Agreement Log #: KIF-10-044

Time-Critical Concurrence

Area:

Emory River Segment Above 5, Grids B-125, B-126, C-123 to C-126, and D-123 to D-124

Agreement:

Ash removal activities have been completed in Segment Above 5, Grids B-125, B-126, C-123, C-124, west portions of C-125 and C-126, and D-123 to D-124.

The east portions of C-125 and C-126 were covered in other concurrence.

A three dimensional model of the pre-spill surface was developed using the U.S. Army Corp of Engineers pre-spill bathymetry and vibecore data for this area. The area was hydraulically excavated using a dredge equipped with a GPS positioning system and software capable of controlled excavation to the modeled pre-spill surface.

Documentation for completion of the grids include a combination of a) results of post dredging bathymetric survey and b) Daily Dredge Reports indicating areas where the dredge to surface was not reachable. The daily dredge reports have been analyzed and annotated regarding problems reaching dredge to surface.

These results indicate that there is no remaining recoverable ash in Segment Above 5, Grids B-125, B-126, C-123 to C-126, and D-123 to D-124.

Attachments:
Figure 4, Ash Remaining to Pre-Spill Surface in Segment Above 5, dated 3/07/10
Figure 1, Ash Remaining Through Sevenson 05-16 Survey for Segment AA5, dated 5/16/10
Figure 2, Bathymetry Removal Areas –Segment A5, dated 5/17/10
Segment A5, SES Hydraulic Dredge Production Table
Segment A5, Dredging Daily Reports – Addison 4/12-4/14, Adelyn 4/5-4/10

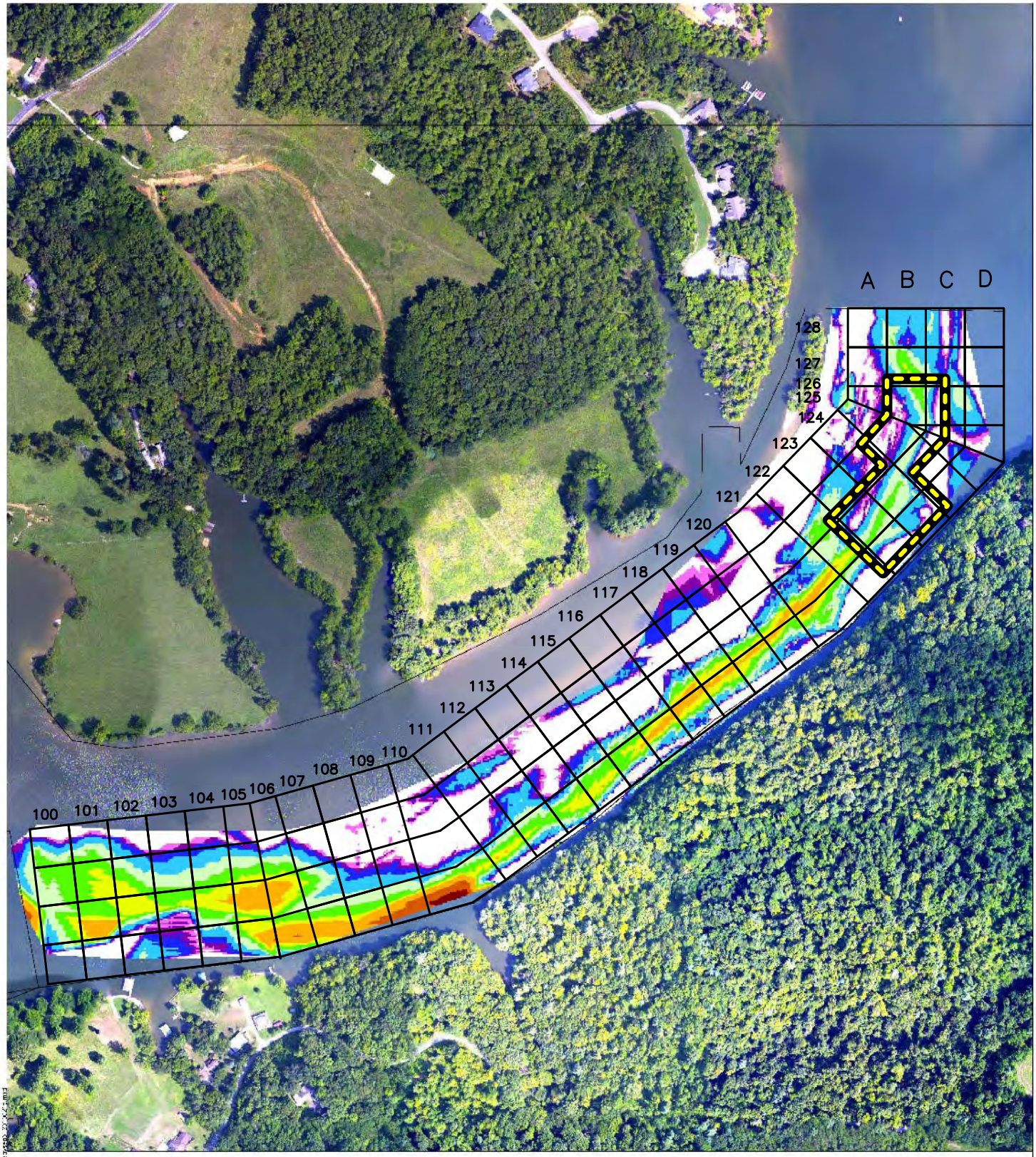
Concurrence Comments:

Julie L Pfeiffer — 5/18/10
Jacobs Project Manager — Date

Kathryn Dash — 5/19/10
Tennessee Valley Authority — Date

[signature] — 5/20/10
U.S. Environmental Protection Agency — Date

consulted w/ TDEC



Legend

Ash Remaining: ~184,467 cy

- 0 - 1 inch; ~23 cy
- 1 - 6 inches; ~903 cy
- 6 inches - 1 ft; ~2,432 cy
- 1 - 2 ft; ~7,804 cy
- 2 - 4 ft; ~25,576 cy
- 4 - 6 ft; ~34,111 cy
- 6 - 8 ft; ~41,299 cy
- 8 - 10 ft; ~34,748 cy
- 10 - 15 ft; ~28,775 cy
- 15 - 20 ft; ~6,673 cy
- >20 ft; 2,123 cy

Area of Interest

DRAFT

0 200 400 Feet

1:1,200

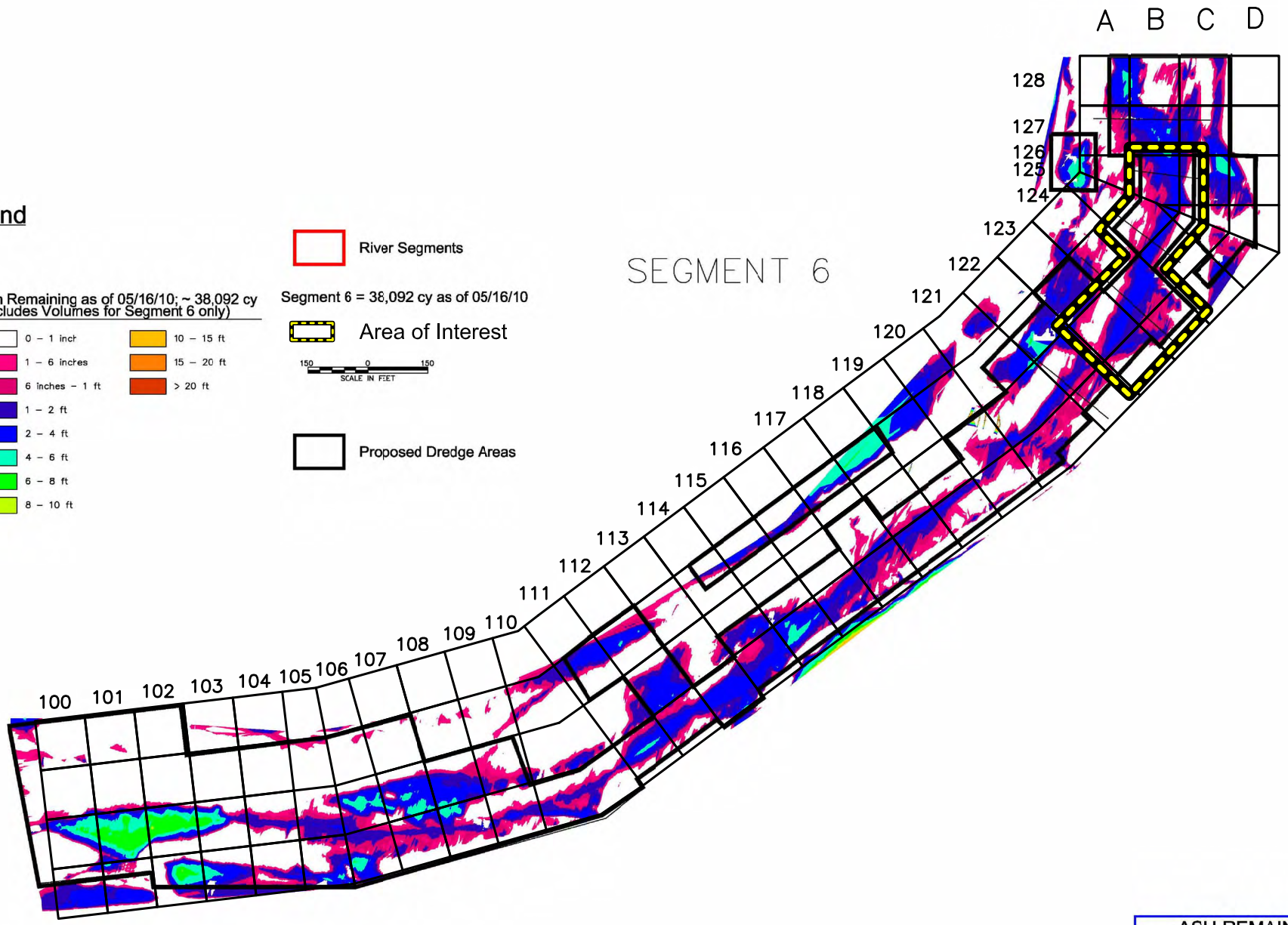
N

JACOBS

Ash Remaining to Pre-Spill Surface Above Segment 5

NAVE streets | DATE 03/02/2010

Figure 4



ASH REMAINING THROUGH SEVENSON 05-16 SURVEY

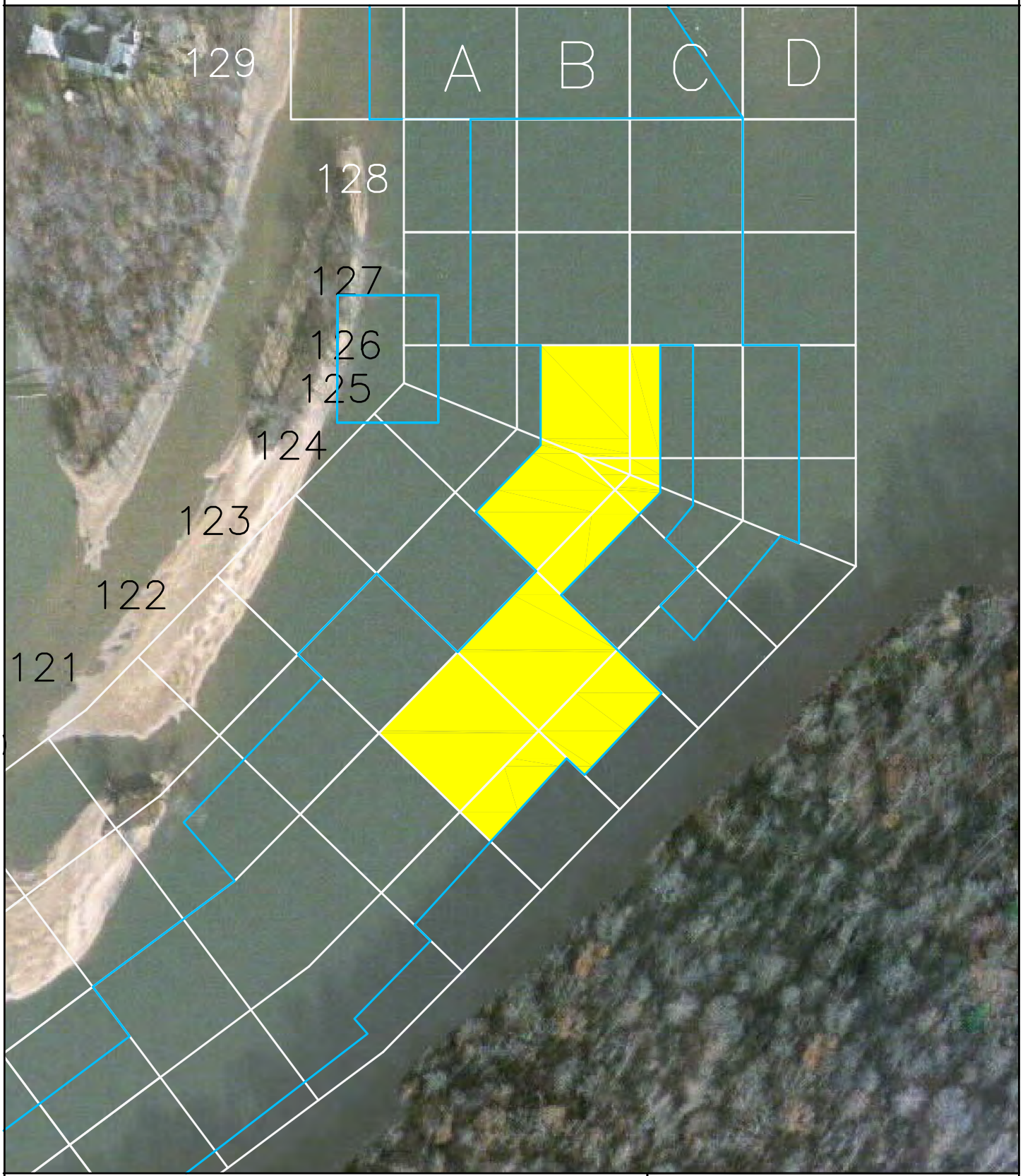
TVA
DREDGING OF THE EMORY RIVER AND ASH PROCESSING
HARRIMAN, TN

SEVENSON ENVIRONMENTAL SERVICES, INC.

