

**Time-Critical Concurrence****Area:**

Emory River, Segment Above Above 5, Area 3, Emory River mile 5.1 to 4.8

**Agreement:**

Ash removal activities have been completed in Segment Above Above 5, Area 3, Emory River mile 5.1 to 4.8.

The area was initially identified for removal in the dredge plan addendum by VibeCore drilling as shown in Figure 2, dated 3/15/10. Subsequent to the dredge plan addendum development, the targeted area has been refined using pre-spill and post-spill bathymetric surfaces in addition to the original VibeCore data, Figure 2, dated 4/20/10. The area was further reduced by supplemental VibeCore sampling shown in Figure 6, dated 5/25/10. A three dimensional model of the pre-spill surface was developed using the U.S. Army Corp of Engineers bathymetry and the VibeCore data. The modeled area was mechanically excavated using a barge mounted Komatsu PC-800 excavator equipped with a clamshell bucket. The PC-800 was equipped with a GPS positioning system and software capable of excavating to the modeled pre-spill surface. The control software system was not fully functional during the first excavation effort and a second pass was completed with the system functional. A six foot extension was added during the first excavation pass to extend depth of excavation capability.

Jacobs' field technicians were assigned to each shift and worked with the Severson crew on verifying that native sediments were reached. A coordinate was taken and a note was made at all locations where native sediments were reached. Report notes indicate type of material encountered above the native sediment contact. The locations of the field technicians' notes are plotted on Figure 5. The operators of the mechanical excavation equipment were instructed to minimize dredging of native sediments and authorized to stop short of the targeted surface in areas where full buckets of native sediments had been recovered.

Documentation for completion of the grids includes results of post dredging bathymetric survey, vibecore sediment data and Dredging Daily Reports by Jacobs Field Technicians. Review of the dredging daily reports indicates that removal of ash to native sediments has been accomplished in most areas, excluding those where final bathymetry indicates remaining ash below reachable depth. The completion data has been plotted on the attached Figure 5 to document that all ash recoverable with available equipment has been removed from the area.

The bathymetry dated 5/24 was used to calculate the ash that was not recoverable by this method. Approximately 1,000 cubic yards of modeled ash was calculated to be remaining at a greater depth than the clamshell bucket equipped PC-800 could reach. This ash is located below the 697' elevation and in portions of the area bounded by the pink hue and the field technician notes plotted in Figure 5.

These results indicate that there is no remaining recoverable ash in Segment Above Above 5, Area 3, Emory River mile 5.1 to 4.8.

**Time-Critical Concurrence**

**Attachments:**

- Figure 2, Ash Remaining to Pre-Spill Surface in Segment "Above Above 5", dated 3/15/10
- Figure 2, Ash Remaining to Pre-Spill Surface in Segment Above Above 5, dated 4/20/10
- Figure 2, Bathymetry Removal Areas –Segment AA5, dated 5/21/10
- Bathymetric Survey 05/24, Area 3, dated 5/24/10
- Figure 5, Bathymetric Survey 05/24, Area 3 with Locations of Field Technician Notes, dated 5/25/10
- Segment AA5, Field Technician Dredging Daily Reports – 4/22/10 to 5/19/10
- Figure 6, VibeCore Concurrence Sampling Results – Above Above Segment 5 – Area 3, dated 5/25/10
- VibeCore Sediment Sampling: Data Summary, Logs, and Photos

**Concurrence Comments:**

Julie L Papp  
Jacobs Project Manager

5/26/10  
Date

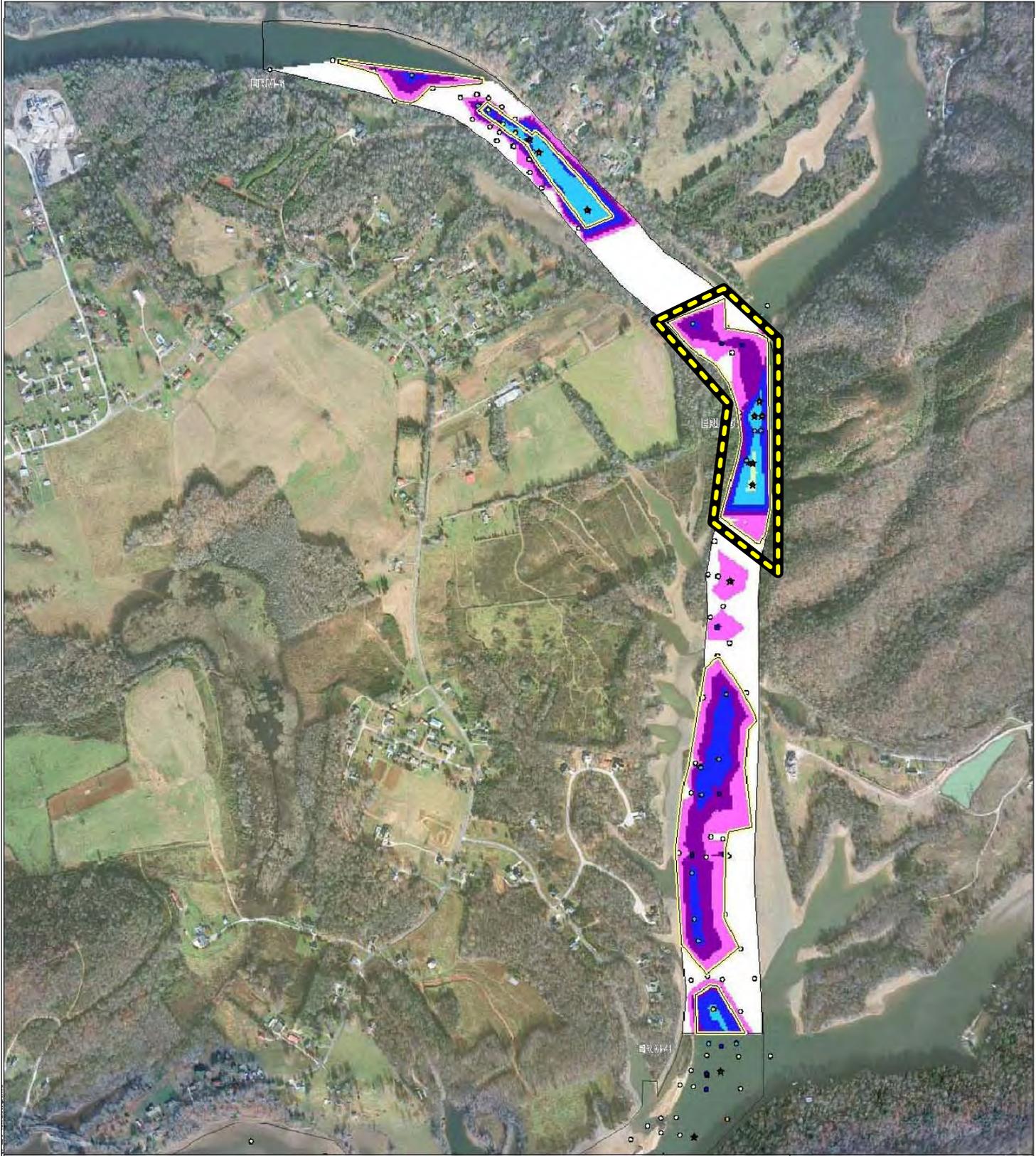
Kathryn Nash  
Tennessee Valley Authority

5/26/10  
Date

Leo Frank  
U. S. Environmental Protection Agency

5/27/10  
Date

consulted w/ TDEC



**Legend**

- Ash Remaining: ~67,803 cy**
- 0 - 1 inch: ~326 cy
  - 1 - 6 inches: ~4,370 cy
  - 6 inches - 1 ft.: ~10,002 cy
  - 1 - 2 ft.: ~26,786 cy
  - 2 - 4 ft.: ~8,838 cy
  - 4 - 6 ft.: ~2,902 cy
- Proposed Dredge Area

**Vibecores Collected as of 02/25/2010, Thickness of Ash (ft.)**

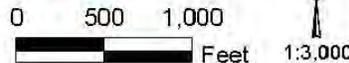
- 0.00 - 0.50
- 0.51 - 1.00
- 1.01 - 2.00
- 2.01 - 3.00
- 3.01 - 4.00
- 4.01 - 5.00
- 5.01 - 6.00

**Vibecores Collected as of 02/25/2010, Minimum Thickness of Ash (ft.) (Bottom of Ash is unknown.)**

- ★ 0.40 - 0.50
- ★ 0.51 - 1.00
- ★ 1.01 - 2.00
- ★ 2.01 - 3.00
- ★ 3.01 - 4.00
- ★ 4.01 - 5.00
- ★ 5.01 - 6.00

Area of Interest

**DRAFT**



**Ash Remaining to Pre-Spill Surface Above Segment 5**

NAME: crobe.rts DATE: 03/15/2010

Figure 2



**Legend**

**Ash Remaining: 37,700 cy**

0 - 1 inch: 260 cy	0.20 - 0.50
1 - 6 inches: 347 cy	0.51 - 1.00
6 inches - 1 ft: 3,580 cy	1.01 - 2.00
1 - 2 ft: 8,442 cy	2.01 - 3.00
2 - 4 ft: 14,142 cy	3.01 - 4.00
4 - 6 ft: 7,569 cy	4.01 - 5.00
6 - 8 ft: 1,730 cy	5.01 - 6.00
8 - 10 ft: 436 cy	6.01 - 8.00
10 - 16 ft: 110 cy	

