

### Time-Critical Concurrence

**Area:**

Emory River, Segment Above Above 5, Area 2, Emory River mile 5.9 to 5.4

**Agreement:**

Ash removal activities have been completed in Segment Above Above 5, Area 2, Emory River mile 5.9 to 5.4.

The area was identified by VibeCore drilling and included in the dredge plan addendum as shown in Figure 2, dated 3/15/10. The area was localized using pre-spill and post-spill bathymetric surfaces in addition to the VibeCore data creating the smaller area as shown in Figure 2, dated 4/20/10 and further reduced by supplemental VibeCore sampling, Figure 6 dated 5/25/10. Ash was initially recovered using a barge mounted Komatsu 800 excavator from April 19<sup>th</sup> to April 22<sup>nd</sup>. The results of the first pass were reviewed and the amount of the remaining ash located below the reach of the K-800 necessitated arrangements for equipment capable of greater excavation depth. A barge mounted crane equipped with a clamshell bucket was mobilized and mechanically dredged the area from May 5<sup>th</sup> to May 18<sup>th</sup>. An excavation control grid was developed for this work show on Figure 5, dated 5/22/10. A GPS unit on the crane and marked cable depths were used to verify that each grid was dredged to native sediment. Jacobs' field technicians were assigned to each shift and worked with the crane crew (Aquarius) in verifying that native sediments were reached in all grids. 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 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 post dredging bathymetric survey, supplemental VibeCore sediment sampling locations shown on Figure 6, and Dredging Daily Reports by Jacobs Field Technicians. The control grids and field technician completion notes have been plotted on the attached Figure 5. Where no notes are recorded, the VibeCore samples had shown no ash and no excavation was attempted.

These results indicate that there is no remaining recoverable ash in Segment "Above Above 5", Area 2, Emory River mile 5.9 to 5.4.

**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 05/20 Area 2, dated 5/20/10  
 Figure 5, Bathymetric Survey 05/20 Area 2 (with Control Grid Overlay & Field Technician Note Locations), dated 5/25/10  
 Segment AA5, Dredging Daily Reports – 4/19/10 to 4/22/10 & 5/5/10 to 5/18/10  
 Figure 6, VibeCore Concurrence Sampling Results – Above Above Segment 5 – Area 2, dated 5/25/10  
 Vibecore Sediment Sampling: Data Summary, Logs, and Photos

**Time-Critical Concurrence**

<b>Concurrence Comments:</b>

\_\_\_\_\_  
Jacobs Project Manager

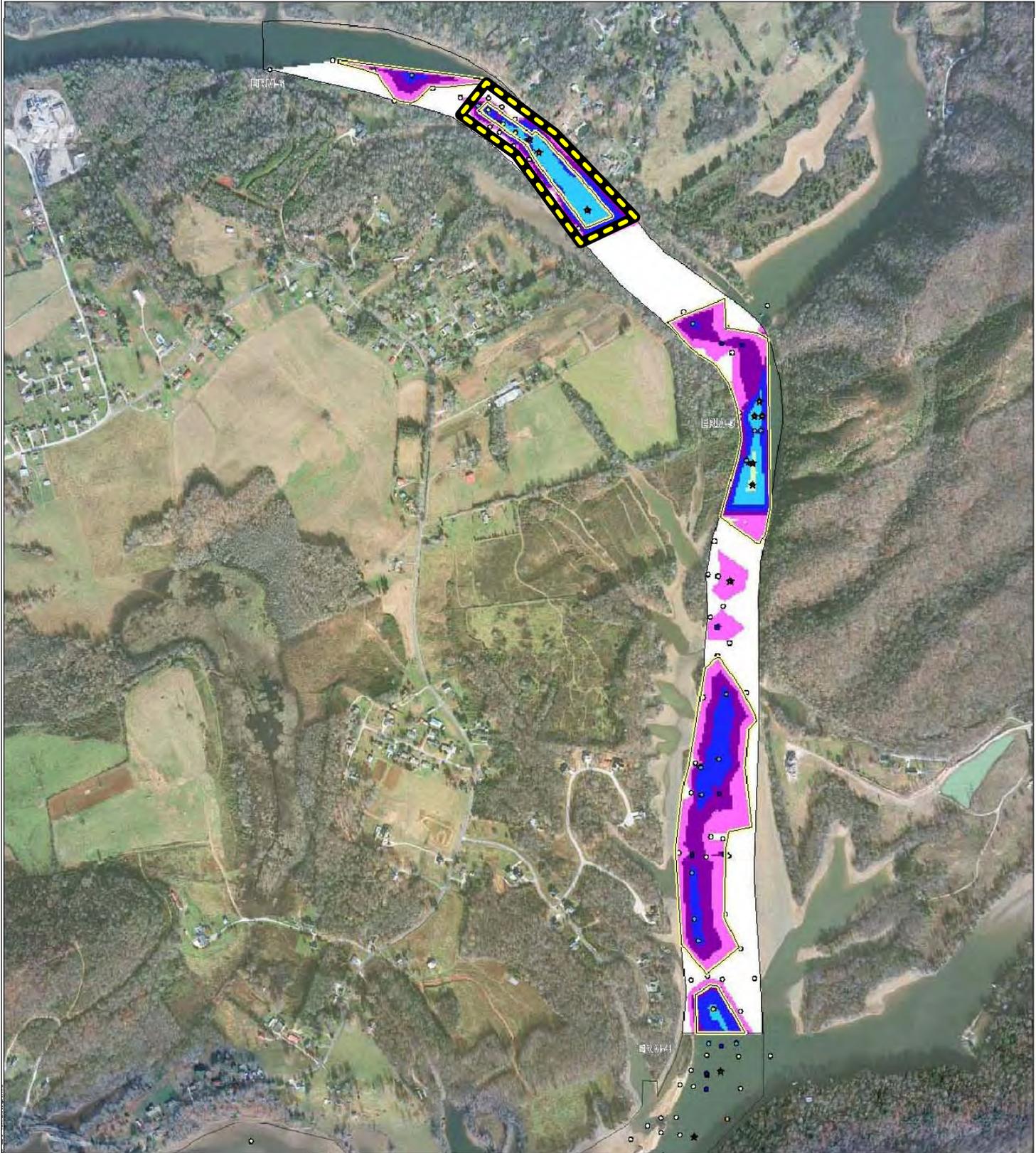
\_\_\_\_\_  
Date

\_\_\_\_\_  
Tennessee Valley Authority

\_\_\_\_\_  
Date

\_\_\_\_\_  
U. S. Environmental Protection Agency

\_\_\_\_\_  
Date



**Legend**

- Ash Remaining: ~67,803 cy**
- 0 - 1 inch: ~326 cy
  - 1 - 6 inches: ~9,370 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**