DRAWING
Figure 1

DATE:	MAY 16, 2010
DRAWN BY:	DAB
CHECKED BY:	JB
CAD FILE:	volume remaining 0516seg 6

Bathymetry Removal Areas - Above Segment 5



Removed From Plan

Phase 2 Dredging Path

VibeCore Label Format:
Core Number
Ash Thickness (ft)

0 75 150 300
SCALE IN FEET

N

JACOBS™

05/17/10

Figure 1

SES Hydraulic Dredge Production

		Addison 14"							
SES Report #	Date	Rate	Dredged Hours	Down Hours	Location	Gallons	Daily Calculated Yards	Cumulative Calculated Yards	Dredge Rate cu/yds per op hr
235	04/12/2010	5,000	19.50	4.50	C-124	5,850,000	3,160	3,160	162.1
236	04/13/2010	5,000	16.00	8.00	C-123	4,800,000	768	3,928	48.0
237	04/14/2010	5,000	11.05	12.95	C-123	3,315,000	1,590	5,518	143.9

		Adelyn 14"							
SES Report #	Date	Rate	Dredged Hours	Down Hours	Location	Gallons	Daily Calculated Yards	Cumulative Calculated Yards	Dredge Rate cu/yds per hr
229	04/05/2010	5,000	6.50	17.50	C-125	1,950,000	2,765	2,765	425.4
230	04/06/2010	5,000	10.25	13.75	B,C-126,5	3,075,000	861	3,626	84.0
231	04/07/2010	5,000	0.50	23.50	B,C-126,5	150,000	19	3,645	38.0
232	04/08/2010	5,000	15.25	8.75	B,C-125	4,575,000	1,238	4,883	81.2
233	04/09/2010	5,000	7.75	16.25	D-125	2,325,000	1,096	5,979	141.4
234	04/10/2010	5,000	9.75	14.25	C-124	2,925,000	926	6,905	95.0

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge "ACE" Addison

Day Monday

Date 4/12/10

Dredge Shift: Day

Hours:

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
—	0700		5:05		1750	72	JM	Meeting, PJB + inspection, load files on computer
1205	1520	3:15	2:40		"	"	"	wait on tug to shift anchors, 1720-clean water
1800	1845	:45			"	"	"	End of shift, inspect dredge
		4:00	7:45		Total Hours			

Conditions:

Initial Flyash Thickness 1 Ft

2 ft x 30ft wide

1 Ft x 20 ft wide

NARROW SWING WIDTH & THIN INTERVAL INDICATE FINAL CUTS 05-18-10

Vegetation Light ☐ Medium ☐ Heavy ☐

Debris Light ☐ Medium ☐ Heavy ☐

# of Blockage Clears

Area Dredged: 124C

Shift Start X 2448991 Y 560641

Shift End X 2448925 Y 560563

Tons Start

Tons End

Comments: Clean cutter twice while down.

Made 21 steps

STEPS SUPPORT FINAL CUT STATUS 05-18-10

Sevenson Environmental Services, Inc.

center 220

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge Jenny / Addison

Day Monday

Date 4-12-10

Dredge Shift: Nights

Hours:

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
7:00	8:00		1:00				Tom	~~Greased~~ Greased mach check Fluids
8:00	2:40	6:40	1:5				~~Tom~~	SHIFT ANCHORS. Both
2:55	~~4:20~~	1:25			RPM		RAFAEL	STB ANCHOR DRAGGED IN & OUT OF
	4:20		:20					HYD. oil
4:40	5:30	:50			1,200	60 PSI		
5:30	7:00		1.5					
		8:55	3:05		Total Hours			

Conditions:

Initial Flyash Thickness _____ Ft

Vegetation Light ☑ Medium ☐ Heavy ☐

Debris Light ☑ Medium ☐ Heavy ☐

# of Blockage Clears _____

Area Dredged: ~~124~~-C -123-C

Shift Start X 2448925 Y 560563

Shift End X 2448870 Y 560480

Tons Start _____ Tons End _____

Comments: Dash Light Donot work ; add 10 gal of Hyd. oil

Sevenson Environmental Services, Inc.

220 center

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge Addison

Day

Date 4/13/10

Dredge Shift: Day

Hours: 489

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
0715	0715	—	335		1740	74	Murphy	Tighten Hyd fitting / Pump out compartment / Clean orface for Priming
1050	1150	1	20min					Clean Pump
1210	1315	1hr 5min	15min					Clean cutter Head
1330	1340	10min	10min					Move Port Anchor
1350	1525	1 35min	1hr 20min					load Chanel Files Move Dredge
1645	1645	—	35					GPS lost Signal
1720	1810	50min	15min					Clean cutter head
1825	1825	—						Booster 1 Down
		4hr 40min	6hr 30min		11hr 10min	Total Hours		

Conditions: 5' Average 105' Swing

Initial Flyash Thickness ~~1-3~~ Ft

Area Dredged: 1236

Vegetation Light ☐ Medium ☐ Heavy ☐

Debris Light ☐ Medium ☐ Heavy ☐

# of Blockage Clears

Shift Start X 2448870 Y 560480 At 20'

Shift End X 2448826 Y 560427

Tons Start

Tons End

Comments:

Cut 2 X 2448992 Y 560479

X 2448963 Y 560458 At 30

Cut 2 4' Ash Average

Cut 2 Swing 75' wide

Cut 2 Center 220

REDUCTION IN ASH INTERVAL AND SWING WIDTH INDICATE GETTING DOWN TO BOTTOM. 05-18-10.