**Y-coordinates Collected as of 04/21/2010**

**Thickness of Ash (ft)**

0.20 - 0.50

0.51 - 1.00

1.01 - 2.00

2.01 - 3.00

3.01 - 4.00

4.01 - 5.00

5.01 - 6.00

6.01 - 8.00

8.01 - 10.00

10.01 - 16.00

Pre-Spill Bridge Area

**JACOBS**

Area of Interest

**DRAFT**

0 500 1,000  
Feet

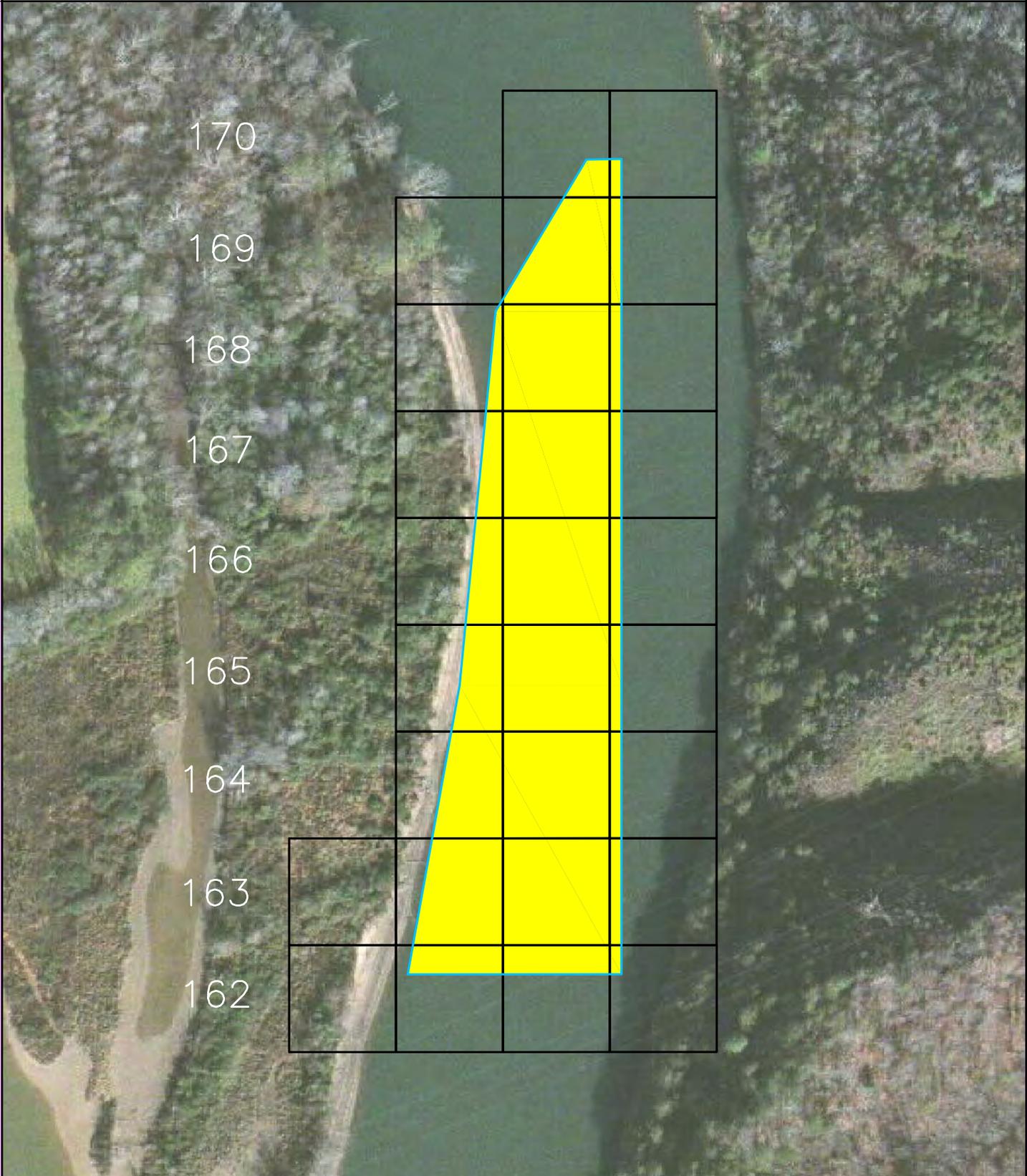


**Ash Remaining to Pre-Spill Surface Above Above Segment 5**

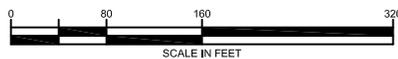
NAME: 010681 DATE: 04/23/10

Figure 2

# Bathymetry Removal Areas - Above Above Segment 5



-  Removed From Plan
-  Phase 2 Dredging Path



**JACOBS**<sup>™</sup>

05/21/10

Figure 2



**Legend**

SURVEY COMPLETED ON 5-24



Proposed Dredge Areas

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Color
1	692.00	694.00	Red
2	694.00	696.00	Light Red
3	696.00	698.00	Pink
4	698.00	700.00	Dark Orange
5	700.00	702.00	Orange
6	702.00	704.00	Light Orange
7	704.00	706.00	Yellow-Orange
8	706.00	708.00	Yellow
9	708.00	710.00	Light Yellow
10	710.00	712.00	Yellow-Green
11	712.00	714.00	Light Green
12	714.00	716.00	Green
13	716.00	718.00	Light Blue-Green
14	718.00	720.00	Blue
15	720.00	722.00	Dark Blue
16	722.00	724.00	Very Dark Blue
17	724.00	726.00	Dark Blue
18	726.00	730.00	Purple
19	730.00	737.07	Dark Purple

**BATHYMETRIC SURVEY  
05/24 AREA 3**

TVA  
DREDGING OF THE EMORY RIVER  
AND ASH PROCESSING  
HARRIMAN, TN



DRAWING

DATE: May 24 2010  
DRAWN BY: DAB  
CHECKED BY: KD  
CAD FILE: 0524\_SEG 7 SURVEY  
SCALE: 1"=50'



**Legend**

SURVEY COMPLETED ON 5-24

 Proposed Dredge Areas

**Elevations Table**

Number	Minimum Elevation	Maximum Elevation	Color
1	692.00	694.00	Red
2	694.00	696.00	Light Red
3	696.00	698.00	Pink
4	698.00	700.00	Orange
5	700.00	702.00	Light Orange
6	702.00	704.00	Yellow-Orange
7	704.00	706.00	Yellow
8	706.00	708.00	Light Yellow
9	708.00	710.00	Yellow-Green
10	710.00	712.00	Light Green
11	712.00	714.00	Green
12	714.00	716.00	Light Green
13	716.00	718.00	Green
14	718.00	720.00	Light Blue
15	720.00	722.00	Blue
16	722.00	724.00	Dark Blue
17	724.00	726.00	Dark Blue
18	726.00	730.00	Purple
19	730.00	737.07	Dark Purple

-  Field Technician Noted Location
-  Field Technician Noted Location (Did not reach native sediment)



**BATHYMETRIC SURVEY  
05/24 AREA 3**

TVA  
DREDGING OF THE EMORY RIVER  
AND ASH PROCESSING  
HARRISMAN, TN

 **SEVENSON  
ENVIRONMENTAL  
SERVICES, INC.**

DRAWING	DATE: 05/25/10
	DRAWN BY: CML
	CHECKED BY:
Figure 5	CAD FILE: 0524_SEG 7 SURVEY
	SCALE:



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 4/22/10 Thursday

WEATHER: Fair 58F

**SAFETY/JSAS REVIEWED:** Attended Dredging Safety meeting @ 19:00

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Arrived @ dredging site @20:15; When we initially oriented ourselves on our map we realized we were @ the end of our cut(area to be dredged); Test buckets were collected and no ash located; So after further discussion with Steve D., we decided to move the dredging operation, to another area to be dredged just down river(shown on our map); Steve and myself used a buoy to define the outermost edge of dredging area; No coordinates were provided for this location; We oriented our buoy from river landmarks and my best recollection of ash locations; Set buoy @21:38; The entire operation was in place and dredging @ 22:09; We landed on large amounts of ash, 1<sup>st</sup> barge of the night full by 23:39(Kudos to SES crew); 1<sup>st</sup> barge was 85% ash / 15% native sediment; Switched barges out @ dredging location @00:25; 2<sup>nd</sup> barge ½ full @1:30; Barge listing @2:15, pumping water; This operation was lead by Steve D., operators- Joe and Gordo, laborer- Chad

**Dredging Observations-** Day shift had informed Steve D. (SES) that we would have to located more ash, as they had been dredging mostly sand; We verified this and decided to move down river, we hit a large mass of ash, in an area that has been identify as a area to be dredged; Dredging production was high tonight, due excellent team work displayed by SES

**Dredging Coordinates, Waypoints and Observations**

30 <sup>th</sup> Waypoint	35° 56.526'N	84° 29.166'W	(21:07)	sand/ native soil
31 <sup>st</sup> Waypoint	35°56.516'N	84°29.160'W	(21:14)	sand/ native soil
32 <sup>nd</sup> Waypoint	35°56.309'N	84°29.938'W	(21:45)	Buoy Coordinates
33 <sup>d</sup> Waypoint	35°56.333'N	84°28.923'W	(22:12)	large amounts of ash (new dredging location)
34 <sup>th</sup> Waypoint			(23:05)	ash/ with minimum amounts of native soil
35 <sup>th</sup> Waypoint	35°56.338'N	84°28.943'W	(1:20)	ash/sand mix

**NONCONFORMING WORK:** (Identify by Contractor and area)

None

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

Layout needed for Mechanical dredging operation (coordinates, buoys, perimeter marked)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 4/23/10

WEATHER: Fair 68F

**SAFETY/JSAS REVIEWED:** Attended Ball field safety @19:00

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – No GPS provided for tonight’s shift; Started dredging @22:52,dredging ash; Barge loaded @00:23; Barge in route for south dock @1:17; Barge arrived @South Dock @2:32; Crew is secured Mechanical dredge and heading in due to inclement weather

Dredging Observations

1<sup>st</sup> barge loaded with 90% ash/ 10% silt; Large amounts of ash still available in dredging location; No GPS, so no coordinates documented

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 4/26/10 Monday

WEATHER: Overcast 53F

**SAFETY/JSAS REVIEWED:** Attend dredge team safety meeting @19:00

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Began Mechanical dredging @20:37; Steve D (SES) said he had been informed that we were dredging on the wrong side of the buoys, and that we needed to dredge the west side of the buoys; This made no sense to me since all your sediment deposits should be located on the east side of the river in this area; So we moved the operation to the west side of the buoys, and we immediately hit native sediment moved again and found ourselves in native sediment; @22:28 we repositioned ourselves (east of buoys) and started dredging ash, we filled the 1<sup>st</sup> barge in this general area by 00:30; Tug lost steering on the way into the dock and additional support was needed to get barge to dock; Unloading barge @3:00; 4 dredges running (w/o McKenzie) @16:20; 5 dredges running @17:49

**Dredging Observations**

Ash is located on the east side of the river along ridge line; anything west of the buoys is native sediment.