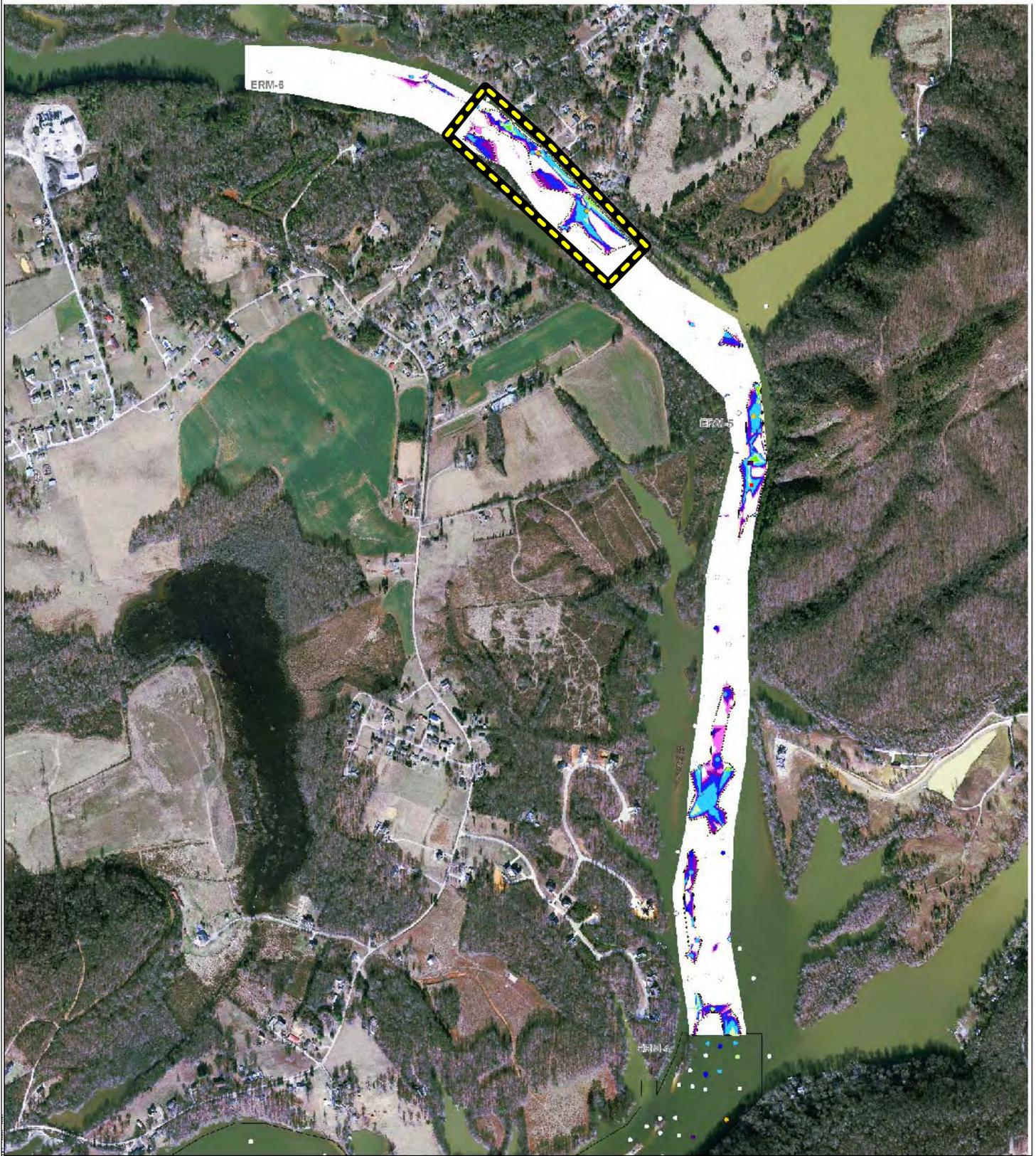


**JACOBS**

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

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

Figure 2



**Legend**

Ash Remaining: 37,700 cy

0 - 1 inch: 260 cy
1 - 6 inches: 347 cy
6 inches - 1 ft: 3,580 cy
1 - 2 ft: 8,442 cy
2 - 4 ft: 14,163 cy
4 - 6 ft: 7,569 cy
6 - 8 ft: 1,730 cy
8 - 10 ft: 456 cy
10 - 16 ft: 110 cy

V-becores Collected as of 04/21/2010

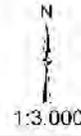
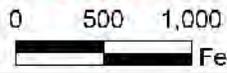
Thickness of Ash (ft)