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge ~~Jeremy~~ ADDISON

Day TUESDAY

Date 4-13-10

Dredge Shift: NIGHTS

Hours: 497

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
700	700	-0-	105				RAFAEL	Service Dredge
805	805	-0-	225					Booster #1 replacing fuel line
1030	1310	440	10			14	JACOB	Shifting Anchors
320	650	330				15		
					1720	20		
					1718			
		810						
		800						
		803	340		Total Hours			

Conditions:

Initial Flyash Thickness _____ Ft

Vegetation Light ☑ Medium ☐ Heavy ☐

Debris Light ☑ Medium ☐ Heavy ☐

# of Blockage Clears _____

Area Dredged: 123C - 123D

Shift Start X 2448963 Y 560458

Shift End X 2448885 Y 560379

Tons Start _____ Tons End _____

Comments:

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge ~~"ACE"~~ Addison

Day Wednesday

Date 4/14/10

Dredge Shift: Day

Hours:

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
–	0700		7:05	–	1750	72	JM	Meeting, PSB's, inspection of dredge. 0800 - waiting to move Hypack Set Down
1405	1505	1:00	:15	–	"	"	JM	Clean Cutter
1520	1635	1:15	:15	–	"	"	JM	Clean Cutter
1650	1655	:05	:15	–	"	"	Moose	GPS stopped working
1710	1810	1:00		–	"	"	Moose	Clean Cutter, Shift anchors, Pump Choke
	1840		:30					Shift End
		3:20	8:20		Total Hours			

Conditions:

See Back PLOT AND INCLUDE.

Initial Flyash Thickness _____ Ft

Vegetation Light ☑ Medium ☐ Heavy ☐

Debris Light ☐ Medium ☐ Heavy ☑

# of Blockage Clears 3

Area Dredged: 124C, 124D

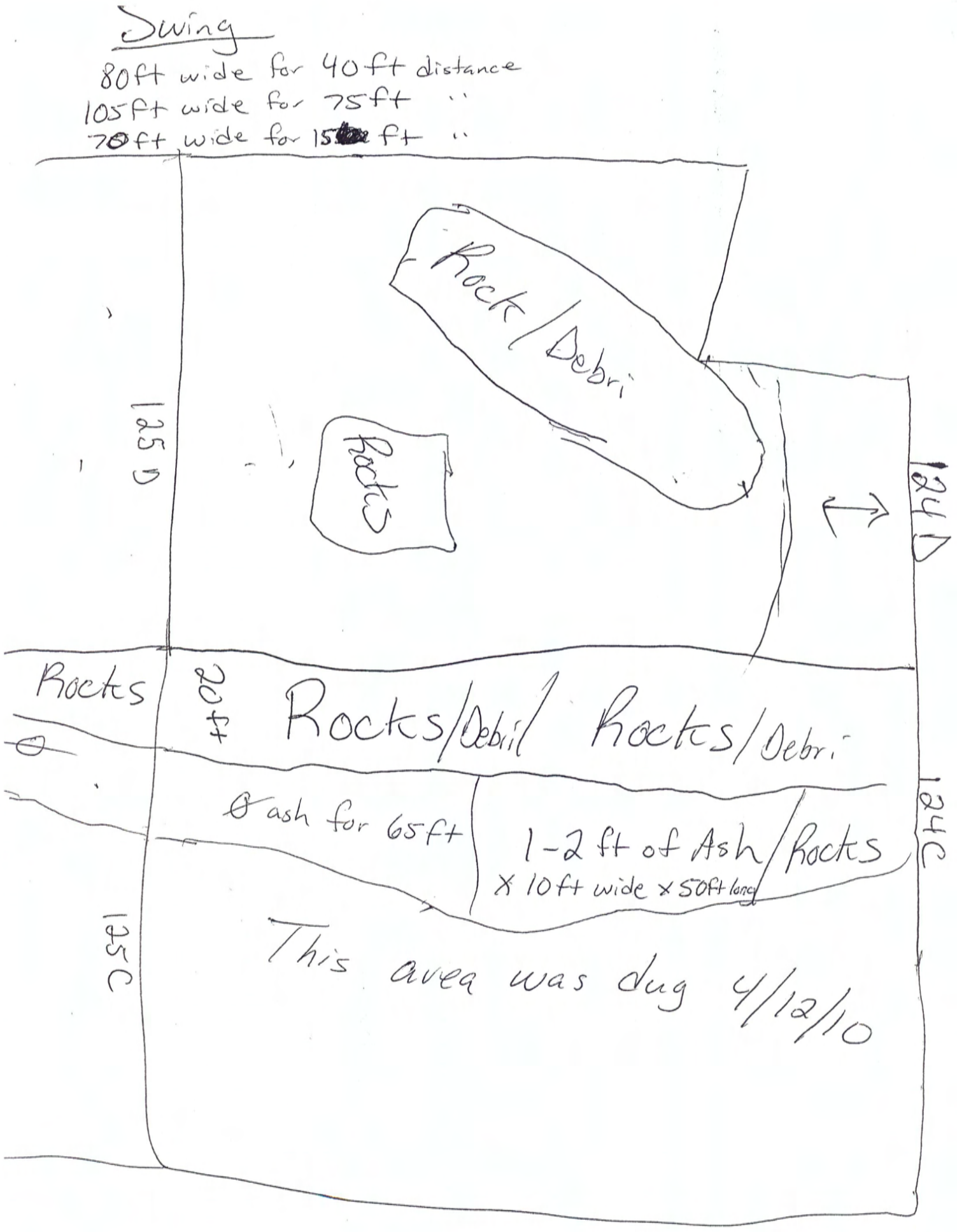
Shift Start X 2449070 Y 560589

Shift End X 2448990 Y 560498

Tons Start _____

Tons End _____

Comments: At 0945 the Hypack crashed.
Tug broke down at 16:30pm while shifting down