**Waypoints and Coordinates**

39 <sup>th</sup> Waypoint	35°56.266N	84°28.926W	(20:49)	No dredging in this area
40 <sup>th</sup> Waypoint	35° 56.254N	84°28.949W	(21:31)	Sand/ native sediment
41 <sup>st</sup> Waypoint	35° 56.255N	84°28.938W	(21:49)	Sand
42 <sup>nd</sup> Waypoint	35°56.257N	84°28.932W	(22:28)	Ash
43 <sup>rd</sup> Waypoint	35°56.261N	84°28.930W	(23:30)	Ash

**Polymer Stations**

Started generator @ST @1:30, switched power from light stand to CAT generator; Acidic Acid pumping @550ml/min @1:37

**NONCONFORMING WORK:** (Identify by Contractor and area)

None

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

Continue Mechanical dredging up river

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 4/27/10 Tuesday

WEATHER: Fair 46F

**SAFETY/JSAS REVIEWED:** Attended Dredge team safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Arrived and dredging @20:16; We continuous dredged ash all night, with minimal repositioning needed; 1<sup>st</sup> barge loaded and on the way to the dock @23:46; 2<sup>nd</sup> barge loaded and south bound @00:52

Dredging Observations- Dredging large amounts of ash in the proximity of the power lines

Waypoints and Coordinates-

126 <sup>th</sup> Waypoint	35°56'13.9"N	84°28'55.4"W	(20:27) Ash
127 <sup>th</sup> Waypoint	35°56'13.3"N	84°28'55.9"W	(20:37) Ash
128 <sup>th</sup> Waypoint	35°56'12.8"N	84°28'60.0"W	(20:49) Ash
129 <sup>th</sup> Waypoint	35°56'12.8"N	84°28'56.6"W	(22:21) Ash
130 <sup>th</sup> Waypoint	35°56'12.3"N	84°28'56.8"W	(22:26) Ash
131 <sup>st</sup> Waypoint	35°56'12.5"N	84°28'56.4"W	(23:46) Ash
132 <sup>nd</sup> Waypoint	35°56'12.6"N	84°28'56.5"W	(00:38)Ash

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 4/28/10 Wednesday

WEATHER: Fair 44F

**SAFETY/JSAS REVIEWED:** Attended Dredge Team safety meeting @19:00

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Arrived @ dredging site @20:02; Consistently stayed in ash throughout the night; Continued to pivot and swing to cover entire area; 1<sup>st</sup> barge loaded by 22:57; 2<sup>nd</sup> barge full by 1:40; Three barges @ North Dock @2:20 being unloaded;

Dredging Observations- Day Shift could possibly have to locate another dredging location, as we are nearing the end of our cut. (as shown on maps)

**Waypoints and Coordinates**

- 145<sup>th</sup> Waypoint 35°56'11.3"N 84°28'55.3" day shift ending location (20:05); Dredging Ash
  - 146<sup>th</sup> Waypoint 35°56'11.6"N 84°28'55.6" pivot move (20:45); Dredging Ash
  - 147<sup>th</sup> Waypoint 35°56'11.8"N 84°28'55.6" moved south (21:34); Dredging Ash
  - 148<sup>th</sup> Waypoint 35°56'11.3"N 84°28'55.8" swinging east toward shore (22:11); Dredging Ash
  - 149<sup>th</sup> and 150<sup>th</sup> Waypoint 35°56'11.2"N 84°28'55.6" (22:39) moved south; Dredging Ash
  - 151<sup>st</sup> Waypoint 35°56'11.3"N 84°28'55.4" (23:46) swung toward east shoreline; Dredging Ash
  - 152<sup>nd</sup> Waypoint 35°56'10.9"N 84°28'55.5" (00:09) unable to reach material
  - 153<sup>rd</sup> Waypoint 35°56'10.8"N 84°28'55.6" (00:10) moved south; Dredging Ash
  - 154<sup>th</sup> Waypoint 35°56'11.2"N 84°28'55.5" (00:38) swung west ; Dredging Ash
  - 155<sup>th</sup> Waypoint 35°56'11.2"N 84°28'55.9" (00:56) swung west; Dredging Ash
  - 156<sup>th</sup> Waypoint 35°56'11.4"N 84°28'55.4" (1:24) moved into area where no waypoints, have been collected; Dredging Ash
- 2<sup>nd</sup> Barge=**Bold**

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 4/29/10 Thursday

WEATHER: Fair 54F

**SAFETY/JSAS REVIEWED:** Attended Dredge team safety meeting @ 19:00

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Arrived @ dredging location @ 21:10; dredging was under way; @ first glance into barge revealed a pile of rocks @ 21:12; Dredging large amounts of organics and minimal amounts of ash from 21:10-23:18; Barge Full @ 1:38; 1<sup>st</sup> barge Arrived @ North Dock @ 2:33; Nearing the end of this cut

Dredging Observations- Minimal amounts of reachable material left in this area

**Waypoints and Coordinates**

175 <sup>th</sup> Waypoint	35°56.147" N	84°28.939" W	(21:39)	95% Rocks/ 5% Ash
176 <sup>th</sup> Waypoint	35°56.143" N	84°28.939" W	(22:24)	Ash/ Silt
177 <sup>th</sup> Waypoint	35°56.134" N	84°28.941" W	(23:04)	No ash
178 <sup>th</sup> Waypoint	35°56.134" N	84°28.947" W	(23:18)	Ash
179 <sup>th</sup> Waypoint	35°56.131" N	84°28.949" W	(23:49)	Rocks, Silt/Ash mixture
180 <sup>th</sup> Waypoint	35°56.130" N	84°28.952" W	(23:54)	Ash
181 <sup>st</sup> Waypoint	35°56.136" N	84°28.954" W	(00:37)	Rocks/sand mixture
182 <sup>nd</sup> Waypoint	35°56.117" N	84°28.949" W	(00:57)	Ash

**NONCONFORMING WORK:** (Identify by Contractor and area)

None

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

Need to relocate soon to new dredging site; SES wants day shift to layout new dredging locations

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



## Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

**REPORT DATE & DAY OF WEEK:** 4/30/10 Friday

**WEATHER:** Fair 64F

**SAFETY/JSAS REVIEWED:** Attended Dredge team safety meeting @ 19:00

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Arrived @ dredging location 21:10: 1<sup>st</sup> barge full on arrival appears to be 80%ash/ 20%sand; Empty barge in position and dredging @21:39; Dredging more sand than ash, SES operator was instructed to grab ½ buckets instead of full buckets to keep from over dredging; ½ buckets helped to minimize over dredging; 2<sup>nd</sup> Barge full @1:14; We used map provided by Jacobs, trying to locate larger quantities of ash; This area will require more time and patience to keep from over dredging; Production may suffer due to moving and dipping ½ buckets

**Dredging Observations-** Ash located in this area (SES-7B), appears to be dispersed thinly throughout this cut

Waypoints and Coordinates

229 <sup>nd</sup> Waypoint	35°55' 46.7" 84°29' 00.2"	(18:02)	1"-5" ash on top of sand
230 <sup>th</sup> Waypoint	35°55' 46.4" 84°29' 00.0"	(22:33)	Sand
231 <sup>st</sup> Waypoint	35°55' 46.4" 84°29' 59.6"	(22:45)	minimum amounts of ash/ sand
232 <sup>nd</sup> Waypoint	35°55' 47.0" 84°29' 59.4"	(23:05)	minimum amounts of ash/ sand
233 <sup>rd</sup> Waypoint	35°55' 46.1" 84°29' 59.1"	(23:33)	minimum amounts of ash/ sand
234 <sup>th</sup> Waypoint	35°55' 46.3" 84°29' 59.8"	(23:40)	minimum amounts of ash/ sand
235 <sup>th</sup> Waypoint	35°55' 46.9" 84°29' 59.8"	(23:44)	1"-5"Ash/ sand (operator informed not dig full buckets, by SES)
236 <sup>th</sup> Waypoint	35°55' 46.2" 84°29' 59.7"	(23:58)	1'-3" Ash/ Sand (Dipping half buckets to min. over dredging)
237 <sup>th</sup> Waypoint	35°55' 45.5" 84°29' 00.2"	(00:57)	1"-3"Ash/ Sand (Dipping half buckets to min. over dredging)

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

I plan to try to convert some coordinates from Vibe core data, to assist in locating larger quantities of ash; If nothing else we will have a good starting point



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 5/1/10

WEATHER: Heavy Rain 66F

**SAFETY/JSAS REVIEWED:** Attended dredge team meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Stand down due to severe weather; Weather has cleared for work; Securing dredges and barges @23:15; Moving tug and anchor moving barge to South Dock @00:50;

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 5/3/10

WEATHER: Few Clouds 63F

**SAFETY/JSAS REVIEWED:**

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – River Operations shut down due to high water

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 5/4/10 Tuesday

WEATHER: Fair 62F

**SAFETY/JSAS REVIEWED:**

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Etrac is working on PC800; Mechanical dredging with the Etrac system is good, but we are only as good as the map provided; Continue to have periods of over dredging even with the Etrac; Started dredging @21:02; 1<sup>ST</sup> Barge full @23:25; Still dredging while barge is in route to the North Dock; Barge arrived @ North dock @00:12; Mechanical Dredging crew should fill 3 barges if no problems arise; Shirley dredging @1:29; Dipping in RD; Unloading 2<sup>nd</sup> Barge @2:48

Waypoints and Coordinates

260<sup>th</sup> Waypoint 35°55' 51.3"N 84°29' 00.8"W (21:08) Ash/sand  
261<sup>st</sup> Waypoint 35°55'51.0"N 84°29' 00.5" W (22:08) Ash/ Sand

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 5/5/10 Wednesday

WEATHER: Fair 67F

**SAFETY/JSAS REVIEWED:** Attend dredge team safety meeting @19:00

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Arrived @dredging location @20:02; Crew had to pump water out of barge for first 2 ½ hours; Barge had multiple problems; dredging @22:29 1"-3"Ash/Sand; Clam Shell bucket broke @23:24, minor hydraulic leak ; Bucket broke into barge so the hydraulic leak was contained with booms and diapers, no hydraulic fluid in water; PC800 in route to North Dock @2:33; 5 dredges running @17:05 and 1:54; 4 dredges running (w/o Kylee) @17:52

Rim Trenches . Dipping in Rd @17:05, 17:52(2 excavators), and 1:54

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

The larger barge in my opinion should be taken out of service due to a large hole in holding tank and side rails are almost completely knocked off; The result is a large amount of water must be pumped to use this barge; Also you lose material back into river due to damaged side rails; Barge nearly had water up on the deck when we arrived to the dredging location;

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 5/6/10 Thursday

WEATHER: Fair 68F

**SAFETY/JSAS REVIEWED:** Attended dredge team safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Mechanical Dredging – Inspected PC800 for leaks before work began, no leaks detected; Dredging consisted of large amounts of sand/1”-3” ash; It was a slow night I instructed them to move on several occasions and they agreed; We used the map on the PC800 as guidance; 1<sup>st</sup> barge arrived @ North Dock @00:14; 5 dredges running @16:52, 1:31, and 2:40; 4 dredges running (w/o Shirley) @17:32;

Rim and Sluice Trenches . No activity on the RD @ 16:52 and 17:32; Dipping in RD @1:31 and 2:40

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

The PC800 Etrac system either needs a longer boom, longer stick or draft attribute changed to account for the extension; Computer displays the bucket not touch the bottom even though the operator has his bucket on the river floor; So when you dip a bucket of ash it does not register this on the map

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 5/7/10 Friday

WEATHER: Overcast 77F

**SAFETY/JSAS REVIEWED:** Attended Dredge team safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Barge arriving @ North Dock @18:15(Dayshift); Barge appears contains 90% sand/ 10% ash; Aquarius barge arriving @North Dock @19:22; Barge contains 70% sand/ 30%ash; In total 3 barges @ North Dock @19:25 (2 full) ; Dredging @21:03 (nightshift); 1<sup>st</sup> barge full @00:14; barge arrived @00:46; North Dock is congested and could slow the unloading of barges; 4 dredges running (w/o McKenzie) @16:59;

Dredging observations- Hypack is working on the PC800 and we used this as guidance throughout the night; Consistently staying in ash but continue to dredge large amounts of sand