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

Fractured Bridge Area

Area of Interest

**DRAFT**



**JACOBS**

Ash Remaining to Pre-Spill Surface Above Above Segment 5

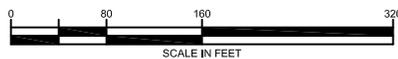
NAME: 010691 DATE: 04/29/2010

Figure 2

# Bathymetry Removal Areas - Above Above Segment 5



- Removed From Plan
- Phase 2 Dredging Path



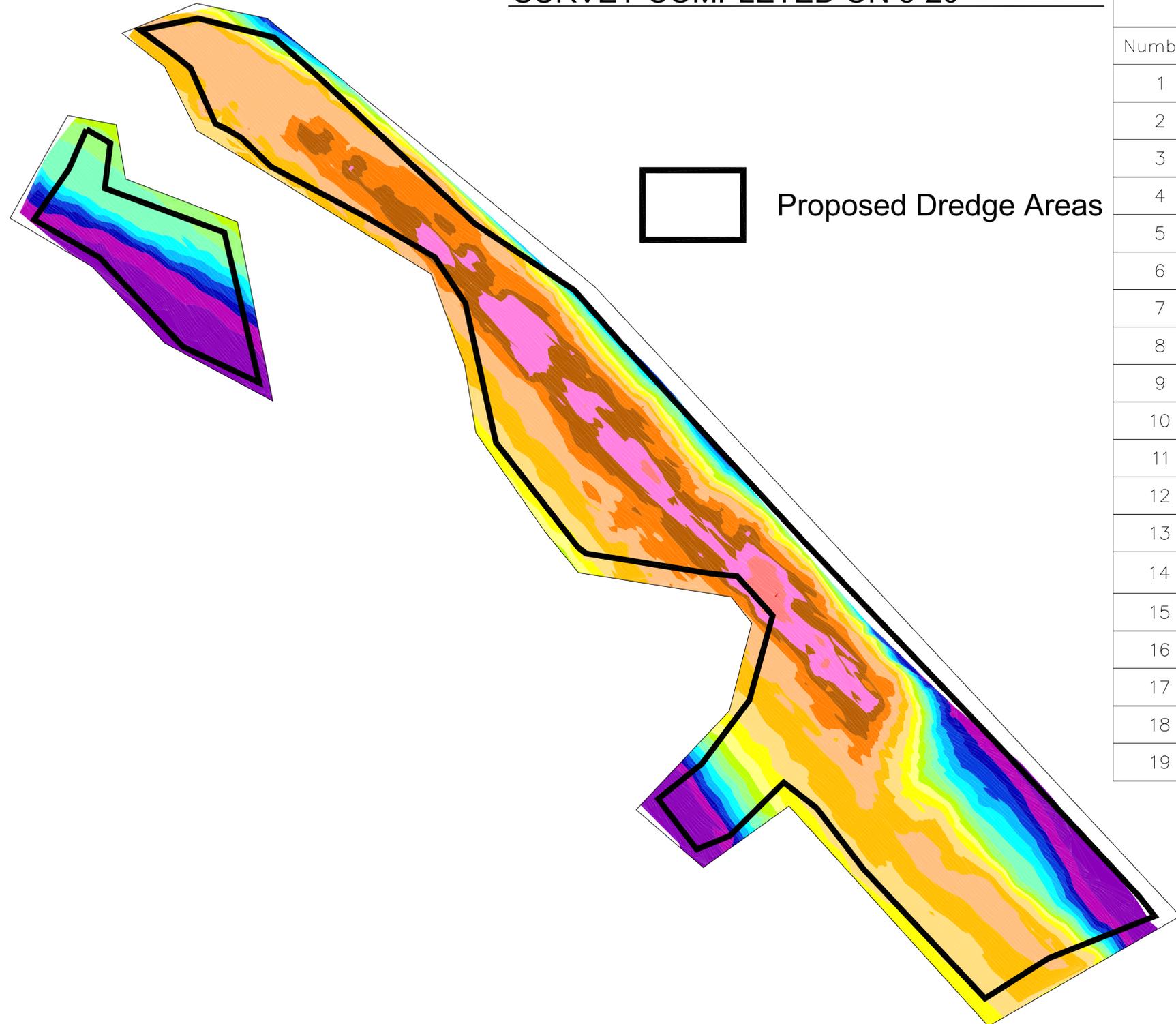
**JACOBS**

05/21/10

Figure 2

# Legend

SURVEY COMPLETED ON 5-20



 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	Brown
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 Cyan
14	718.00	720.00	Cyan
15	720.00	722.00	Blue-Cyan
16	722.00	724.00	Blue
17	724.00	726.00	Dark Blue
18	726.00	730.00	Purple
19	730.00	737.07	Dark Purple

**BATHYMETRIC SURVEY  
05/20 AREA 2**

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

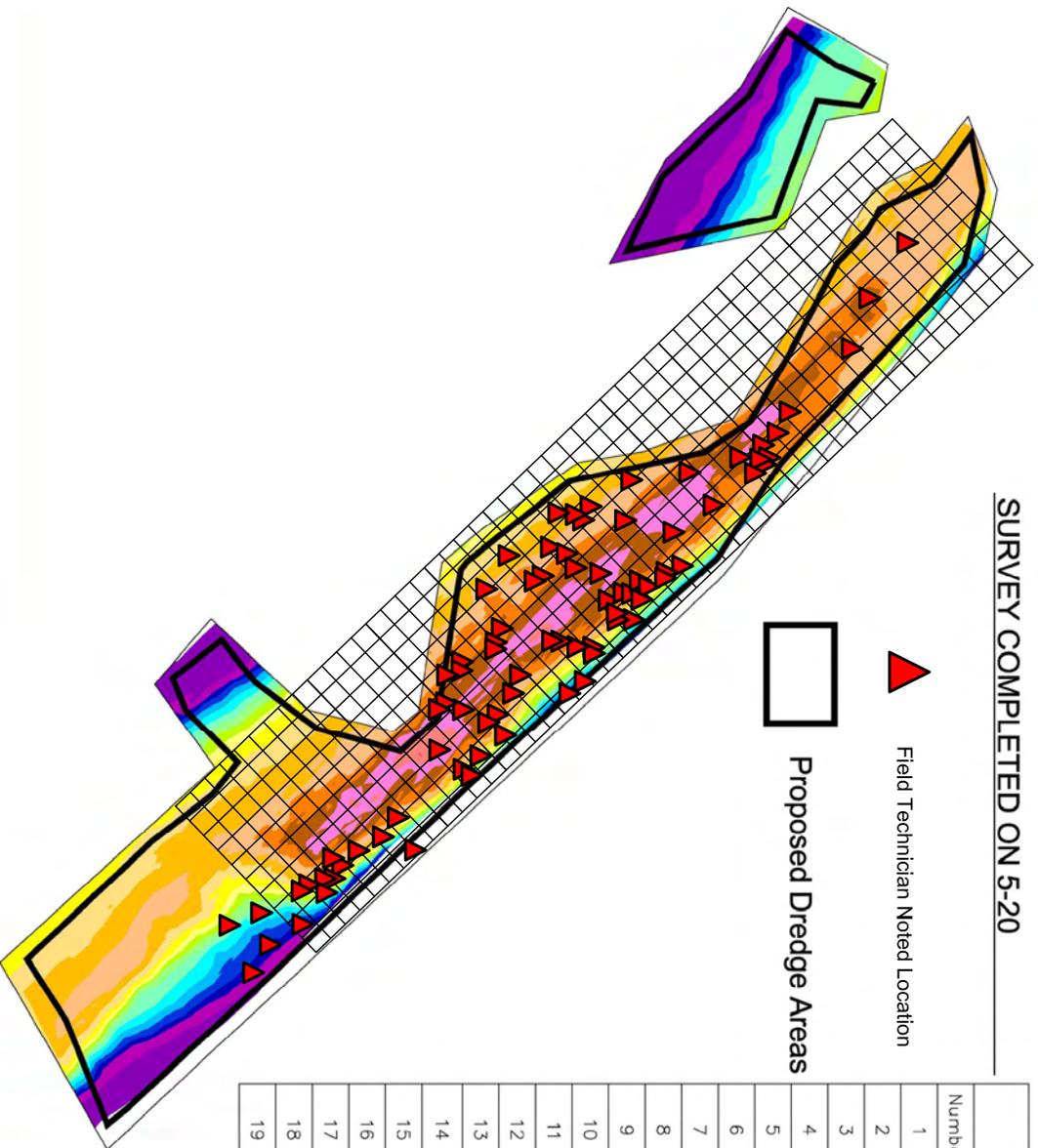


DRAWING	DATE:	MAY 20, 2010
	DRAWN BY:	DAB
	CHECKED BY:	JB
	CAD FILE:	Survey 05-20
	SCALE:	1"=75'

# Legend

SURVEY COMPLETED ON 5-20

-  Field Technician Noted Location
-  Proposed Dredge Areas



Elevations Table

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



## BATHYMETRIC SURVEY 05/20 AREA 2

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



DRAWING

DATE: 05/25/10  
DRAWN BY: CML  
CHECKED BY: Survey 05-20  
SCALE:

Figure 5

SCALE:





Kingston Ash Recovery Project  
Dredging and Ash Processing  
Daily Report

REPORT DATE & DAY OF WEEK: 04/20/10 Monday 6AM-4PM WEATHER: 50 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)

DREDGING: Mechanical dredging started at 13:16. At 08:30 we returned to north dock to load a barrel of hydraulic fluid. We returned to the barge at around 09:30. Crew working on filling excavator with fluid and getting the gps system online. Excavating ash, moved 3 times at 13:13, 13:39 and 13:50 approximate location at 13:50 N 35.56.36.6,W84.29.15.9 based on SES handheld GPS. All movements were to the south approximately 10-20 FT.

FILTER PRESS

BALLFIELD:

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:04/20/10



Kingston Ash Recovery Project  
Dredging and Ash Processing  
Daily Report

REPORT DATE & DAY OF WEEK: 4/20/10 Tuesday

WEATHER: Rainy

SAFETY/JSAS REVIEWED: Attended dredging 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 - 5 dredges running @16:22, 16:55, and 17:32; 10" dredge not running @16:25; Unloading barge @ North Dock @17:12; Switch barges @21:12, in preparation to head North to the dredging site; Arrived @ dredging site @22:08; Started dredging @22:30, material being dredged is all ash as far as the excavator can reach; moved dredging operation 8 times throughout the night, every time we moved we located ash; Reason for moving due to unable to reach river bottom with excavator; Heading in @2:30; arrived @the North dock @3:30; Switch barges around by 4:15, and barge was ready to be off loaded

Rim and Sluice Trenches . Dipping @16:55 and 17:32

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 coordinates or map to help orientate dredging operation on night shift

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: 04/21/10 Wednesday 6AM-4PM WEATHER: 70 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)

DREDGING: Mechanical dredging started at 08:54 completed first barge of ash at 10:41. Moved three times, all in a southerly direction. 12:50 empty barge returned to the excavator barge. Moved back up river to approximate location N 35.5636.0 W 84.2917.2 Found nothing but sand at this location moved south 20' +\_ and also found sand only moved several more times east and south and still in sand. At this time my shift ended and headed back to the dock. Crew still having technical difficulties with their excavator GPS system and are relying on a hand held GPS unit. I feel that this has some effect on their lack of direction but I also feel that the interpolation of the coring data to create a dredge surface may be inaccurate. I think that the ash may be more in pockets. My suggestion would be to locate our core positions on the river with marker buoys so the barge has a visual point to follow for placement which would give them an accurate starting point and they can excavate outwards from that point in all directions till they find no ash.