Swing
80ft wide for 40ft distance
105ft wide for 75ft ''
70ft wide for 150ft ''
Rock/Debri
Rocks
125D
124D
Rocks
20ft
Rocks/Debri
Rocks/Debri
0 ash for 65ft
1-2 ft of Ash/Rocks
X 10ft wide x 50ft long
124C
125C
This area was dug 4/12/10

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge #5 ~~Jenny~~ ADELAIDE

Day Wednesday

Date 4-14-10

Dredge Shift: NIGHTS

Hours: 5 14

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
1900	1900	-0-	210				RALP	servicing Dredge
2110	2215	105	110					move dredge to 124B
2325	130	205	20				JACOB	clean clutter
150	415	225	15					shift anchors.
430	440	10	15					STB anchor dragged in
455	650	155						
		740	310		Total Hours			

Conditions:

Initial Flyash Thickness 3 Ft

Vegetation Light ☑ Medium ☐ Heavy ☐

Debris Light ☑ Medium ☐ Heavy ☐

# of Blockage Clears _____

Area Dredged: 124C-D 124-B - 123B

Shift Start X 244 890 Y 560498

Shift ~~End~~ START X 2448882 Y 560645

Tons Start _____

Tons ~~End~~ START _____

Advanced 20'

end SHIFT X 2448798 Y 560557

Comments:

SES Hydraulic Dredge Production

		Addison 14"							
SES Report #	Date	Rate	Dredged Hours	Down Hours	Location	Gallons	Daily Calculated Yards	Cumulative Calculated Yards	Dredge Rate cu/yds per op hr
235	04/12/2010	5,000	19.50	4.50	C-124	5,850,000	3,160	3,160	162.1
236	04/13/2010	5,000	16.00	8.00	C-123	4,800,000	768	3,928	48.0
237	04/14/2010	5,000	11.05	12.95	C-123	3,315,000	1,590	5,518	143.9

		Adelyn 14"							
SES Report #	Date	Rate	Dredged Hours	Down Hours	Location	Gallons	Daily Calculated Yards	Cumulative Calculated Yards	Dredge Rate cu/yds per hr
229	04/05/2010	5,000	6.50	17.50	C-125	1,950,000	2,765	2,765	425.4
230	04/06/2010	5,000	10.25	13.75	B,C-126,5	3,075,000	861	3,626	84.0
231	04/07/2010	5,000	0.50	23.50	B,C-126,5	150,000	19	3,645	38.0
232	04/08/2010	5,000	15.25	8.75	B,C-125	4,575,000	1,238	4,883	81.2
233	04/09/2010	5,000	7.75	16.25	D-125	2,325,000	1,096	5,979	141.4
234	04/10/2010	5,000	9.75	14.25	C-124	2,925,000	926	6,905	95.0

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge: Adelyn

Day: Mon

Date: 4-5-10

Dredge Shift: DAYS

Hours: Main 351 Hyd. End 387

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
7:00	10:25		3:25		1600	60	[illegible]	Paper work, warm up, move Ankors
10:55	11:10	:30	:15					* Clean Dredge Pump
12:45	15:20	1:35	2:35					move Ankors
15:30	15:45	:15	:10					* clean Dredge Pump
15:55	16:05	:10	:10					* clean Dredge Pump
17:05	17:15	1:00	:10					* clean Dredge Pump
18:40		2:55						wash out shut Down
								* 1 'CLEAN PUMP' IN ONE SHIFT IS AN INDICATION OF ROCKS IN MATRIX AND APPROACHING BOTTOM. 05-18-10.
		6:25	~~[illegible]~~ 6:45		Running ~~3:55~~	Total Hours	Down 4:45	

Conditions:

Initial Flyash Thickness 7-0 Ft 92 feet wide

Vegetation Light ☐ Medium ☐ Heavy ☐

Debris Light ☐ Medium ☐ Heavy ☐

# of Blockage Clears _____

Area Dredged: 125 C

Shift Start X ~~[illegible]~~ 2449156 Y ~~[illegible]~~ 560905

Shift End X 2449082 Y 560791

Tons Start 453990 Tons End 472831

Comments:

11:55
1111.45

3:55
4:45
8:40

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge: Adelyn

Day: Tue

Date: 4-6-10

Dredge Shift: DAYS

Hours: Main 359 Hyd. Eng 398

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
7:00	8:10		1:10		1650	60	[illegible]	Paper work, warm up, computer Problems
9:30	11:30	1:20	2:00					move to 126B
11:40	11:55	:10	:15					clean Dredge Pump
12:10	12:25	:15	:15					clean Dredge Pump
12:30	13:15	:45	:45					5+30 swing Rotor Pull in
14:00	15:15	:40	1:15					move to 125 B-C
15:50	16:15	3:00	:30					clean Dredge Pumps & Booster #1 & 2
18:15								clean Dredge Pump
								Rotor Pull in
		5:10	6:50		Running 5:10	Total Hours	Down 6:10	

Conditions:

Initial Flyash Thickness: 3 Ft — 80 feet wide

REDUCED ASH INTERVAL AND SWING WIDTH INDICATE APPROACHING BOTTOM. 05-18-10

Area Dredged: 126C

Vegetation	Light	☑	Medium	☐	Heavy	☐
Debris	Light	☑	Medium	☐	Heavy	☐
# of Blockage Clears						

Shift Start X 2449082 Y 560791

Shift End X 2449059 Y 560766

Tons Start 473337

Tons End 278600

Comments:

125 B-C

X 2449003

Y 560785

484919

126B

X 2449072

Y 560965

278600

126C

X 2449003

Y 560785

484919

MW 1.10 MW 1.10

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge Adelene

Day Tuesday

Date 4-6-10

Dredge Shift: NIGHT

Hours:

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
	1945		1.45					Services Dredge Reset Anchors
2130	2145	15	1.05					STRBD S/A pulled in
2250	2305	15						
2345	0:45	1:00	1:35					ran over swing wire
02:20	05:30	3:10	:15					clean pump
545	6:00	:15						stbd AFT Anchor pulled in
		5	~~4.40~~ 7		Total Hours			

Conditions:

Initial Flyash Thickness 4' Ft — REMOVABLE IN ONE SHIFT. 05-18-10

Area Dredged: 125C

Vegetation Light ☐ Medium ☐ Heavy ☐

Debris Light ☒ Medium ☐ Heavy ☐

# of Blockage Clears 1

Shift Start X 2449097 Y 560976

Shift End X 2449066 Y 560723

Tons Start

Tons End

Comments:

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge: Adelyn

Day: Wed

Date: 4-7-10

Dredge Shift: DAYS

Hours: Main 377 Hyd. Eng 418

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
7:00	~~11:50~~	~~:35~~	~~4:45~~		1650	60	JMS	Paper work, meeting @ 8:00
~~12:25~~	18:50	:35	4:45					move All Anchors
12:25	13:15	~~:50~~	6:50					Port Aft. Anker Pulling
13:15								Dredge wont swing
					Total Hours			

Conditions:

REMOVABLE IN ONE SHIFT.

Initial Flyash Thickness: 5-6 Ft 85 ~~feet~~ wide

Area Dredged: 125 B-C

Vegetation	Light	☐	Medium	☐	Heavy	☐
Debris	Light	☐	Medium	☐	Heavy	☐

# of Blockage Clears: _____

	Shift Start	Shift End
X	2449071	2449071
Y	560725	560725
Tons	521482	521482

Comments:

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Day Thrus
Date 4-8-10

Dredge Adelyn

Dredge Shift: DAYS

Hours: Main 388 Hyd. Eng 423

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
~~[illegible]~~ 7:00	15:10	~~[illegible]~~ 8:20	8:10	?	1650	60	JMS.	wiring problem for swing wenches
16:30	17:00	1:40	8:30					clean Dredge Pump (No chain fall)
18:40		1						wash out shut down
					Down 8:40	Total Hours	Run 3:00	

Conditions:

Initial Flyash Thickness 1-6 Ft 90 feet wide — REMOVABLE ONE SHIFT.

Vegetation Light [X] Medium [ ] Heavy [ ]

Debris Light [X] Medium [ ] Heavy [ ]

# of Blockage Clears _____

Area Dredged: 125 B-C

Shift Start X 2449866 Y 560722

Shift End X 2449025 Y 560680

Tons Start 527135

Tons End _____

Comments: Got chain fall off of Dredge Kyle to take lid off pump & clean

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge: Adeline

Day: Thur.

Date: 2-8-10

Dredge Shift: Nights

Hours: 384

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
	19:00		1:40		1650		JH	service Dredge, paper work and get man from Ball Field
20:40	21:30	:50	:40		1650	61	*	Clean pump (Logs)
21:40	22:30	:50	:15		1650	45	*	Clean pump (Logs)
22:45	0:00	1:15	02:50		1650	62		move Dredge From X 2449866 Y 560593 to X 2448979 Y 560625 2/9 Hdg Top of Bank 708
02:50	04:40	1:50	:25		1654	63	*	Clean pump (Stump)
05:05	05:30	:25	:20				*	Clean pump (Stump & logs)
5:50	06:10	1:20	:10				*	Clean pump " "
16:20	06:45	:25						wash out for Crew Change
							*	5 'CLEAN PUMP'; HEAVY ROCK DENSITY IN MATRIX AND APPROACHING BOTTOM OF REASONABLY RECOVERED MATERIAL. 06-18-10.
		6:25						
		6:25	5:35		Total Hours			