Waypoints and Coordinates

279 <sup>th</sup> Waypoint	35°55'47.9"	84°28'59.8"	(21:08)	1"-3"ash/ sand
280 <sup>th</sup> Waypoint	35°55'46.6"	84°29' 00.8"	(22:11)	3"-5"ash/ sand
281 <sup>st</sup> Waypoint	35°55'46.7"	84°29'00.8"	(22:47)	3-5" ash/ sand
282 <sup>nd</sup> Waypoint	35°55' 46.5"	84°29' 00.6"	(23:17)	1"-3" ash/sand
283 <sup>rd</sup> Waypoint	35°55'46.3"	84°29' 00.7"	(23:47)	1" ash/ sand

Stand down @3:03 and

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 5/10/10 Monday

WEATHER: Few Clouds 62F

**SAFETY/JSAS REVIEWED:** Attended dredge team safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Instructed by Bob Lewis that Aquarius is my priority; 800 barge dredging @10:25; dredging minimal amounts of ash majority of material being sand/silt; 800 barge is using Etrac as guidance; Leaving 800 barge in route to Aquarius @11:46; Arrived @ Aquarius and they are dredging Ash; Aquarius had complete one cell before I arrived; Down for Mechanical issues @13:39-14:07; Moving barge around @13:58(to load other end); Barge 95% full and another barge in route @16:02; Aquarius has large amounts of ash available in current dredging location

Dredging Observations- **Aquarius** is outfitted with GPS and a map overlay; benchmark is collected before work begins to ensure elevation accuracy; Cable is marked so the operator has an idea of the elevation he is dredging; **800 Barge** is over dredging not sure of accuracy of the current bathymetry

Aquarius Coordinates

35°56.6228N 84°29.2639E @12:00

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 5/12/10

WEATHER: Few Clouds 81F

**SAFETY/JSAS REVIEWED:** Attended dredge team safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Mechanical dredges are in ash, no issues with over dredging; 4 dredges running (w/o Kylee) @6:19; 3 dredges running (w/o Kylee and Addison) @7:53 and 15:01; Arrived @ Aquarius dredging location @10:35; Aquarius is dredging large amounts of ash with minimal native sediment; Barge 501 partially full on arrival; Prepping for night shift (light plants, etc) @11:15; Mary Lou headed for the North dock @12:50; Barge 501 full @ 14:15, waiting on another barge to continue loading; Aquarius is allowing barges to draft 7' before considered full

Aquarius Coordinates

2447490.60 E 568329.67 N (on arrival and on my departure)

Rim and Sluice Trenches . Dipping in RD @7:49 and 9:03; Dipping in RD and ST @15:01 (clam shell)

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 5/11/10 Tuesday

WEATHER: Overcast 65F

**SAFETY/JSAS REVIEWED:** Attended dredge team safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Arrived @ Aquarius dredging site @8:35; Partial barge loaded on arrival (S984B); Dredging ash all day with minimal amounts of sand or sediment ; Moved south @11:00; Located in cell H-20 a11:15; barge S894B is full @12:45; barge 501 in place and dredging @12:55; barge 501 is taking on water due to a brace completely torn off; Aquarius is only going to load the stern of the barge, while waiting on further notice to continue loading; SES 800 barge being unloaded @15:37, 90%sand/silt /10%ash

Aquarius Coordinates

Starting Coordinates- 2447519.0E 568308.0N dredging Ash until elevation and sand were located  
Cell H-20- 2447518.0E 568277.0N dredging Ash

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

501 barge is taking on water @ the bow, crew is loading the stern and wait on further notice to load the entire barge

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 5/13/10 Thursday

WEATHER: Few clouds 85F

**SAFETY/JSAS REVIEWED:** Attended dredge team safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Mechanical Dredging – arrived @ dredging site @8:15; Maintenance on equipment @8:15; Barge S894B is full @10:02, and waiting on another barge; barge 504 arrived @11:55; S894S barge left for dock @12:27; Aquarius was dredging ash all day with periods of debris removal (rock and logs); Barge 501 arrived @14:04; Moving south @14:16 (cell H-28, coordinates provided below); left for dock @15:06, barge 504 1/3 full

Dredging Coordinates

Starting- 568140.4N 2447669.7E (10:02) Ash

Final- 568118.32N 2447702.6 (14:49) Ash w/ native sand in center of channel

Dredging

4 dredges running (w/o Kylee) @6:20

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 5/14/10

WEATHER: Partly Cloudy 86F

**SAFETY/JSAS REVIEWED:** Attended dredge team and Aquarius safety meetings

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Aquarius Dredging – Aquarius is digging in ash, but has a large amount of down time due to no barge available to be loaded; Night shift completed 10 cells and has made a large amount of progress; Moving buoys @8:00; Barge 501 is going to be taken out of service for repairs, a hole has caused 4' ash/water to enter the barge; Loading barge 504 @ 8:46, barge is loaded @10:38; Waiting on TVA pilot he arrives @12:30, and leaves with barge 504; Misc maintenance @14:25; Empty barge has not arrived by my departure @14:35; Barge S894B is @ the North Dock still being unloaded @15:15 (this is the barge we were waiting for)

Aquarius Coordinates

568029.8N 2447755.8E (8:46) dredging Ash

Mechanical Dredging

4 dredges running w/o Addison @6:19

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

501 barge is taking on Ash/water

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 5/14/10

WEATHER: Partly Cloudy 83F

**SAFETY/JSAS REVIEWED:** Attended dredge team and Aquarius safety meetings

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Aquarius Dredging – S894B barge @ North Dock (6:15); 504 barge 2/3 full @South Dock (6:24); TVA barge full and on the way to the North Dock @8:49; Empty TVA barge arriving to dredging location @10:50; dredging 3"-5"ash/sand all day; continuously having to pump water of TVA barge 827724(3 pumps); barge nearly full @14:45; Barge 501 still @ dredging site waiting before heading South for repairs

Aquarius Coordinates

567994.95N 2447757.05E (8:50) 3"-5" ash/sand

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

TVA barge's taken on large amounts of water

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 5/16/10

WEATHER: Overcast 71F

**SAFETY/JSAS REVIEWED:** Attended dredge team and Aquarius safety meetings

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Aquarius Dredging – S894B barge @ North Dock (6:15); Working on clam shell bucket @7:45; Dredging ash @9:28; Loading barge 504; Barge 501 headed south not loaded @10:25; Barge 504 half full when shut down occurred @13:00

SES dredging-  
3 dredges running @14:15

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

TVA and Aquarius barge's taken on large amounts of water/ash

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

Aquarius is 250' from completing current dredging map; this will need to be monitored because they are finding less amounts of ash.

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 5/17/10

WEATHER: Light rain 67F

**SAFETY/JSAS REVIEWED:** Attended dredge team and Aquarius safety meeting @7:00

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Aquarius Dredging – Aquarius will begin in the same location as left off from 5-16, night crew never moved; Locating more and more ash the closer we move toward the shore (North); ash being dredged is just outside of colored boxes on our map; TVA barge #218689 half full on arrival; maintenance on crane (painting line, greasing, and refueling); TVA barge #218689 headed South to be unloaded @10:30; barge is filled with 90%ash/10%organics; 12 colored cells left to be dredged; Aquarius crew was needed for skimmer wall pick ; TVA barge#218689 unloaded @15:35

Aquarius Coordinates-

Moved @10:38- 567935.26N 2447874.51E

SES Dredging- 3 dredges running @6:15 and 13:00; McKenzie was dredging clay/sand mixture both times

Sluice and Rim Trench- Lime/ash mixing on drag line road @12:59

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

Stand down @14:40; Aquarius barge 504 listening 4'-5' @ North Dock

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 5/18/10 Tuesday

WEATHER: Partly Cloudy 73F

**SAFETY/JSAS REVIEWED:** Attended dredge team and Aquarius safety meeting.

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Aquarius Dredging – Aquarius dredging ash @7:45; Loading barge 504; Ten colored cells to complete dredging in this area; colored cells have min amounts of ash in them, just outside the cells is where most of the ash is being located; Barge 504 loaded in route to the North Dock @11:35; Safety inspection @14:00; Crew waiting on barge to load when I departed @14:25

Aquarius Coordinates-  
567838.68N 2447922.87E (10:55) dredging ash in this location

SES dredging  
4 dredges running @6:07 and 14:39; dredging ash both times pipes were observed

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**  
**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 5/18/10 Wednesday

WEATHER: Overcast 69F

**SAFETY/JSAS REVIEWED:** Attended dredge team and Aquarius safety meetings

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

SES Mechanical Dredging – Arrived @800 barge @9:27; Barge #82774 is 60% full on arrival (10%Ash/ 90%sand); Dredging mostly sand with organics; Closed out “neck of the guitar section”; Barge #82774 is headed toward the North Dock @11:06; Barge #82739 is available to be loaded, but SES needs to move north and locate more ash; SES cleaned up all the areas the bathymetry was instructing them to dredge and are ready to head north @11:27; SES (Kate) is working the 800 computer system does not appear like anymore dredging will take place today @13:45; 1 barge loaded and @ the dock on 5/18/10; TVA barge was in route to the 800 barge @14:15

SES Mechanical Dredging Coordinates-

Starting-	561313.0N	2449130E	(9:30)	sand
	561267.9N	2449027 E	(9:45)	sand/organics
	561190.3N	2449119E	(10:18)	sand/organics
	561184.5N	2449127E	(10:37)	sand/ organics
	561192.2N	2449160E	(10:52)	1”ash/sand

**1 barge loaded by 13:45, and not loading when I departed**

SES Dredging- 4 dredges running @6:07

Aquarius- Aquarius has moved their dredging operation into the “guitar area”; Information is needed before they can dredge this area. (Maps, coordinates, etc.)

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 5/20/10 Thursday

WEATHER: Fair 76F

**SAFETY/JSAS REVIEWED:** Attended dredge team safety meeting @7:00

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Aquarius Dredging – Crane barge in route to dredging location cell (D-115); Arrived @ dredging location @11:24; Aquarius is dredging ash and a few rocks, no sand or silt noticed; Loading barge 504, barge was not full by my departure @14:45; Crew was informed to send this barge to the South dock @ the end of the shift; Crew will probably still be located in cell D-115 @ the end of the day. **1 load will be deliver by the end of the day**

Aquarius Coordinates- 559755.3N 2448195.3E (11:20) dredging Ash cell - D115

SES Mechanical Dredging- Arrived @800 barge @8:54; SES had not put a bucket in the water by 10:50; Waiting on a tug to move them to a new location; passed the tug while I was in route to the Crane barge @11:00; No coordinates available; **0 loads have been deliver to the North dock by 15:07**

Hydraulic dredging- 5 dredges running @6:12

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 5/8/10 Saturday

WEATHER: Fair 53F

**SAFETY/JSAS REVIEWED:** Attended dredge team safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

Dredging – Mechanical dredging started @21:21; SES is using the hypack system for guidance to locate ash; Not finding as much ash as the Bathymetry map shows(maybe the map need to be updated?); SES is doing their best they can to prevent large amounts of over dredging; 4 dredges running(w/o Shirley) @16:36 and 17:43

Waypoints and Coordinates

285 <sup>th</sup> Waypoint	35°55'46.1"	84°29'1.2"	(21:14)	1"-3"ash/ sand
286 <sup>th</sup> Waypoint	35°55'46.1"	84°29'.8"	(21:38)	1"ash/ sand
287 <sup>th</sup> Waypoint	35°55'45.6"	84°29'.2"	(22:31)	1"ash/ sand
288 <sup>th</sup> Waypoint	35°55'45.5"	84°29'.6"	(23:08)	1"ash/ sand

Rim and Sluice Trenches . No Activity @16:36 and 17:43

**NONCONFORMING WORK:** (Identify by Contractor and area)

none

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**

**DATE:**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 04/23/10 Friday 6AM-4PM WEATHER: 70 p.cloudy

**SAFETY/JSAS REVIEWED:** I attended the dredge crew safety meeting. Signed the mechanical dredge crew SPA.

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** 08:00 arrive at barge. 08:15 Etrex programmer came on board.

Loc. #1 09:00 N35.5619.6 W84.2856.1 in 100% ash

Loc. #2 09:23 N35.5617.1 W84.2854.7 work resumed on guidance system at this time. 10:49 began dredging at this loc. In ash. 11:01 stopped again by Etrex programmer. 12:01 back dredging same location in ash area completed at 12:07.

Loc. #3 12:07 N35.5617.1 W84.2855.3 in 100% ash filled 1<sup>st</sup> barge at 12:33 heading to dock for unloading.

14:45 left barge for the dock passed empty barge coming up river. I informed stand in foreman Jeff to remain in this area and swing side to side pivoting off of the rear spud until they reached no ash and then move south at 10-15 ft. increments. And repeat the swing motion.

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:04/23/10**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 04/26/10 Monday 6AM-4PM WEATHER: 56 overcast

SAFETY/JSAS REVIEWED: I attended the dredge crew safety meeting.

VISITORS: (Identify by name, affiliation and purpose of visit)

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN: (Identify activities by Contractor and area)

**Mechanical dredging:** Mechanical dredge barge did not leave dock until 13:15. Crew was repairing spud cable and assembling extension onto pc 800 clam bucket as well as other maintenance. I did not board with them today.

13:43 all five dredges are in ash

15:00 all dredges except for McKenzie are running and in ash.

VERBAL INSTRUCTIONS GIVEN OR RECEIVED: (Identify person instructions were given to or received from)

ISSUES: (Specify if assistance is needed to resolve issue)

PLANNED ACTIVITIES (Identify activities by Contractor and area)

SUBMITTED BY:



DATE: 04/26/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

**REPORT DATE & DAY OF WEEK:** 04/27/10 Tuesday 6AM-4PM **WEATHER:** 50's rain

**SAFETY/JSAS REVIEWED:** I attended the dredge crew safety meeting.

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** 08:30 arrived at excavator barge.  
08:42 Loc. #1 N35.5614.5 W84.2856.1 in ash dredged to native sediment  
09:09 Loc. #2 N35.5614.2 W84.2855.7 in ash dredged to native sediment. New tug arrived, three sisters heading to dock to bring an empty barge. New tug guiding excavator barge drifted bow to east shore in this location in ash as well. Moved back to initial location.  
10:02 Loc. #3 N35.5613.6 W84.2855.8 in ash in this location 10:18 drifted bow towards shore again. N35.5613.5 W84.2855.9 New captain getting used to positioning barge. Returned to initial loc. Dredged to natives.  
10:49 Loc.#5 N35.5613.7 W84.2855.9 in ash  
11:07 empty barge arrives 1<sup>st</sup> barge returning for unload.  
11:20 still in ash at previous loc.  
12:49 2<sup>nd</sup> barge full waiting for empty barge.  
13:30 left with Mike Goretski for dock.  
  
14:43 all five dredges pumping McKenzie in clay  
15:00 all dredges except for McKenzie are running and in ash. McKenzie still in clay

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:**04/27/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 04/28/10 Wednesday 6AM-4PM WEATHER: 70 p. cloudy

**SAFETY/JSAS REVIEWED:** I attended the dredge crew safety meeting. Signed SPA

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** 07:50 arrive at excavator barge. Crew reattaching float to boom arm.  
Loc. #1 08:55 N35.5612.1 W84.2855.5 100% ash in this loc. 09:05 barge drifted toward E. shore at loc. N35.5612.8 W84.2856.0 repositioned to Loc. #1 in ash dug to native sediment. 09:51 empty barge arrives crew ties to shore around the mouth of little Emory.  
Loc. #2 11:00 N35.5612.5 W84.2856.3 100% ash  
Loc. #3 11:40 N35.5612.8 W84.2855.6 100% ash  
Loc. #4 12:29 N35.5612.9 W84.2855.6 no ash  
Loc #5 12:39 N35.5613.1 W84.2856.0 100% ash  
Loc. #6 13:10 N35.5612.6 W84.2855.6 ash dredged to native sediment  
Loc. #7 13:25 N35.5612.0 W84.2855.4 100% ash crew remained in this location at 14:00 when I left the barge for the dock. A second empty barge arrived around 13:00 and is tied up against the first barge.

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

Crew utilized the large barge today. The barge was listing several feet to the starboard side when I returned to the dock with Mike Goretski. The crew was pumping water from the hull earlier in the day. I feel the cons of this barge out weigh the pros. It is very difficult to navigate and to position while dredging. The tall sides make it impossible to see what material is being dredged and also the quantity of material in the barge. The crew has to climb their way up onto the barge which is unsafe.

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:04/28/10**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

**REPORT DATE & DAY OF WEEK:** 04/29/10 Thursday 6AM-4PM **WEATHER:** 70 p. cloudy

**SAFETY/JSAS REVIEWED:** I attended the Jacobs safety meeting.

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** 09:30 arrive at excavator barge. Tech. working on guidance system.

10:27 Loc. #1 N35.56.163 W84.28.943 in ash

10:58 Loc. #2 N35.56.153 W84.28.943 in ash

11:12 Loc. #3 No coordinates given moved 10-15 ft. S&W

11:30 Loc #4 N35.56.156 W84.28.942 in ash

11:46 Loc. #5 N35.56.153 W84.28.943 in ash same coordinates as Loc. #2 must be bad reading we were south of loc. #2 I will check time stamp on SES GPS tomorrow to verify coordinates at this time.

All locations were dredged to native sediment. Crew was almost done loading first scow when I left at 12:15.

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:**04/29/10



# Kingston Ash Recovery Project Dredging and Ash Processing Daily Report

REPORT DATE & DAY OF WEEK: 04/30/10 Friday 6AM-4PM WEATHER: 78 p. cloudy

SAFETY/JSAS REVIEWED: I attended the dredge crew safety meeting.

VISITORS: (Identify by name, affiliation and purpose of visit)

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN: (Identify activities by Contractor and area)

**Mechanical dredging:** 08:00 Arrive at excavator barge. Loc. 1-9 are in decimal degrees and 10-19 are in degrees min. sec.

Loc. #1 08:27 N35.56.113 W84.28.951 ash

Loc. #2 08:47 N35.56.113 W84.28.950 small amount of ash/rocks

Loc. #3 09:09 N35.56.113 W84.28.951 small amounts of ash coordinates of 1-3 are same we did move 10-15 ft. south gps not accurate.

Loc. #4 09:29 N35.56.112 W84.28.953 ash/rock

Loc. #5 09:59 N35.56.105 W84.28.959 ash/rock

Loc. #6 10:16 N35.56.098 W84.28.961 minimal ash and 1 catfish released unharmed.

Loc. #7 10:25 N35.56.089 W84.28.965 no ash heading south toward next area.

Loc. #8 10:39 N35.56.064 W84.28.976 sand

Loc. #9 10:48 N35.56.063 W84.28.977 silt /sand

Loc. #10 11:03 N35.55.57.2 W84.28.58.5 85% sand 15% ash

Loc. #11 11:18 N35.55.54.3 W84.28.59.6 sand

Loc. #12 11:23 N35.55.54.2 W84.28.59.6 small amount of ash mostly sand

11:45 Guidance system techs. On board

Loc. #13 12:58 N35.55.53.3 W84.28.58.4 silt very little ash

Loc. #14 13:05 N35.55.52.9 W84.28.58.0 silt /organics

Loc. #15 13:13 N35.55.52.2 W84.28.59.0 couple inches of ash mostly sand

Loc. #16 13:18 N35.55.51.7 W84.28.59.2 mostly sand small amount of ash

Loc. #17 13:24 N35.55.51.5 W84.28.59.1 mostly sand small amounts of ash

Loc. #18 13:38 N35.55.30.3 W84.28.59.4 couple inches of ash mostly sand

Loc. #19 13:49 N35.55.48.8 W84.28.59.8 60% sand 40% ash. Ash in center channel at this location 1ft deep according to RSI vibe core crew at this time.

Loc. #20 14:04 N35.55.47.9 W84.28.59.7 60% sand 40% ash.

Advised Brad with SES to remain center channel and swing side to side as they move south. Guidance system still not working 1<sup>st</sup>. scow left for unload at around 11:00 2<sup>nd</sup>. Scow almost fully loaded when I left for the dock at around 14:15

VERBAL INSTRUCTIONS GIVEN OR RECEIVED: (Identify person instructions were given to or received from)

ISSUES: (Specify if assistance is needed to resolve issue)

PLANNED ACTIVITIES (Identify activities by Contractor and area)

SUBMITTED BY:



DATE:04/30/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/01/10 Saturday 6AM-4PM WEATHER: 70 rain

SAFETY/JSAS REVIEWED: I attended the dredge crew safety meeting. Signed spa

VISITORS: (Identify by name, affiliation and purpose of visit)

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN: (Identify activities by Contractor and area)

**Mechanical dredging:** 07:55 arrive at excavator barge. Crew reattaching floats to boom arms left unattached by night crew.

Loc. #1 08:37 N35.55.46.1 W84.28.59.9 small amounts of ash mostly sand

Loc. #2 08:55 N35.55.45.8 W84.28.59.6 Silt / organics

Loc. #3 09:06 N35.55.45.7 W84.28.59.7 silt/sand minimal ash

Loc. #4 09:19 N35.55.45.3 W84.28.59.8 minimal ash/sand

Loc.#5 09:42 N35.55.45.2 W84.29.00.0 3-6" ash/sand

Loc. #6 10:08 N35.55.45.3 W84.29.00.1 3-6" ash/sand

Loc. #7 10:34 N35.55.45.3 W84.29.00.5 3-6" ash/sand

Loc. #8 10:58 N35.55.45.3 W84.29.00.6 3-6" ash/sand

11:18 first scow heading to dock for unload.

11:30 heading to dock thunder storms.

13:52, 14:35 all five dredges pumping in ash.

VERBAL INSTRUCTIONS GIVEN OR RECEIVED: (Identify person instructions were given to or received from)

ISSUES: (Specify if assistance is needed to resolve issue)

. On our way to the dock we noticed first scow and tug were run aground on the sand bar and assisted them. Safely pulled them off of the bar and they made it back to the dock.

PLANNED ACTIVITIES (Identify activities by Contractor and area)

SUBMITTED BY:



DATE:05/01/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/03/10 Monday 6AM-4PM WEATHER: 75 p. cloudy

SAFETY/JSAS REVIEWED:

VISITORS: (Identify by name, affiliation and purpose of visit)

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN: (Identify activities by Contractor and area)

Mechanical dredging: No dredging due to high river flow

Some dipping in rim ditch.

TVA 10" ash pond dredge ran to rim ditch part of the day.

VERBAL INSTRUCTIONS GIVEN OR RECEIVED: (Identify person instructions were given to or received from)

ISSUES: (Specify if assistance is needed to resolve issue)

PLANNED ACTIVITIES (Identify activities by Contractor and area)

SUBMITTED BY:



DATE:05/03/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/04/10 Tuesday 6AM-4PM WEATHER: 80 clear

**SAFETY/JSAS REVIEWED:** attended dredge crew safety meeting. Signed spa excavator barge crew

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:**

Loc #1 09:15 N35.55.51.7 W84.29.00.4 60% sand 40% ash

Loc #2 09:40 N35.55.51.7 W84.29.00.6 mostly sand some ash

Loc #3 10:13 N35.55.51.3 W84.29.00.6 mostly sand minimal ash

Scow full. Left scow at barge cannot return to dock for unload. CP has haul road shut down from north dock. No empty barges, crew returns to dock.

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

On our way to the dock we were asked by Jesse SES to pull Shirley's dredge pipe anchor to him so he could push the dredge pipe towards the bank of the rookery island. While we were pulling the anchor we noticed the small boat that Jesse and Cody were on was bow down and the stern was all the way in the air. We unhooked the anchor and headed their way to assist. As we got close the boat righted itself but had already taken on too much water the boat quickly capsized and Jesse and Cody both escaped unharmed. We pulled up and deployed a throw ring to Cody. Severson's fuel boat did the same for Jesse. We then retrieved the fuel tank. I reported the incident to Steve Arington at 11:00.

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:05/04/10**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

**REPORT DATE & DAY OF WEEK:** 05/05/10 Wednesday 6AM-4PM **WEATHER:** 80 clear

**SAFETY/JSAS REVIEWED:** attended dredge crew safety meeting. Discussed yesterday's incident and reminded everyone to have float plans filled out.

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** No mechanical dredging today crew is helping Aquarius move up river.

**Dredging:** 08:21 Kylee, Addison pumping in ash.

09:46 Kylee, Addison still in ash Adelyn, McKenzie, Shirley off. TVA 10" pumping from ash pond.

11:14 Kylee, Addison still in ash.

11:29 Shirley started and in ash.

11:36 McKenzie started up and in ash.

12:47 4 dredges in ash no Adelyn, TVA 10" still pumping

13:08 Adelyn back pumping in ash.

13:41 4 dredges pumping no McKenzie. All 4 in ash.

15:06 4 dredges in ash no McKenzie.

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:**05/05/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/06/10 Thursday 6AM-4PM WEATHER: 80 clear

SAFETY/JSAS REVIEWED: attended dredge crew safety meeting

VISITORS: (Identify by name, affiliation and purpose of visit)

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN: (Identify activities by Contractor and area)

Mechanical dredging: No mechanical dredging today

**Aquarius Crane:** Crew started dredging around 13:30. Positioned at the northern most cell on 25' grid map and are finding nothing but sand. I arrived at 13:50 and advised them to move south to the next two cells and position themselves in the N. midpoint between the cells as they move down and swing side to side as to reach the edge of two cells.

14:08 we positioned ourselves at the edge of the next two cells. Crew took scoops from all across the two cells and is still in sand. Advised to continue moving south to the next pair of cells.

14:24 positioned at next spot repeated same steps and still in sand. I informed crane operator to continue moving south following the same procedure and they may not hit any ash until they reach the fifth row of cells from the north as this is where we started to find ash with the PC 800 barge.

14:50 I left for the dock.

VERBAL INSTRUCTIONS GIVEN OR RECEIVED: (Identify person instructions were given to or received from)

ISSUES: (Specify if assistance is needed to resolve issue)

On my way into the dock the pontoon boat started running erratically and eventually stalled. I attempted to restart with no luck. I flagged down SWS and they towed me to the south dock. I will inform Mike Goretski as this is the boat which he normally captains.

PLANNED ACTIVITIES (Identify activities by Contractor and area)

SUBMITTED BY:



DATE:05/06/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/07/10 Friday 6AM-4PM WEATHER: 80 clear

SAFETY/JSAS REVIEWED: attended dredge crew safety meeting

VISITORS: (Identify by name, affiliation and purpose of visit)

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN: (Identify activities by Contractor and area)

**Mechanical dredging:** Loc. #1 09:26 N35.55.47.3 W84.28.59.7 Mostly sand 1-3" ash. Switched to grid coordinates received from excavator gps position is center of clam bucket positioned front and center of excavator.

Loc.#2 11:00 N563212.79 E2449039.85 mostly sand minimal ash

Loc.#3 11:44 N563166.20 E2449005.30 sand 6" ash

12:47 1<sup>st</sup> scow heading to dock for unload.

**Aquarius Crane:** Did not visit Aquarius this shift crew was still in sand as per Mike Goretski.

VERBAL INSTRUCTIONS GIVEN OR RECEIVED: (Identify person instructions were given to or received from)

ISSUES: (Specify if assistance is needed to resolve issue)

PLANNED ACTIVITIES (Identify activities by Contractor and area)

SUBMITTED BY:



DATE:05/07/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/08/10 Friday 6AM-4PM WEATHER: 80 clear

**SAFETY/JSAS REVIEWED:** attended dredge crew safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** 10:40 arrive at excavator barge.

Loc. #1 10:45 N563051.72 E2448891.25 sand minimal ash. Discovered several holes in bottom of scow. Placed sand bags over holes and continued to load as per Ricky Moss SES.

Loc.#2 12:15 N563085.98 E2448858.60 Silt/sand minimal ash

13:25 1<sup>st</sup> scow left for unload.

Loc.#3 13:26 N563045.70 E2448924.70 sand minimal ash

Advised Sevenson operator to follow guidance system for direction and to use surface model as a guide for depth of cut but if after one bucket he is in sand or native soil and his system is still telling him he needs to dig deeper to disregard surface model and to move to next area due to the fact that there may be variances in the surface model and or elevation errors from the gps system.

**Aquarius Crane:** 14:00 crew is in the 18<sup>th</sup> cell from the north and is starting to dig ash.

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

Several holes in both scows used today need to be addressed ash water, ash and sand are seeping into the interior compartments.

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:**05/08/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

**REPORT DATE & DAY OF WEEK:** 05/12/10 Wednesday 4PM—2AM **WEATHER:** 65 clear

**SAFETY/JSAS REVIEWED:** attended dredge crew safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** 10:39 Loc. N562544 E2448693 silt/mud filled entire scow with this material. Advised Steve SES not to over dredge. 12:15 2<sup>nd</sup> scow left for dock for unload.

**Aquarius Crane:** 10:25 Loc. N568216.0 E2447596.46 in 100% ash. First night shift for Aquarius crew.

16:23 McKenzie, Shirley, Addison all pumping ash.

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

I went to use the Lazarus pontoon and part way out in the river I noticed that the engine was not pumping water. I brought the boat back to the dock.

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:** 05/12/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/13/10 Thursday 4PM—2AM WEATHER: 65 P. Cloudy

SAFETY/JSAS REVIEWED: signed Aquarius pre job.

VISITORS: (Identify by name, affiliation and purpose of visit)

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN: (Identify activities by Contractor and area)

Mechanical dredging: 00:24 N561954 E2448797 in ash minimal native soil

Aquarius Crane: 20:15 arrive at Aquarius crane barge. Crew pumping out leaking scows and repositioning scows end to end to easily access pumps.

22:08 N568099E2447757 mostly sand minimal ash

22:35 N568055E2447640 mostly sand minimal ash

23:35 moving south no position given heading to 800 barge

16:51 Kylee, Shirley, McKenzie and Addison all in ash.

VERBAL INSTRUCTIONS GIVEN OR RECEIVED: (Identify person instructions were given to or received from)

ISSUES: (Specify if assistance is needed to resolve issue)

PLANNED ACTIVITIES (Identify activities by Contractor and area)

SUBMITTED BY:



DATE:05/13/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/14/10 Friday 4PM—2AM WEATHER: 65 rain thunderstorms

SAFETY/JSAS REVIEWED:

VISITORS: (Identify by name, affiliation and purpose of visit)

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN: (Identify activities by Contractor and area)

**Mechanical dredging:** no mechanical dredging tonight scow at 800 barge is sunken, water is up to the top of the deck if it's not on bottom it will be soon. Notified Jason he talked to Freddy SES they are aware and are heading that way shortly 01:15.

**Aquarius Crane:** 22:28 arrive at Aquarius barge

Loc.#1 N568023 E2447757 mostly sand minimal ash closer to bank in this cell

Loc.#2 N568015 E2447744 mostly sand minimal ash.

Crew using TVA scow since Severson has put holes in their other scow.

24:15 heading to dock

VERBAL INSTRUCTIONS GIVEN OR RECEIVED: (Identify person instructions were given to or received from)

ISSUES: (Specify if assistance is needed to resolve issue)

Concern over damage done to all the scows that Severson has been unloading most are in dire need of repair crews are continuously having to pump them out.

PLANNED ACTIVITIES (Identify activities by Contractor and area)

SUBMITTED BY:



DATE:05/14/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

**REPORT DATE & DAY OF WEEK:** 05/15/10 Saturday 4PM—2AM **WEATHER:** 65 rain thunderstorms

**SAFETY/JSAS REVIEWED:** Attended dredge crew safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** 1:10 crew waiting on empty scow. Scow that is full is full of mud advised crew not to over dredge if they are in mud /sand to move on to next location.

N35.55.40.6 W84.29.02.6 coordinates are from 17:55 barge has not moved from this position at this time 1:10

**Aquarius Crane:** Arrived at Aquarius barge at 23:37 crew working on attaching new clam shell. The previous one was damaged by day crew.

00:15 N567949 E2447732 sand minimal ash

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:**05/15/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/16/10 Saturday 4PM—2AM WEATHER: 65 light rain

**SAFETY/JSAS REVIEWED:** Attended dredge crew safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** I arrived at the 800 barge at 01:15 and there were no workers present the light plant was running and no scow present crew maybe getting empty scow.  
**Aquarius Crane:** 20:00 I arrived at Aquarius barge SWS was on board. The day crew had pulled up a 1970 dodge dart but there were no signs of any oil or gas leak. Upon further investigation the car was last registered in 1974.  
21:50 crane operator returned to barge and preparing to start dredging.  
22:15 N567970 E2447875 in ash filled scow at around 00:45 crew waiting on scow to be brought up by SES.  
00:50 left for dock and 800 barge

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

22:30 contacted Freddie SES and informed him that Aquarius crew would need another scow. He said it would be a few hours.

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

SUBMITTED BY:



DATE:05/16/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/17/10 Monday 4PM—2AM WEATHER: 65

**SAFETY/JSAS REVIEWED:** Attended dredge crew safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** 01:00 arrived at barge crew waiting on an empty scow. Full scow is full of sand minimal ash no coordinate given positioned just above small island at southern tip of surface model

**Aquarius Crane:** 20:05 arrive at Aquarius barge crew loading scow.

N567908 E2447885 in ash some organic debris.

22:30 scow is full waiting on empty from SES.

00:45 left for 800 barge.

17:00 4 dredges running no Addison all 4 in ash.

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

21:20 contacted Freddie SES and informed him that Aquarius crew would need another scow. He said it was on its way. It arrived at around 01:00

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:**05/17/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

REPORT DATE & DAY OF WEEK: 05/18/10 Tuesday 4PM—2AM WEATHER: 65

**SAFETY/JSAS REVIEWED:** Attended dredge crew safety meeting

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** No dredging as of 01:15 crew is still waiting on an empty scow. Aquarius has been priority.

**Aquarius Crane:** 20:00 arrive at Aquarius barge; crew is repositioning waiting to board.

21:00 N567818 E2447959 some ash mostly sand

21:43 moving south N567776 E2447969 minimal ash/ organics

23:35 empty scow arriving from SES

23:45 first scow full heading to dock at 23:55

00:15 N567730 E2447956 minimal ash

Crew has 3 cells left at this time they will likely finish this area tonight. Day crew will need further instruction.

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:05/18/10**



Kingston Ash Recovery Project  
Dredging and Ash Processing  
**Daily Report**

**REPORT DATE & DAY OF WEEK:** 05/19/10 Wednesday 4PM—2AM **WEATHER:** 65

**SAFETY/JSAS REVIEWED:** Signed mechanical dredge crew pre job and spa

**VISITORS:** (Identify by name, affiliation and purpose of visit)

**ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK PLAN:** (Identify activities by Contractor and area)

**Mechanical dredging:** 17:45 Arrive at 800 barge to monitor the last bit of the day crew.

N566087.40 E2449354.70 sand/ash mix.

Unable to touch bottom with rear spud. Guidance system seems to be off vertically or the surface model is somewhat incorrect, bucket on bottom is reading 796' and the surface model shows the bottom to be at 798' in this area. Crew is dredging ash to the hard bottom and moving on.

17:55 **N566084.45 E2449356.34** ash dredged to hard bottom

18:15 **N566062.30 E2449356.00** ash dredged to hard bottom

18:35 return to dock.

20:30 Arrive back at 800 barge for night shift.

21:00 **N566050 E2449339** minimal material here hard bottom

21:28 **N566025 E2449339** ash dredged to hard bottom

21:47 **N565997 E2449336** ash dredged to hard bottom

22:08 **N566008 E2449312** ash dredged to hard bottom

22:39 **N565993 E2449275** sand

23:16 **N565991 E2449254** sand having a hard time staying in position operator is moving barge dragging bucket along bottom, careless operation.

23:30 **N566067 E2449264** sand/rock

23:55 **N566133 E2449266** sand/rock

24:15 leaving for dock.

Crew only has four cells left to complete this area they will probably complete it sometime around 03:00 according to Steve SES. Scow at this time is only 1/2 full.

**Aquarius Crane:** No Aquarius tonight

**VERBAL INSTRUCTIONS GIVEN OR RECEIVED:** (Identify person instructions were given to or received from)

**ISSUES:** (Specify if assistance is needed to resolve issue)

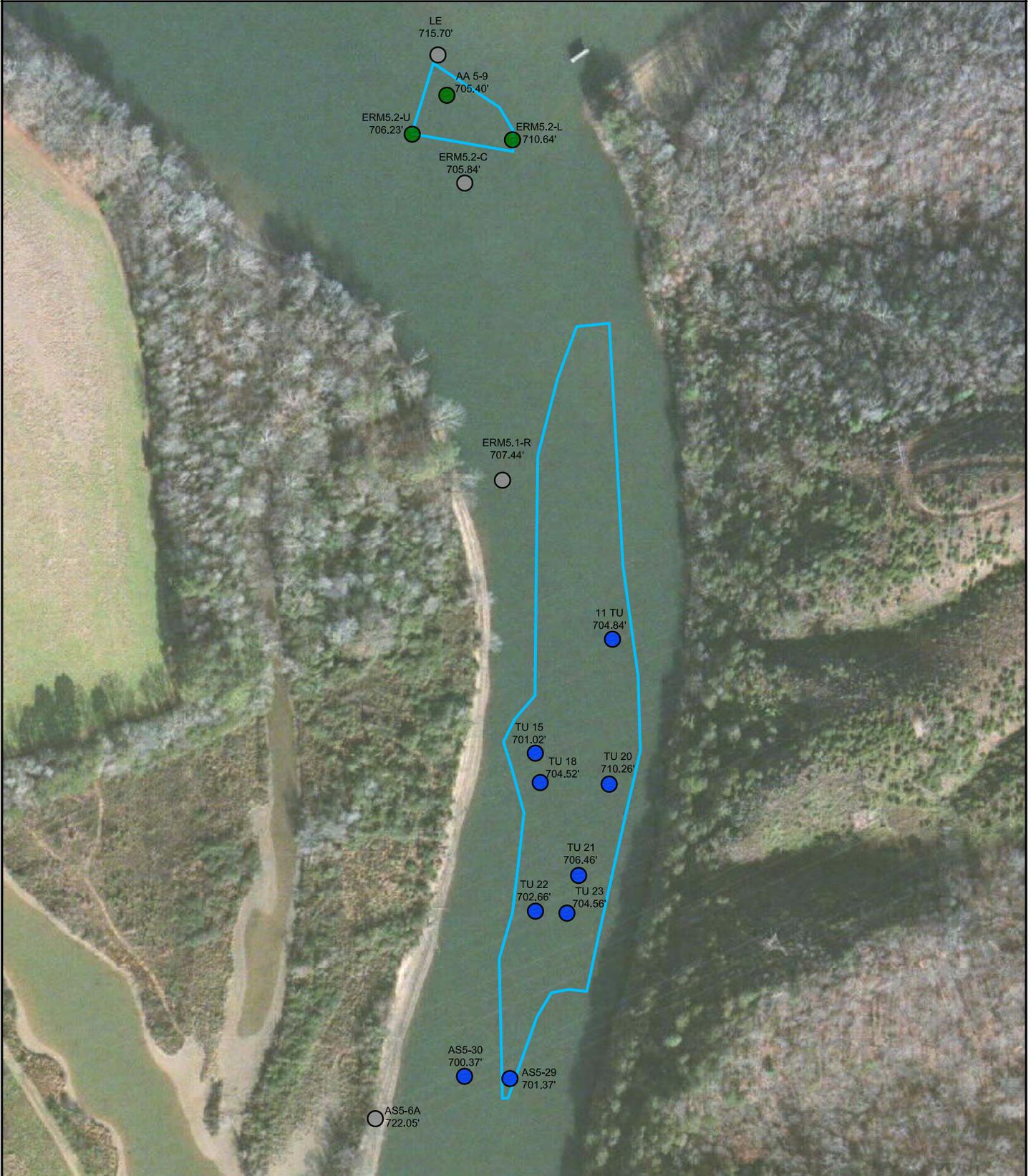
**PLANNED ACTIVITIES** (Identify activities by Contractor and area)

**SUBMITTED BY:**



**DATE:**05/19/10

# VibeCore Concurrence Sampling Results - Above Above Segment 5 - Area 3



- Ash Recovered
- No Ash Present
- No Core Recovered
- Phase 2 Dredging Path

VibeCore Label Format:  
Core Number  
Ash Thickness (ft)



**JACOBS**<sup>™</sup>

05/25/10

Figure 6



			GPS		Calculated				Measured					
	Core #	Photo #	N:	E:	Bed Elev.	Elev. Tested	Top of Ash	Bottom of Ash	River Elevation	River Depth	Core Depth	Depth to Top Ash	Depth bottom of ash	Thickness of Ash
01/28/2010	AS5-6A	R0010201	565122.960	2448975.930	722.05	718.05	-	-	740.85	18.8	4.00	0	0	0
02/03/2010	ERM5.1-R	R0010029	566155.850	2449177.090	707.44	706.24	-	-	738.54	31.10	1.20	-	-	0
02/03/2010	ERM5.2-C	None	566632.760	2449115.160	705.84	705.54	-	-	738.54	32.70	0.30	-	-	0
01/05/2010	LE	R0010062	566834.600	2449076.610	715.70	712.40	-	-	735.90	20.20	3.30	-	-	0
02/04/2010	ERM5.2-U	R0010034	566707.710	2449033.400	706.78	705.48	706.78	706.23	739.08	32.30	1.30	-	0.55	0.6
04/13/2010	AA 5-9	R0010139	566770.060	2449091.150	706.80	704.50	706.40	705.40	738.80	32.00	2.30	0.40	1.40	1.00
02/03/2010	ERM5.2-L	R0010032	566694.780	2449195.700	711.64	709.54	711.64	710.64	738.54	26.90	2.10	-	1.00	1.0

	GPS	
Pt ID #	N:	E:
1	565122.960	2448975.930
2	566155.850	2449177.090
3	566632.760	2449115.160
4	566834.600	2449076.610
5	566707.710	2449033.400
6	566770.060	2449091.150



## Vibecore Documentation

Date: 01/05/2009		Weather: Clear, - 20 degrees F, winds N @ <5 mph		Location: Above-Above Segment 5 (Emory river at mouth of Little Emory River)			
River Flow/Level: <2,000 cfs		elevation = 735.9'					
Crew: Curtis Long, Joel Ross, Kevin Shaw							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval
LE	R0010062	P	N: 566834.60 E: 2449076.61	20.2'	11:20	Surface detritus and fine sand	0.0'-0.5'
Deviations encountered: no ash recovered						fine silt	0.5'-1.9'
						layer of fine sand	1.9'-2.2'
						clayey silt	2.2'-3.3'
						Total Depth	3.3'

Date: 01/28/2010		Weather: Clear ~ 45 F, wind calm		Location: Above Segment 5			
River Flow: 3500 cfs		River Elevation: 740.85'					
Crew: Walter Burns, Joel Ross, Kevin Shaw							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
AS5-6A	R0010201	Acrylic	N: 565122.96' E: 2448975.93'	18.8'	11:30	Fine sand	0.0-0.3
Deviations encountered: refusal in clay						Silty clay	0.3-1.5
						Clay	1.5-4.0
						Total Depth	4.1'

Date: 02/02/2010		Weather: Overcast, light rain; -38-40 F; wind calm		Location: Above Above Segment 5			
River Flow: <2,000 cfs		River Elevation: 738.67'					
Crew: Joel Ross, Walter Burns, Kevin Shaw							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
AS5-29	R0010216	6' Acrylic	N: 565189.1' E: 2449190.38'	37.3'	14:15	None	
Deviations encountered: HDOP 1.55. No sediment, ~3' of "ashen" water in tube. Hard bottom							
						Total Depth	

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
AS5-30	None	6' Acrylic	N: 565191.52' E: 2449116.95'	38.3'	14:28	None	
Deviations encountered: HDOP = 1.47; 2 cores, but no sample collected - bedrock. Brownish "silty" water.							
						Total Depth	

Date: 02/03/2010		Weather: mostly cloudy with a high near 43F; winds 5mph from the N		Location: Emory River above Mile 5			
River Flow: 3080cfs		River Elevation: 738.54'					
Crew: Mark Greer, Elizabeth Burton, Daniel Craze, Russell Vance							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM5.1-R	R0010029	Acrylic	N: 566155.85' E: 2449177.09'	31.1'	12:46	[<1% ash] Brown, medium grain sand mixed with coal	0-1.2
Deviations encountered: refusal on solid rock Results of ash analysis sent for PLM noted as [%]							
						Total Depth	1.2'

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM5.2-C	none	Acrylic	N: 566632.76' E: 2449115.16'	32.7'	15:53	[ND ash] sand, brown, no visible ash, mixed with organic material and black, coal-like substance	0-0.3
Deviations encountered: refusal on rock, large material would not enter coring tube Results of ash analysis sent for PLM noted as [%]							
						Total Depth	.3'

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM5.2-L	R0010032	Acrylic	N: 566694.78' E: 2449195.7'	26.9'	16:29	[44% ash] ash with mixed fines approximately 50-60% organic matter; of fine fraction is >50%ash [5% ash] high organic material content, coarse sands mixed with silt, no visible ash, strong odor: decomp	0-1.0 1.0-2.1
Deviations encountered: refusal on rock Results of ash analysis sent for PLM noted as [%]							
						Total Depth	2.1'

Date: 02/04/2010		Weather: Cloudy High 46 degrees wind around 5 mph		Location: Emory River Above Mile 5.			
River Flow: 3080 cfs		River Elevation: 739.08'					
Crew: Mark Greer, Daniel Craze, Steve Bunkley							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM5.2-U	R0010034	Acrylic	N: 566707.71' E: 2449033.4'	32.3'	12:30	[69% ash] > 50% Ash few fines and some organic material [1% ash] <50% Ash (a few streaks visible) Dark Brown in color - silty	0-0.55 0.55-1.3
Deviations encountered: Results of ash analysis sent for PLM noted as [%]							
						Total Depth	1.3'

Date: 04/13/2010		Weather: Sunny, 79 F		Location: Above Above Segment 5 Emory River			
River Flow: 687 cfs		River Elevation: 738.8' at 189 Lakeshore Dr.					
Crew: Greg Schwartz (RSI), Stacy Goss (RSI), Chad Fairless (RSI)							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
AA 5-9	R0010139	Acrylic	N: 566770.06' E: 2449091.15'	32.1'	11:47	Brown native fines w/ organic material	0.0 - 0.4
Deviations encountered: Core met refusal						>50% fly ash	0.4 - 1.4
						Brown native fines w/ organic material	1.4 - 1.7
						Gray sand with native fines	1.7 - 2.3
						Total Depth	2.3'



Vibecore Documentation

Date: 04/23/2010 Weather: Sunny and breezy Location: TU
River Flow: 384cfs River Elevation: 739.06'
Crew: E. Arnold, K. Gassaway, T. Davis

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: TU 23, N/A, Acrylic, N: 565454.54' E: 2449282.7', 34.5', 12:03.

Deviations encountered: No recovery. Location is on solid rock. Total Depth

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: TU 22, N/A, Acrylic, N: 565458.78' E: 2449233.79', 36.4', 12:50.

Deviations encountered: No recovery. Point is on hard rock. Suspended sediment in tube is ash. Total Depth

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: TU 21, N/A, Acrylic, N: 565513.12' E: 2449298.36', 32.6', 13:16.

Deviations encountered: No recovery. Location is on hard rock. Suspended sediment in tube was silt. Total Depth

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: TU 20, N/A, Acrylic, N: 565662.25' E: 2449350.62', 28.8', 13:33.

Deviations encountered: No recovery. Point is on hard rock and on the channel slope. Suspended sediment in tube was silt. Total Depth

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: TU 18, N/A, 6' Acrylic, N: 565664.52' E: 2449239.8', 34.5', 9:42.

Deviations encountered: Recovery not achieved. Sediment was in slurry. Sediment seen suspended in core tube was light brown native fines. Total Depth N/A

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: TU 15, N/A, 6' Acrylic, N: 565711.22' E: 2449234.15', 38', 11:25.

Deviations encountered: Recovery not achieved. Sediment was in slurry. Sediment seen suspended in core tube was light brown native fines. Total Depth N/A

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: 11 TU, N/A, 6' Acrylic, N: 565895.18' E: 2449355.09', 34.8', 10:10.

Deviations encountered: Recovery not achieved. Sediment in slurry appeared to be light brown native fines. Total Depth N/A

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: 11 TU, N/A, 6' Acrylic, N: 565895.18' E: 2449355.09', 34.8', 10:10.

Deviations encountered: Recovery not achieved. Sediment in slurry appeared to be light brown native fines. Total Depth N/A

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: 11 TU, N/A, 6' Acrylic, N: 565895.18' E: 2449355.09', 34.8', 10:10.

Deviations encountered: Recovery not achieved. Sediment in slurry appeared to be light brown native fines. Total Depth N/A

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: 11 TU, N/A, 6' Acrylic, N: 565895.18' E: 2449355.09', 34.8', 10:10.

Deviations encountered: Recovery not achieved. Sediment in slurry appeared to be light brown native fines. Total Depth N/A

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: 11 TU, N/A, 6' Acrylic, N: 565895.18' E: 2449355.09', 34.8', 10:10.

Deviations encountered: Recovery not achieved. Sediment in slurry appeared to be light brown native fines. Total Depth N/A

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: 11 TU, N/A, 6' Acrylic, N: 565895.18' E: 2449355.09', 34.8', 10:10.

Deviations encountered: Recovery not achieved. Sediment in slurry appeared to be light brown native fines. Total Depth N/A

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: 11 TU, N/A, 6' Acrylic, N: 565895.18' E: 2449355.09', 34.8', 10:10.

Deviations encountered: Recovery not achieved. Sediment in slurry appeared to be light brown native fines. Total Depth N/A

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: 11 TU, N/A, 6' Acrylic, N: 565895.18' E: 2449355.09', 34.8', 10:10.

Deviations encountered: Recovery not achieved. Sediment in slurry appeared to be light brown native fines. Total Depth N/A

Table with 10 columns: Core #, Photo #, Tube Type, Core Coordinates, River Depth, Time, Core Description, Interval (ft). Row 1: 11 TU, N/A, 6' Acrylic, N: 565895.18' E: 2449355.09', 34.8', 10:10.

Deviations encountered: Recovery not achieved. Sediment in slurry appeared to be light brown native fines. Total Depth N/A



TVA KIP Ash Recovery  
Vibecore Data - No Core Recovered



		GPS		Measured	
Date	Core #	N:	E:	River Elevation	River Depth
02/02/2010	AS5-29	565189.10	2449190.38	738.67	37.30
02/02/2010	AS5-30	565191.52	2449116.95	738.67	38.30
04/23/2010	TU 23	565454.54	2449282.70	739.06	34.50
04/23/2010	TU 22	565458.78	2449233.79	739.06	36.40
04/23/2010	TU 21	565513.12	2449298.36	739.06	32.60
04/23/2010	TU 20	565662.25	2449350.62	739.06	28.80
04/26/2010	TU 18	565664.52	2449239.80	739.02	34.50
04/26/2010	TU 15	565711.22	2449234.15	739.02	38.00
04/29/2010	11 TU	565895.18	2449355.09	739.64	34.80

Note: These are included when the log provides useful information, eg. hard bottom, encountered rock, color of water column.

# Vibecore Sampling Photos

## Above Above Segment 5 Dredge Area 3



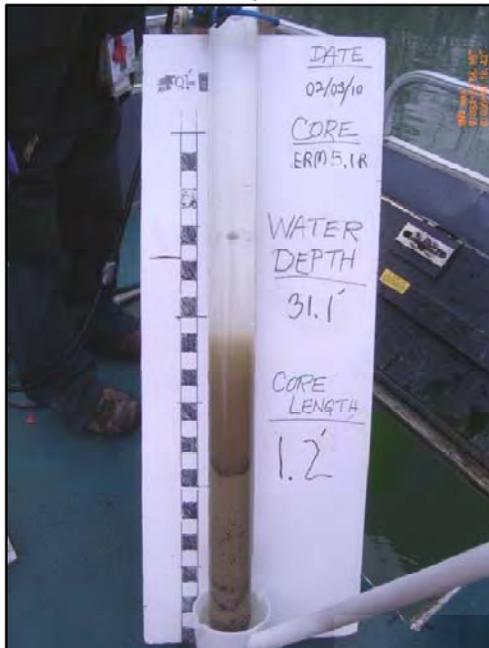
Core LE

Total core depth = 3.3'  
 Ash thickness = 0.0'  
 Water depth = 20.2'



Core AS5-A

Total core depth = 4.0'  
 Ash thickness = 0.0'  
 Water depth = 18.8'



Core ERM5.1-R

Total core depth = 1.2'  
 Ash thickness = 0.0'  
 Water depth = 31.1'

No Photo

Core ERM5.2-C

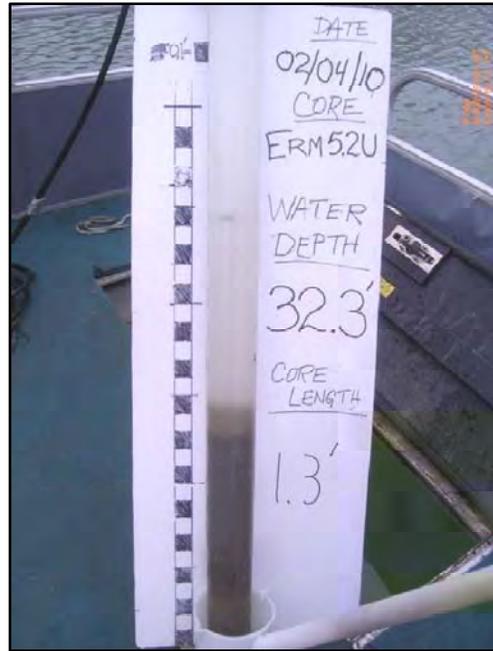
Total core depth = 0.3'  
 Ash thickness = 0.0'  
 Water depth = 32.7'

# Vibecore Sampling Photos

## Above Above Segment 5 Dredge Area 3



Core ERM5.2-L  
Total core depth = 2.1'  
Ash thickness = 1.0'  
Water depth = 26.9'



Core ERM5.2-U  
Total core depth = 1.3'  
Ash thickness = 0.6'  
Water depth = 32.3'



Core AA 5-9  
Total core depth = 2.3'  
Ash thickness = 1.0'  
Water depth = 32.0'