FILTER PRESS

BALLFIELD:

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:04/21/10



# 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>rd</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: 04/22/10 Thursday 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: 08:06 arrived at excavator barge.

Loc. #1 N 35.5635.9 W 84.2916.6 at 08:30 in sand every scoop.

Loc. #2 N 35.5635.2 W 84.2916.1 at 09:04 in sand again at this location

Loc. #3 N 35.5634.8 W 84.2915.7 at 09:10 in sand. 09:14 Etrex programmer on board to look at excavator guidance system. 11:01 Trimble representative on board to help with guidance issue. 11:34 no resolution to guidance problem SES will be calling to resolve issue. At this time I spoke with Brad and advised we move south and towards the east bank where we knew there was ash present. I spoke with Steve Arrington and told him our plan and he advised me to try at another location first before we try there N35.5633.35 W84.2912.65. We had already started moving; we were close to the location when they anchored so I advised Brad to take a few test scoops at our Location.

Loc. #4 N 35.5633.6 W 84.2913.2 at 11:56 we were in ash at this location, after finishing in this area we moved to the advised location.

Loc. #5 N 35.5632.9 W 84.2911.9 at 12:16 we were still off of the coordinate but advised to take a test scoop and we were in ash.

Loc. #6 N 35.5633.1 W 84.2912.2 at 12:40 in ash at this location with slight over dredging.

Loc. #7 N 35.5632.4 W 84.2911.5 at 13:15 ¾ ash and ¼ sand in this location. Barge full at 13:38 returned to dock for unloading.

Before my departure I spoke with Brad and advised to continue south on this heading until no ash and to move back over toward the shore where we knew there was ash.

It is very difficult to navigate and direct the barge with a hand held GPS and determine an accurate position. Crew is doing the best job possible with the equipment they have at this point.

BALLFIELD:

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:04/22/10



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: 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: 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: 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:** 5/8/10 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: 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 Severson 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: 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: 5/11/10 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: 5/12/10

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: 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: 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: 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: 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: 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: 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: 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: 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: 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: 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: 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)

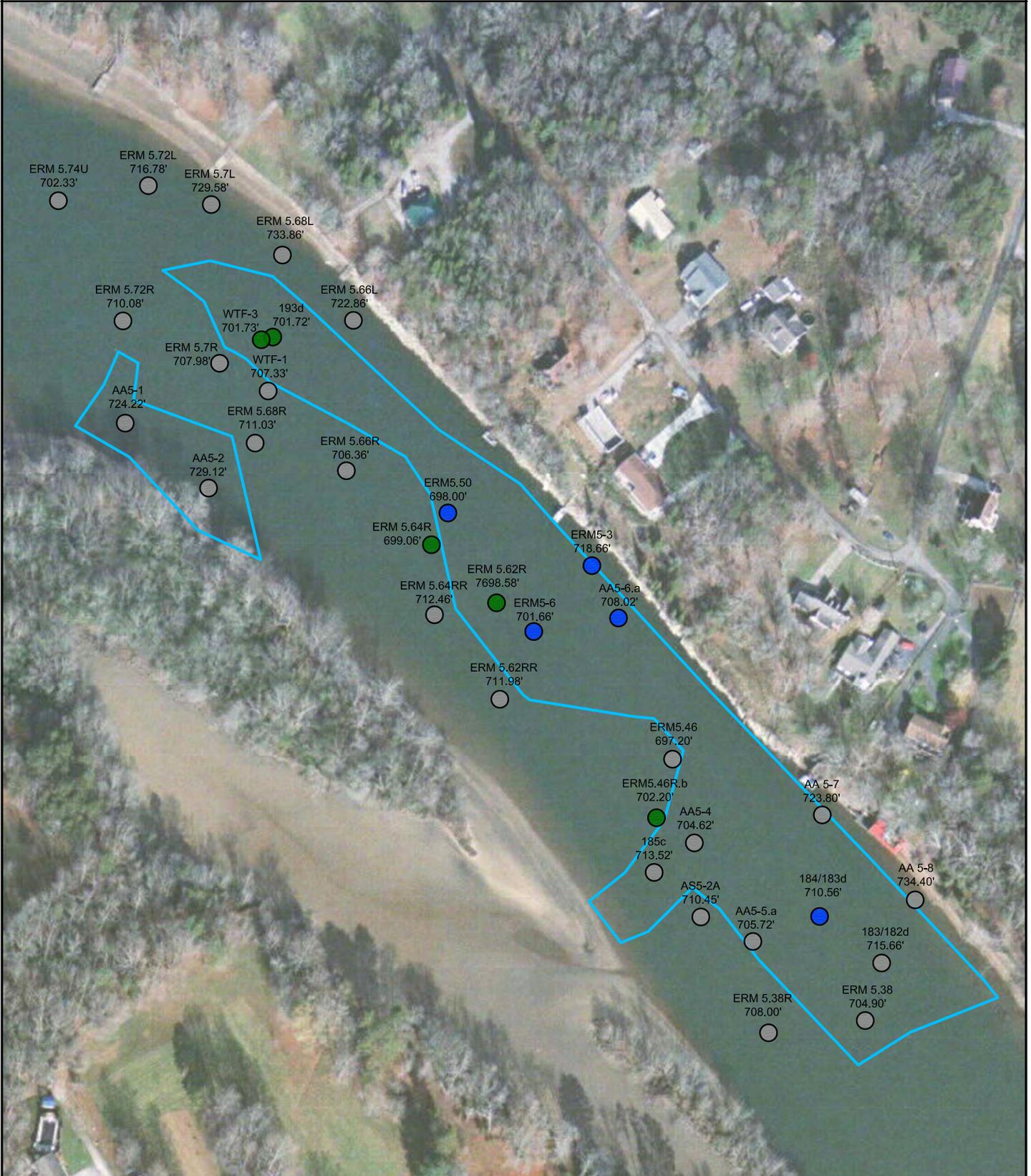
PLANNED ACTIVITIES (Identify activities by Contractor and area)

SUBMITTED BY:



DATE:05/18/10

# VibeCore Concurrence Sampling Results - Above Above Segment 5 - Area 2



- 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



TVA KIP Ash Recovery  
Vibcore Data - All Points



			GPS		Calculated				Measured					
Date	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
01/18/2010	WTF-3	R0010148	568,472.47	2,447,245.06	702.73	699.43	702.73	701.73	736.73	34.00	3.30	-	1.00	1.00
01/18/2010	WTF-1	R0010144	568,396.22	2,447,257.77	707.33	705.33	-	-	736.73	29.40	2.00	-	-	0
01/28/2010	AS5-2A	R0010202	567,624.88	2,447,890.70	710.45	705.95	-	-	740.85	30.4	4.5	0	0	0
02/04/2010	ERM 5.72L	R0010305	568,697.19	2,447,081.13	716.78	715.88	-	-	739.08	22.30	0.90	-	-	0
02/04/2010	ERM 5.7L	R0010307	568,668.21	2,447,172.77	729.58	727.28	-	-	739.08	9.50	2.30	-	-	0
02/04/2010	ERM 5.72R	R0010304	568,498.49	2,447,044.10	710.08	707.88	-	-	739.08	29.00	2.20	-	-	0
02/04/2010	ERM 5.7R	R0010306	568,435.80	2,447,184.95	707.98	707.18	-	-	739.08	31.10	0.80	-	-	0
02/18/2010	ERM 5.74U	R0010325	568,673.34	2,446,949.88	702.33	699.83	-	-	736.53	34.20	2.50	-	-	0
02/18/2010	ERM 5.68R	R0010328	568,319.89	2,447,239.69	711.03	711.03	-	-	736.53	25.50	-	-	-	0
02/19/2010	ERM 5.68L	R0010329	568,595.56	2,447,277.73	733.86	733.16	-	-	736.46	2.60	0.70	-	-	0
02/19/2010	ERM 5.66L	R0010330	568,499.53	2,447,382.73	722.86	722.36	-	-	736.46	13.60	0.50	-	-	0
02/19/2010	ERM 5.66R	R0010331	568,278.63	2,447,370.29	706.36	703.56	-	-	736.46	30.10	2.80	-	-	0
02/23/2010	ERM 5.64R	R0010335	568,171.63	2,447,495.23	699.76	695.46	699.46	699.06	736.06	36.30	4.30	0.30	0.70	0.4
02/23/2010	ERM 5.64RR	R0010336	568,069.43	2,447,500.77	712.46	707.06	-	-	736.06	23.60	5.40	-	-	0
02/24/2010	ERM 5.62R	R0010339	568,091.12	2,447,590.43	699.78	698.28	699.48	698.58	736.38	36.60	1.50	0.30	1.20	0.9
02/24/2010	ERM 5.62RR	R0010340	567,945.64	2,447,595.59	711.98	710.78	-	-	736.38	24.40	1.20	-	-	0
02/26/2010	ERM 5.38	R0010342	567,473.06	2,448,130.43	704.90	702.50	-	-	737.20	32.30	2.40	-	-	0
03/01/2010	ERM5.46	R0010346	567,857.72	2,447,848.42	697.20	695.50	-	-	736.90	39.70	1.70	-	-	-
03/01/2010	ERM5.46R.b	R0010345	567,773.41	2,447,827.38	702.80	702.10	702.50	702.20	736.90	34.10	0.70	0.30	0.60	0.30
03/01/2010	ERM 5.38R	R0010344	567,453.17	2,447,989.51	708.00	706.70	-	-	736.90	28.90	1.30	-	-	-
04/12/2010	AA5-1	R0010472	568,351.54	2,447,043.90	724.22	718.52	-	-	738.82	14.60	5.70	-	-	-
04/12/2010	AA5-2	R0010473	568,252.99	2,447,169.30	729.12	724.82	-	-	738.82	9.70	4.30	-	-	-
04/12/2010	AA5-4	R0010476	567,736.56	2,447,880.66	704.62	702.12	-	-	738.82	34.20	2.50	-	-	-
04/12/2010	AA5-5.a	R0010477	567,592.88	2,447,967.59	705.72	704.52	-	-	738.82	33.10	1.20	-	-	-
04/13/2010	AA 5-7	R0010137	567,777.30	2,448,065.16	723.80	723.10	-	-	738.80	15.00	0.70	-	-	-
04/13/2010	AA 5-8	R0010138	567,652.00	2,448,204.81	734.40	731.70	-	-	738.80	4.40	2.70	-	-	-
04/22/2010	193d	N/A	568,476.71	2,447,258.97	702.62	701.02	702.62	701.72	739.02	36.40	1.60	-	0.90	0.90
04/22/2010	185c	R0010528	567,691.93	2,447,822.00	713.52	712.22	-	-	739.02	25.50	1.30	-	-	-
04/23/2010	183/182d	N/A	567,558.59	2,448,154.80	715.66	715.36	-	-	739.06	23.40	0.30	-	-	-



TVA KIP Ash Recovery

Vibecore Data - No Retrieval Attempts



		GPS		Measured	
Date	Core #	N:	E:	River Elevation	River Depth
04/23/2010	184/183d	567,649.01	2,448,071.73	739.06	28.50
03/01/2010	ERM5.46R	567,805.75	2,447,720.14	736.90	28.50
03/01/2010	ERM5.46R.a	567,841.36	2,447,767.03	736.90	35.10
04/23/2010	ERM5-3	568,139.27	2,447,730.43	739.06	20.40
03/01/2010	ERM5.50	568,217.34	2,447,519.58	736.90	38.90

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



Vibecore Documentation

Date: 01/18/2010 Weather: Clear 50 degrees F, Wind SW variable Location: Above-Above Segment 5  
 Elevation: 736 73' Flow: <2,000 cfs  
 Crew: Mark Greer, Eddie Arnold, Kevin Shaw

Core #	Photo #	Tube Type	Lexane	N	E	River Depth	Time	Core Description	Interval
WTF-1	R0010145	Lexane	N	568396.22	2447257.77	29.4	14.38	Sand with layers of coal no ash	0.0-1.2
Deviations encountered: Photo R0010144 also taken									
clay loam with some sand, refused									1.2-2.0
Total Depth									2.0
WTF-3	R0010148	Lexane	N	568472.47	2447245.06	34.0	16.12	Ash	0.0-1.0
Deviations encountered:									
Sand									1.0-2.5
Dark clay loam, with refusal									2.5-3.3
Total Depth									3.3

Date: 01/19/2010 Weather: 50 F, cloudy Location: Above-Above segment 5  
 River Flow/Level: 737.0 / ~2,500 cfs  
 Crew: Walter Burns, Joel Ross, Curtis Long

Core #	Photo #	Tube Type	Acrylic	N	E	River Depth	Time	Core Description	Interval (ft)
ASS-2A	R0010202	Acrylic	N	567624.88	2447890.7	30.4	12.12	Fine and silty sand layers throughout core	0.0-4.5
Deviations encountered: Photo R0010203 also taken									
Total Depth									4.5

Date: 02/04/2010 Weather: Cloudy, high of 46 F Location: ERM 5.7  
 River Flow: 3080 cfs River Elevation: 739.08 at 189 Lakeshore dock  
 Crew: Greg Schwartz (RSI), Dave Mathis (RSI), Travis Walls (RSI), Russ Vance (RSI)

Core #	Photo #	Tube Type	6 ft acrylic	N	E	River Depth	Time	Core Description	Interval (ft)
ERM 5.72R	R0010304	6 ft acrylic	N	568498.49	2447044.1	29	11.00	<1% ash Mixed brown sand and fines with small amt. organic matter	0-1.3
Deviations encountered: Results of ash analysis sent for PLM noted as [%]									
ND ash Coarse sand with suspected coarse coal									1.3-2.2
Total Depth									2.2

Core #	Photo #	Tube Type	6 ft acrylic	N	E	River Depth	Time	Core Description	Interval (ft)
ERM 5.72L	R0010305	6 ft acrylic	N	568697.19	2447081.13	22.3	11.50	ND ash Orange sandy clay	0-0.9
Deviations encountered: Photo differs from sediment description in log book. Upon extruding of the sample, there was only clearly only one type of sediment present. Results of ash analysis sent for PLM noted as [%]									
Total Depth									9

Core #	Photo #	Tube Type	6 ft acrylic	N	E	River Depth	Time	Core Description	Interval (ft)
ERM 5.7R	R0010306	6 ft acrylic	N	568435.8	2447184.95	31.1	13.58	<1% ash Native fines and sand	0-0.1
Deviations encountered: Results of ash analysis sent for PLM noted as [%]									
ND ash Silty sand with suspected coal									0.1-0.8
Total Depth									8

Core #	Photo #	Tube Type	6 ft acrylic	N	E	River Depth	Time	Core Description	Interval (ft)
ERM 5.7L	R0010307	6 ft acrylic	N	568668.21	2447172.77	9.5	14.23	<1% ash Orange clay with fine sand and organic material	2.3
Deviations encountered: Photo differs from sediment description in log book. Upon extruding of the sample, there was only clearly only one type of sediment present. Results of ash analysis sent for PLM noted as [%]									
Total Depth									2.3

Date: 02/18/2010 Weather: Mostly cloudy Upper 30's to low 40's West winds 10 mph Location: Emory River upstream of mile 5.0.  
 River Flow: 1110 cfs River Elevation: 736.53 at Watts Bar Dam  
 Crew: David, Mathis, Travis Walls, Daniel Craze

Core #	Photo #	Tube Type	6 Acrylic	N	E	River Depth	Time	Core Description	Interval (ft)
ERM 5.74U	R0010325	6 Acrylic	N	568673.34	2446949.88	34.2	10.47	<1% ash Coarse brown sand mixed with few pieces of coal. No Ash	0-1.5
Deviations encountered: Results of ash analysis sent for PLM noted as [%]									
5% ash Brown fines, silts and clay No ash <10% organic matter. No ash									1.5-2.5
Total Depth									2.5

Core #	Photo #	Tube Type	6 Acrylic	N	E	River Depth	Time	Core Description	Interval (ft)
ERM 5.68R	R0010328	6 Acrylic	N	568319.89	2447239.69	25.5	13.57	<1% ash Brown sand mixed with native fines. No Ash	0-0.4
Deviations encountered: Results of ash analysis sent for PLM noted as [%]									
ND ash Brown fine sand. Few coal. No ash									0.4-1.2
ND ash Brown sand. No ash									1.2-1.6
ND ash Brown fines with sand mixed with 20% organic matter. No Ash									1.6-2.8
ND ash Brown coarse sand and coal pieces. Coal 80% No ash									2.8-3.4
Total Depth									3.4

Date: 02/19/2010 Weather: Mostly sunny Highs in upper 40's to lower 50's Light winds Location: Emory River upstream of mile 5.0.  
 River Flow: 1060 cfs River Elevation: 736.46 at Watts Bar Dam  
 Crew: David, Mathis, Travis Walls, Daniel Craze

Core #	Photo #	Tube Type	6 Acrylic	N	E	River Depth	Time	Core Description	Interval (ft)
ERM 5.68L	R0010329	6 Acrylic	N	568595.56	2447277.73	2.6	11.30	<1% ash Mottled red clay with common pebbles near the surface. No ash	0-0.7
Deviations encountered: Results of ash analysis sent for PLM noted as [%]									
Refusal Met at heavy clay									
Total Depth									7

Core #	Photo #	Tube Type	6 Acrylic	N	E	River Depth	Time	Core Description	Interval (ft)
ERM 5.66L	R0010330	6 Acrylic	N	568499.53	2447382.73	13.6	12.11	<1% ash Grey (reduced) clay with many pebbles. No ash	0.0-5
Deviations encountered: Results of ash analysis sent for PLM noted as [%]									
Total Depth									5

Core #	Photo #	Tube Type	6 Acrylic	N	E	River Depth	Time	Core Description	Interval (ft)
ERM 5.66R	R0010331	6 Acrylic	N	568278.63	2447370.29	30.1	12.58	1% ash Fine and coarse light brown sand mixed with coal pieces and <10% organic matter. No ash	0-2.3
Deviations encountered: Results of ash analysis sent for PLM noted as [%]									
<1% ash Brown sand mixed with native fines, coal pieces and ~10% organic matter. No ash									2.3-2.8
Total Depth									2.8



Vibecore Documentation

Date:		Weather:		Location:			
02/23/2010		Mostly cloudy Mid 40's NW winds 10 mph 50% chance of rain		Emory River upstream of mile 5.0			
River Flow: 1510 cfs		River Elevation: 736.06'		at Watts Bar Dam			
Crew: David, Mathis, Steve Bunkley, Daniel Craze							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM 5 64L	NA	6' Acrylic	N E	NA	10:53	Rock	
Deviations encountered: Multiple attempts to core ERM 5 64L were unsuccessful, due to rock on river bottom.							
							Total Depth
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM 5 64RR	R0010336	6' Acrylic	N 568069 43' E 2447500 77'	23 6'	13:16	[ND ash] Brown medium and coarse grained sands. No ash	0-1.1
Deviations encountered Results of ash analysis sent for PLM noted as [%]							
							1.1-5.4
							1.2-1.5
							Total Depth
							5.4'

Date:		Weather:		Location:			
02/24/2010		Highs in the lower 40's Northwest winds 5-15 mph 50% chance		Emory River upstream of mile 5.0			
River Flow: 1410 cfs		River Elevation: 736.38'		at Watts Bar Dam			
Crew: David, Mathis, Travis Walls, Steve Bunkley							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM 5 62R	R0010339	6' Acrylic	N 568091 12' E 2447590 43'	36 6'	11:20	[<1% ash] Orange and brown coarse grained sand mixed with coal pieces. No ash	0-0.3
Deviations encountered: Results of ash analysis sent for PLM noted as [%]							
							0.3-1.2
							1.2-1.5
							Total Depth
							1.5'
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM 5 62RR	R0010340	6' Acrylic	N 567945 64' E 2447595 59'	24 4'	12:40	[2% ash] Medium and fine grained orange and brown sand. No ash	0-0.4
Deviations encountered Results of ash analysis sent for PLM noted as [%]							
							0.4-0.7
							0.7-1.2
							Total Depth
							1.2'
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM 5 62L	NA	6' Acrylic	NA E NA	NA	12:58	Rock	
Deviations encountered:							
							Total Depth

Date:		Weather:		Location:			
02/26/2010		Mostly sunny Highs near 42 NW winds at 15 mph Gusts to 25		Emory River upstream of mile 5.0			
River Flow: 11220cfs		River Elevation: 737.2'					
Crew: David Mathis, Mark Greer, Walter Burns, Joel Ross							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM 5 38	R0010342	6' Acrylic	N 567473 06' E 2448130 43'	32 3'	11:25	<50% Ash mixed with fines	0-1.8
Deviations encountered:							
							1.8-2.4
							Total Depth
							2.4'

Date:		Weather:		Location:			
03/01/2010		Mostly cloudy		ERM 5.30			
River Flow: 950cfs		River Elevation: 736.9'					
Crew: Arnold, Bunch, Fairness, Walls							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM 5 38R	R0010344	6' Acrylic	N 567453 17' E 2447989 51'	28 9'	11:00	Brown coarse sand with some coal fragments at the lower end	0-1.3
Deviations encountered:							
							Total Depth
							1.3'
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM5 46R b	R0010345	6' Acrylic	N 567773 41' E 2447827 38'	34 1'	12:27	Coarse sand with coal	0-0.3
Deviations encountered: Core met refusal							
							0.3-0.6
							0.6-0.7
							Total Depth
							7'
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
ERM5 50	none	6' Acrylic	N 568217 34' E 2447519 58'	38 9'	14:18	Several attempts to core. Material formed a slurry each time and would stay in core tube.	
Deviations encountered:							
							Total Depth

Date:		Weather:		Location:			
04/12/2010		Sunny and breezy		Post Bathymetry AA5			
River Flow: 750cfs		River Elevation: 738.82'					
Crew: E. Arnold, K. Gassaway, C. Freshour							
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
AA5-1	R0010472	Acrylic	N 568351 54' E 2447043 9'	14 6'	10:14	Brown orange coarse sand	0.0-0.7
Deviations encountered:							
							0.7-3.7
							3.7-5.0
							5.0-5.7
							Total Depth
							5.7'
Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
AA5-2	R0010473	Acrylic	N 568252 99' E 2447169 3'	9 7'	10:51	Orange coarse sand	0.0-0.1
Deviations encountered:							
							0.1-3.6
							3.6-4.3
							Total Depth
							4.3'



Vibecore Documentation

Core #	Photo #	Tube Type	Core Coordinates		River Depth	Time	Core Description	Interval (ft)
AA5-4	R0010476	Acrylic	N. 567736.56'	E. 2447880.66'	34.2'	11:56	Brown coarse sand	0.0-2.5
Deviations encountered:								
								Total Depth
2.5'								
AA5-5	N/A	Acrylic	N. 567629.24'	E. 2447988.54'	34.1'	13:00		
Deviations encountered: Point AA5-5 is located on the channel side slope and cannot be cored. AA5-5 a was used as an alternate								
								Total Depth
AA5-5 a	R0010477	Acrylic	N. 567592.88'	E. 2447967.59'	33.1'	13:15	Coarse brown sand	0.0-1.2
Deviations encountered:								
								Total Depth
1.2'								
AA5-6 a	N/A	Acrylic	N. 568064.37'	E. 2447768.33'	30.8'	13:45		
Deviations encountered: Rock								
								Total Depth

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 5-7	R0010137	Acrylic	N. 567777.3'	E. 2448065.16'	15.1'	10:33	Mixed native fines Orange Clay	0.0 - 0.2 0.2 - 0.7
Deviations Encountered: Core met refusal								
								Total Depth
7'								
AA 5-8	R0010138	Acrylic	N. 567652.1'	E. 2448204.81'	4.4'	11:31	Native fines w/ organic material Orange Clay	0.0 - 0.5 0.5 - 2.7
Deviations encountered: Core met refusal								
								Total Depth
2.7'								
AA 5-9	R0010139	Acrylic	N. 566770.06'	E. 2449091.15'	32.1'	11:47	Brown native fines w/ organic material >50% fly ash Brown native fines w/ organic material Gray sand with native fines	0.0 - 0.4 0.4 - 1.4 1.4 - 1.7 1.7 - 2.3
Deviations encountered: Core met refusal								
								Total Depth
2.3'								

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

Core #	Photo #	Tube Type	Core Coordinates		River Depth	Time	Core Description	Interval (ft)
184/183d	N/A	Acrylic	N. 567649.01'	E. 2448071.73'	28.5'	10:09		
Deviations encountered: Location is on solid rock on the channel slope and cannot be cored								
								Total Depth
183/182d	N/A	Acrylic	N. 56755.92'	E. 2448154.8'	23.4'	10:21	Brown sand with fines	0.0-0.3
Deviations encountered: Refusal met Material slipped out of tube prior to photograph. Hard rock immediately below								
								Total Depth
3'								

Date: 04/23/2010 Weather: a.m. P/C calm, p.m. Sunny and breezy Location: AboveAbove Segment 5  
 River Flow: 384cfs River Elevation: 739.06'  
 Crew: K. Shaw, J. Trimble, C. Long

Core #	Photo #	Tube Type	Core Coordinates		River Depth	Time	Core Description	Interval (ft)
ERM5-7	N/A	6' Acrylic	N. 568083.00	E. 2447778.16	34.8'	14:05	NA	
Deviations encountered: Refusal not met ~2 ft of it brown water, no ash								
								Total Depth

# Vibecore Sampling Photos

## Above Above Segment 5 Dredge Area 2



**Core WTF-1**  
 Total core depth = 2.0'  
 Ash thickness = 0.0'  
 Water depth = 29.4'



**Core WTF-3**  
 Total core depth = 3.3'  
 Ash thickness = 1.0'  
 Water depth = 34.0'



**Core AS5-2A**  
 Total core depth = 4.5'  
 Ash thickness = 0.0'  
 Water depth = 30.4'



**Core AA5-7**  
 Total core depth = 0.7'  
 Ash thickness = 0.0'  
 Water depth = 15.0'

# Vibecore Sampling Photos

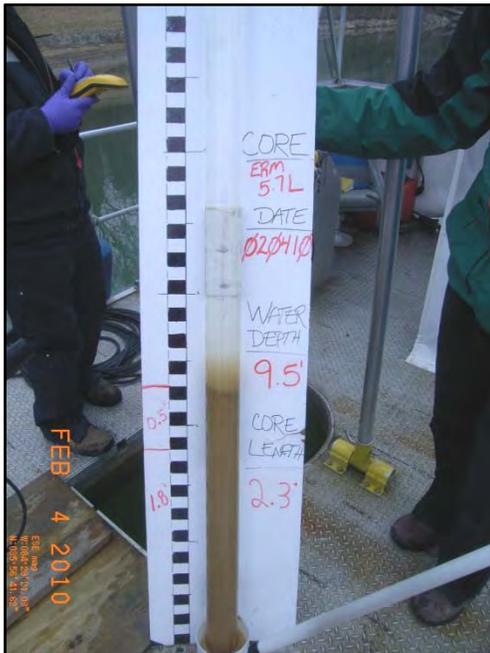
## Above Above Segment 5 Dredge Area 2



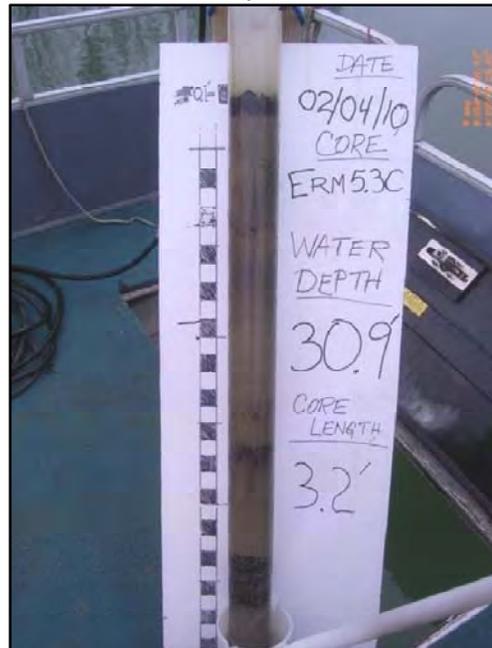
**Core ERM5.72R**  
 Total core depth = 2.2'  
 Ash thickness = 0.0'  
 Water depth = 29.0'



**Core ERM5.72L**  
 Total core depth = 0.9'  
 Ash thickness = 1.0'  
 Water depth = 22.3'



**Core ERM5.7L**  
 Total core depth = 2.3'  
 Ash thickness = 0.0'  
 Water depth = 9.5'



**Core ERM5.3-C**  
 Total core depth = 3.2'  
 Ash thickness = 0.0'  
 Water depth = 30.9'

# Vibecore Sampling Photos

## Above Above Segment 5 Dredge Area 2



Core ERM5.74U  
Total core depth = 2.5'  
Ash thickness = 0.0'  
Water depth = 34.2'



Core ERM5.68R  
Total core depth = 3.4'  
Ash thickness = 0.0'  
Water depth = 25.5'



Core ERM5.68L  
Total core depth = 0.7'  
Ash thickness = 0.0'  
Water depth = 13.6'



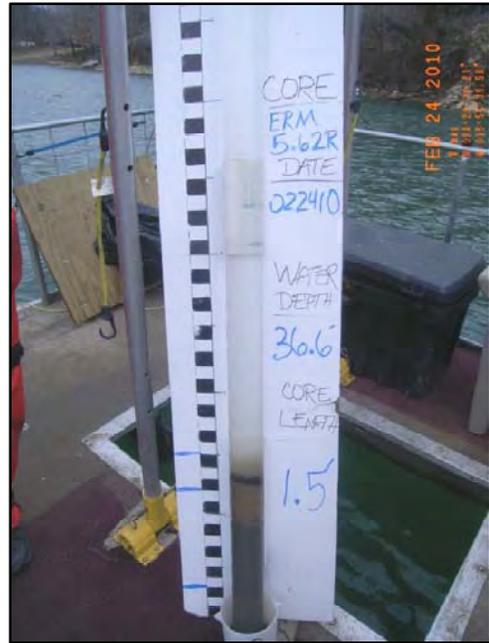
Core ERM5.66R  
Total core depth = 2.8'  
Ash thickness = 0.0'  
Water depth = 30.1'

# Vibecore Sampling Photos

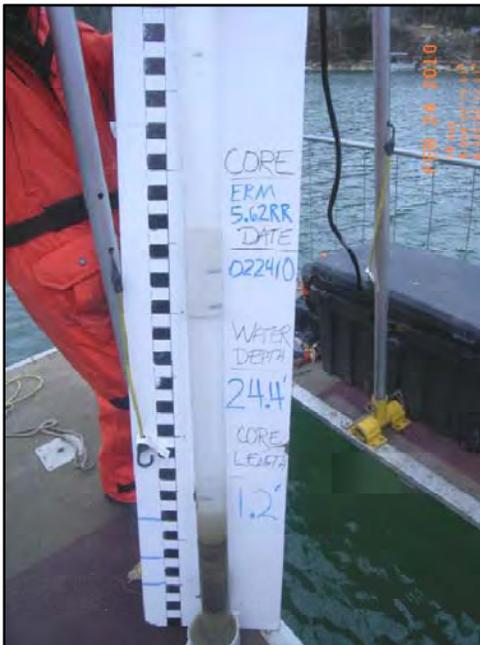
## Above Above Segment 5 Dredge Area 2



Core ERM5.64RR  
 Total core depth = 5.4'  
 Ash thickness = 0.0'  
 Water depth = 23.6'



Core ERM5.62R  
 Total core depth = 1.5'  
 Ash thickness = 0.9'  
 Water depth = 36.6'



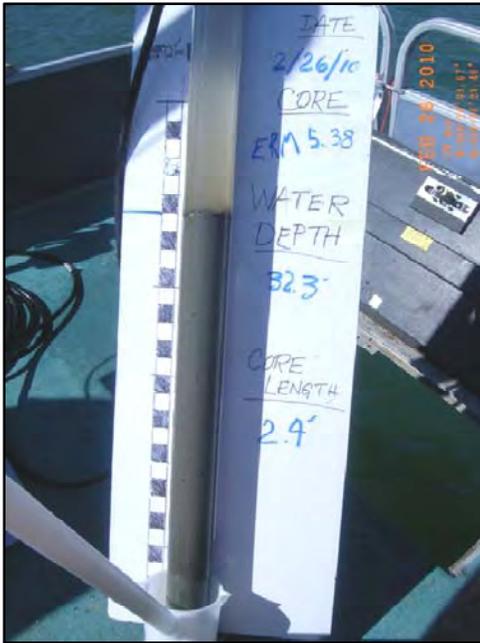
Core ERM5.62RR  
 Total core depth = 1.2'  
 Ash thickness = 0.0'  
 Water depth = 24.4'



Core AA5-8  
 Total core depth = 2.7'  
 Ash thickness = 0.0'  
 Water depth = 4.4'

# Vibecore Sampling Photos

## Above Above Segment 5 Dredge Area 2



Core ERM5.38  
 Total core depth = 2.4'  
 Ash thickness = 0.0'  
 Water depth = 32.2'



Core AA5-9  
 Total core depth = 2.3'  
 Ash thickness = 1.0'  
 Water depth = 32.0'



Core ERM5.38R  
 Total core depth = 1.3'  
 Ash thickness = 0.0'  
 Water depth = 28.9'



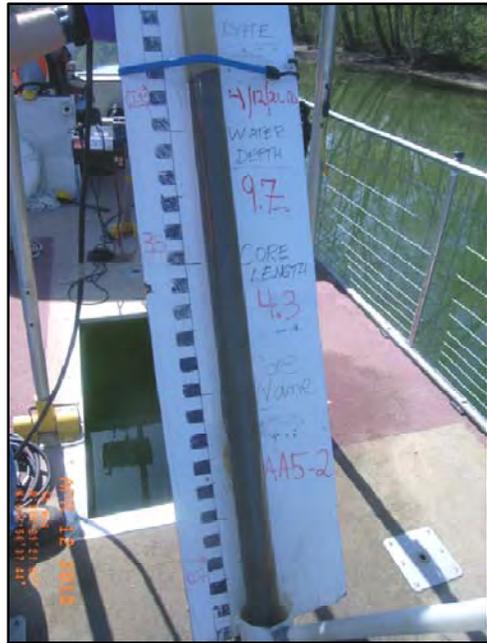
Core ERM5.4R.b  
 Total core depth = 0.7'  
 Ash thickness = 0.3'  
 Water depth = 34.1'

# Vibecore Sampling Photos

## Above Above Segment 5 Dredge Area 2



**Core AA5-1**  
 Total core depth = 5.7'  
 Ash thickness = 0.0'  
 Water depth = 14.6'



**Core AA5-2**  
 Total core depth = 4.3'  
 Ash thickness = 0.0'  
 Water depth = 9.7'



**Core AA5-4**  
 Total core depth = 2.5'  
 Ash thickness = 0.0'  
 Water depth = 34.2'



**Core AA5-5.a**  
 Total core depth = 1.2'  
 Ash thickness = 0.0'  
 Water depth = 33.1'

**Time-Critical Concurrence**

**Concurrence Comments:**

Julie L. Papp  
Jacobs Project Manager

5/26/10  
Date

Kathryn Wash  
Tennessee Valley Authority

5/26/10  
Date

L. Stranich  
U. S. Environmental Protection Agency

5/27/10  
Date

*consulted w/ TDEC*