Conditions:

Initial Flyash Thickness: 6 Ft

Vegetation: Light ☐ Medium ☒ Heavy ☐

Debris: Light ☑ Medium ☒ Heavy ☐

# of Blockage Clears: _____

Area Dredged: 125C

2/9 Hdg, Top of Bank 707 — 219 Hdg at 707

Shift Start: X 2449051 Y 560572

Shift End: X 2449150 Y 560416

Tons Start: _____

Tons End: _____

Comments: Moved Dredge Back and over to East to finish Block 125C (port stern Buoy wire wraped around port swing wire)

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Day Friday

Dredge Adelyn

Date 4-9-10

Dredge Shift: Days

Hours: MAIN 394 Hyd. Eng 438

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
7:00	8:10	1:35	1:10		1650	60	JWB.	Paper work, warm up, safty meeting
9:45	10:30	:40	:45					Booster #2 Problems service water Pump
11:10	12:25 40	~~:40~~	1:15					Booster #2 service water Pump
12:55	13:35 d50	~~:50~~	:40					move Back to 125 D
16:25	17:00	:40	:35					clean Dredge Pump & cutter
18:40	19 30	:40	50					wash out & shut down
		7 40	5 20		Total Hours			

Conditions:

Initial Flyash Thickness 5-6 Ft

Vegetation Light ☐ Medium ☐ Heavy ☐

Debris Light ☐ Medium ☐ Heavy ☐

# of Blockage Clears _____

Area Dredged: 125 B-C - 124C - 125D

Hyd 219/707

Shift Start X 2449150 Shift End X 2449073

Y 560416 Y 560552

Tons Start 565421 Tons End NA

Comments: SWING 100 can't get X and Y number computer Problem

REMOVABLE AT SHIFT.

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge Adelyn

Day Fri

Date 4-9-10

Dredge Shift: nights

Hours:

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
	1900							Hypack working on computer
					Total Hours			

Conditions:

Initial Flyash Thickness _____ Ft

Vegetation Light ☐ Medium ☐ Heavy ☐

Debris Light ☐ Medium ☐ Heavy ☐

# of Blockage Clears _____

Area Dredged: _____

Shift Start X _____ **Shift End** X _____

Y _____ Y _____

Tons Start _____ **Tons End** _____

Comments:

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge: Adelyn

Day: Sift

Date: ~~4-9-10~~ 4-10-10

Dredge Shift: DAYS

Hours: Main 406 Hyd. Eng. 451

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
7:00	8:45	:25	1:15		1650	60	JWS.	computer Problems
9:10	9:35	:25	:25					clean cutter
10:00	10:20	:45	:20				*	clean Pump
11:05	11:20	:10	:15				*	clean Pump
11:30	—	—						move Ankors (5)
—	—							change swing wire Port side (short)
—	15:50	:10	4:20					move to 124C
16:00	16:15	1.05	:15				*	clean Pump
17:20	17:35							lost of Heading
18:30							*	clean Pump
								1 "CLEAN PUMP"; Rock MATRIX, APPROACHING
								BOTTOM. 05-18-10
					Total Hours			

Conditions:

Initial Flyash Thickness: 0-6 Ft 100 Feet wide — ASH ONE SIDE OF GRID ONLY — INDICATION OF 05-18-10 COMPLETION.

Area Dredged: 124D 100 Feet wide

Vegetation	Light	☑	Medium	☐	Heavy	☐
Debris	Light	☑	Medium	☐	Heavy	☐

# of Blockage Clears: ____

Shift Start X 2449073 Y 560552

Shift End X 2449021 Y 560481

Tons Start N/A

Tons End N/A

Comments:

124C - 100 Feet wide

X 2449028 Y 560626 ton N/A

X 2448971 Y 560604 ton N/A

Sevenson Environmental Services, Inc.

DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge Adelyn

Day Sat.

Date 4-10-10

Dredge Shift: Nights

Hours: 413

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
	19:00							paper work, service and get Labor from Ball field
								move all anchors, no Booster
					~~1650~~			operators Helping set-up Dredges an
			6:00					moving Anchors for Jennie. got anchors moved at 000
01:00	1:30	:30	:15		1650			clean pump
1:45	2:30	:45	:20		1650			clean cutter
2:50	3:10	:20			1650			portstern Anchor pulled in, Left Dredge
6:00			3:00					to help Gary set up Dredge.
								Never got to reset Anchor
								port stern
		1:35	9:35		Total Hours			

Conditions:

Initial Flyash Thickness 0'-6' Ft — ASH ONE SIDE OF GRID. ✓ 05-18-10.

Vegetation Light ☐ Medium ☐ Heavy ☐

Debris Light ☐ Medium ☐ Heavy ☐

# of Blockage Clears _____

Area Dredged: 124 C

Hgd 21 7 at 25' Hgd 219-25'

Shift Start X 2449001 Shift End X 2448864

Y 560388 Y ? slid Back

Tons Start _____ Tons End _____

Comments: