

Time-Critical Concurrence

<p>Area: Emory River, Segment "East of Dike 2", Grids 37A1 through 37D1</p>
<p>Agreement:</p> <p>Ash removal activities have been completed in Segment "East of Dike 2", Grids 37A1 through 37D1.</p> <p>These grids were aligned along the crest of the intermediate east- west berm that sheltered land based ash removal efforts in the southern portion of the Swan Pond embayment and along Dike C. Hydraulic ash removal of the berm and underlying ash was initiated by the <i>McKenzie</i> in May and completed in June by the <i>Kylee</i> 16" dredge on June 11th and 12th and the <i>Shirley</i> 16" on June 14th and 15th. Bathymetric survey indicates that the grids have been excavated to the pre-spill surface except for the center portion of grid 37C1. A review of the <i>Kylee</i> dredge logs for the 12th and the <i>Shirley</i> logs for the 14th indicates that dredging reached the native sediment contact ("hard digging") throughout grid 37C. The dredge control screen output indicates that the cutting head was removing material to the estimated river bottom.</p> <p>Attachments: Figure 1, ETRAC/Pre-Spill Surface, dated 6/07/10 Figure 2, Ash Remaining through Severson 06-17 Survey, dated 6/18/10 Sevensen Dredge Logs with End of Shift Control Screen Prints – <i>Kylee</i> for shifts on 6/12/10 and <i>Shirley</i> for shifts on 6/14/10</p>
<p>Concurrence Comments:</p>

Julie L. Pfeiffer
Jacobs Project Manager

6/19/10
Date

Kathryn Wash
Tennessee Valley Authority

6/21/10
Date

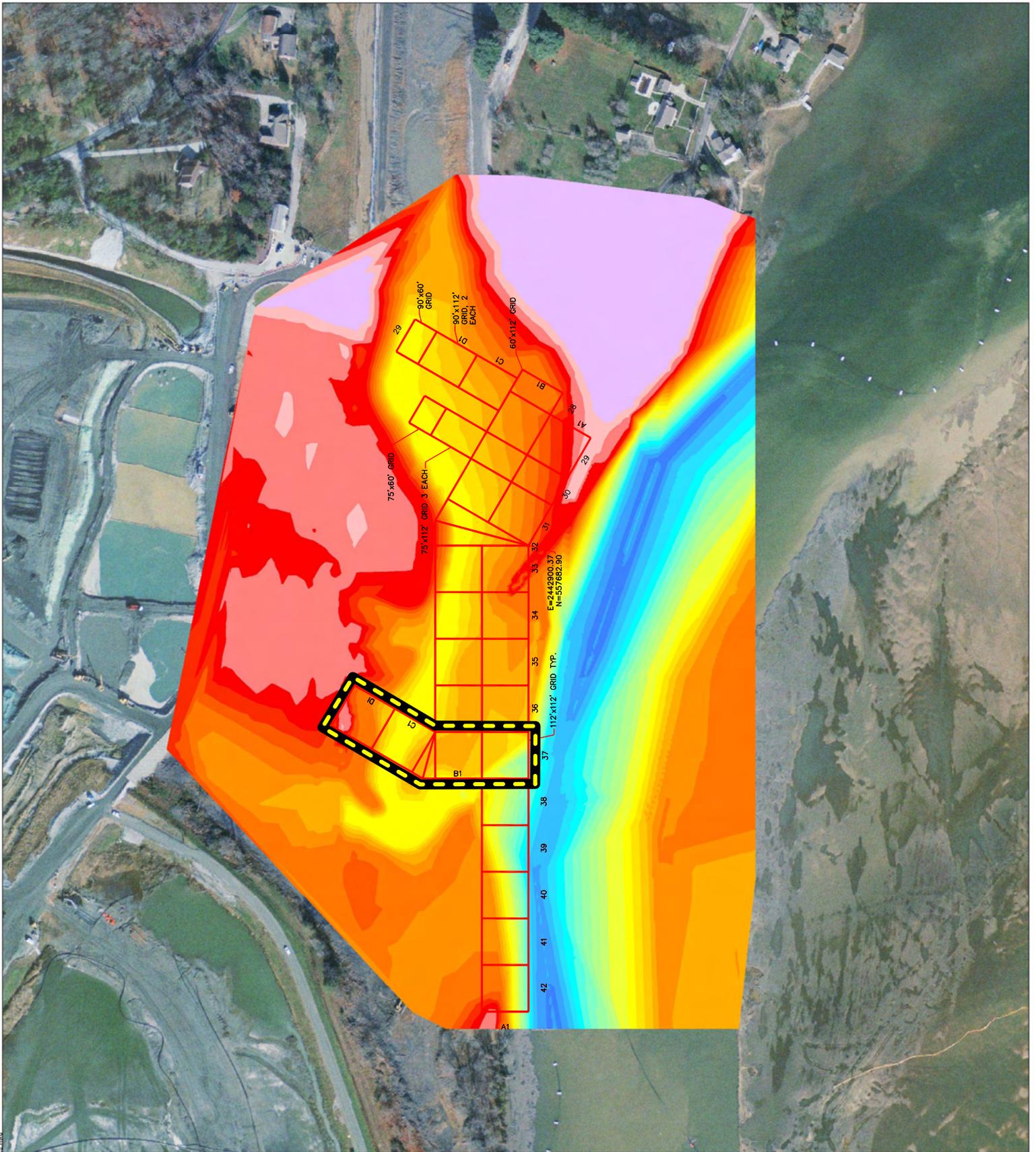
Leo Frank
U. S. Environmental Protection Agency

6/21/10
Date

consulted w/ TDEC

U. S. Environmental Protection Agency

Date



Y:\TVA\Bawad\2010\0807\010807\acc25\embayment_etrac2.mxd

Legend

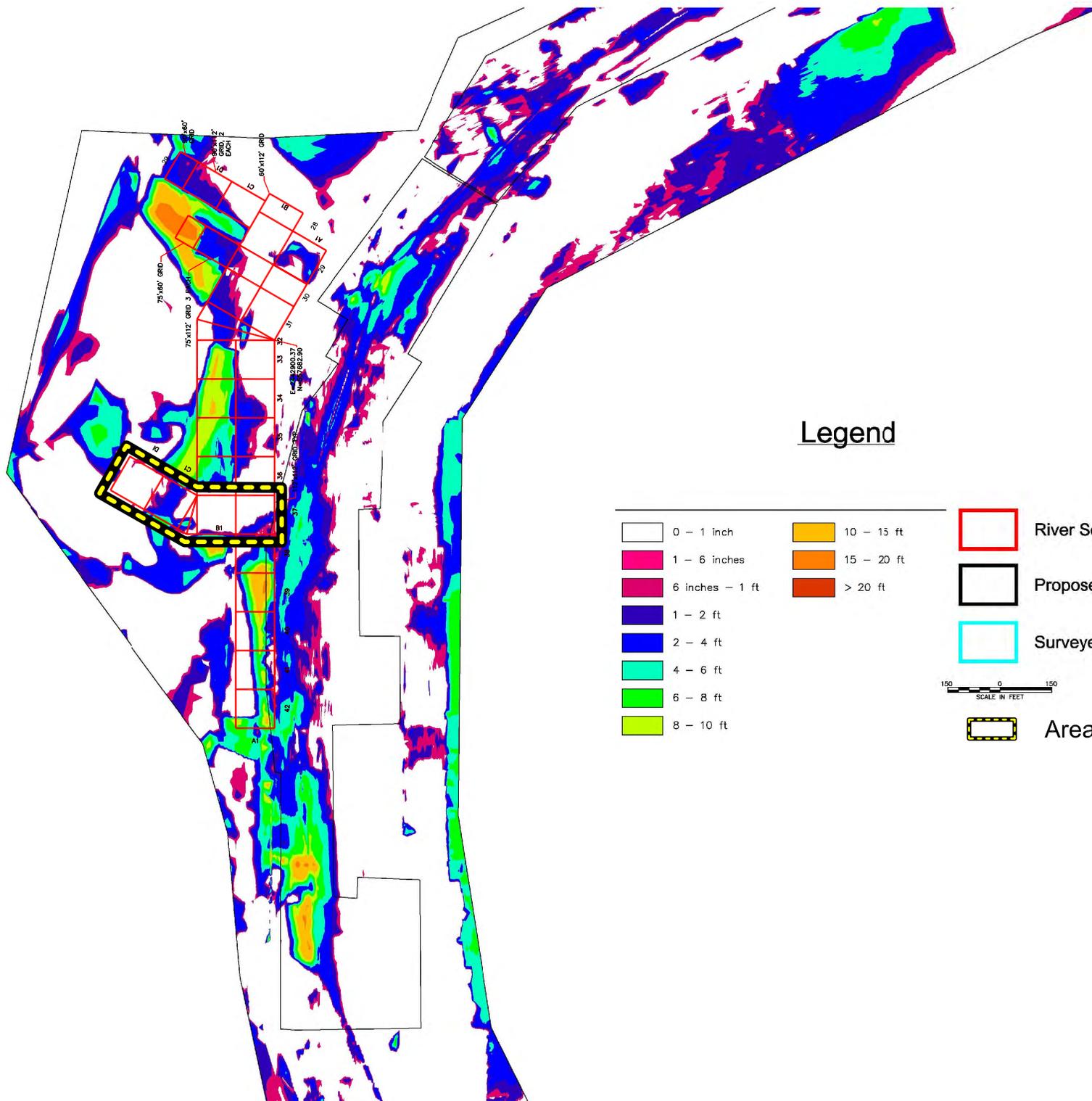
Pre-Spill Elevation Feet (ft)	728 - 728	702 - 704	Dredge Grid for Segments 1,2,3 & 5
746 - 746	724 - 726	700 - 702	Dredge Grid for Embayment Area
744 - 744	722 - 724		
742 - 744	720 - 722		
740 - 742	718 - 720		
738 - 740	716 - 718		
736 - 738	714 - 716		
734 - 736	712 - 714		
732 - 734	710 - 712		
730 - 732	708 - 710		
728 - 730	706 - 708		
	704 - 706		



JACOBS

ETRAC/Pre-Spill Surface

NAME: crosbie	DATE: 08/07/2010
Figure 1	

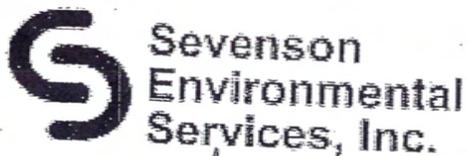


Legend

- | | | | | | |
|---|-----------------|---|------------|---|-----------------------|
|  | 0 - 1 inch |  | 10 - 15 ft |  | River Segments |
|  | 1 - 6 inches |  | 15 - 20 ft |  | Proposed Dredge Areas |
|  | 6 inches - 1 ft |  | > 20 ft |  | Surveyed Areas |
|  | 1 - 2 ft | | |  | Area of Interest |
|  | 2 - 4 ft | | | | |
|  | 4 - 6 ft | | | | |
|  | 6 - 8 ft | | | | |
|  | 8 - 10 ft | | | | |

150 0 150
SCALE IN FEET

ASH REMAINING THROUGH SEVENSON 06-17 SURVEY	
TVA DREDGING OF THE EMORY RIVER AND ASH PROCESSING HARRIMAN, TN	
 SEVENSON ENVIRONMENTAL SERVICES, INC.	
DRAWING	DATE: 06/18/10
	DRAWN BY: CML
Figure 2	CHECKED BY:
	CAD FILE: volume_remaining_0617_N
	SCALE: 1:400



DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge Lylee

Day Saturday
Date 6-12-10

Dredge Shift: day

Hours:

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
	7:00		45		1650	80	<i>JK</i>	
745	1355	6:10	155					<i>Safety meeting</i>
1550	1900	3:10						<i>Weather alert</i>
		9:20	240		12:00			Total Hours

Conditions:

Initial Flyash Thickness 13.5 Ft

Vegetation Light

Medium Heavy

Debris Light

Medium Heavy

of Blockage Clears 0

Area Dredged: C-1

110' swing

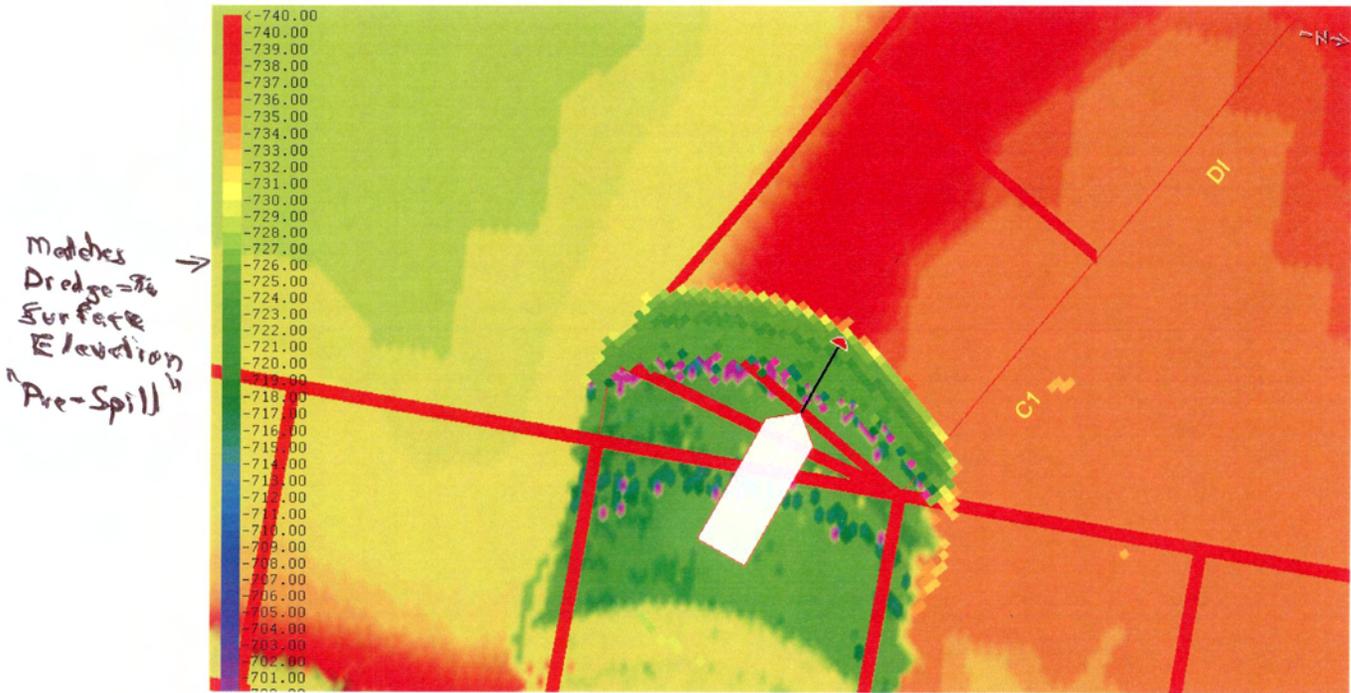
Shift Start X 2442639 Shift End X 2442624

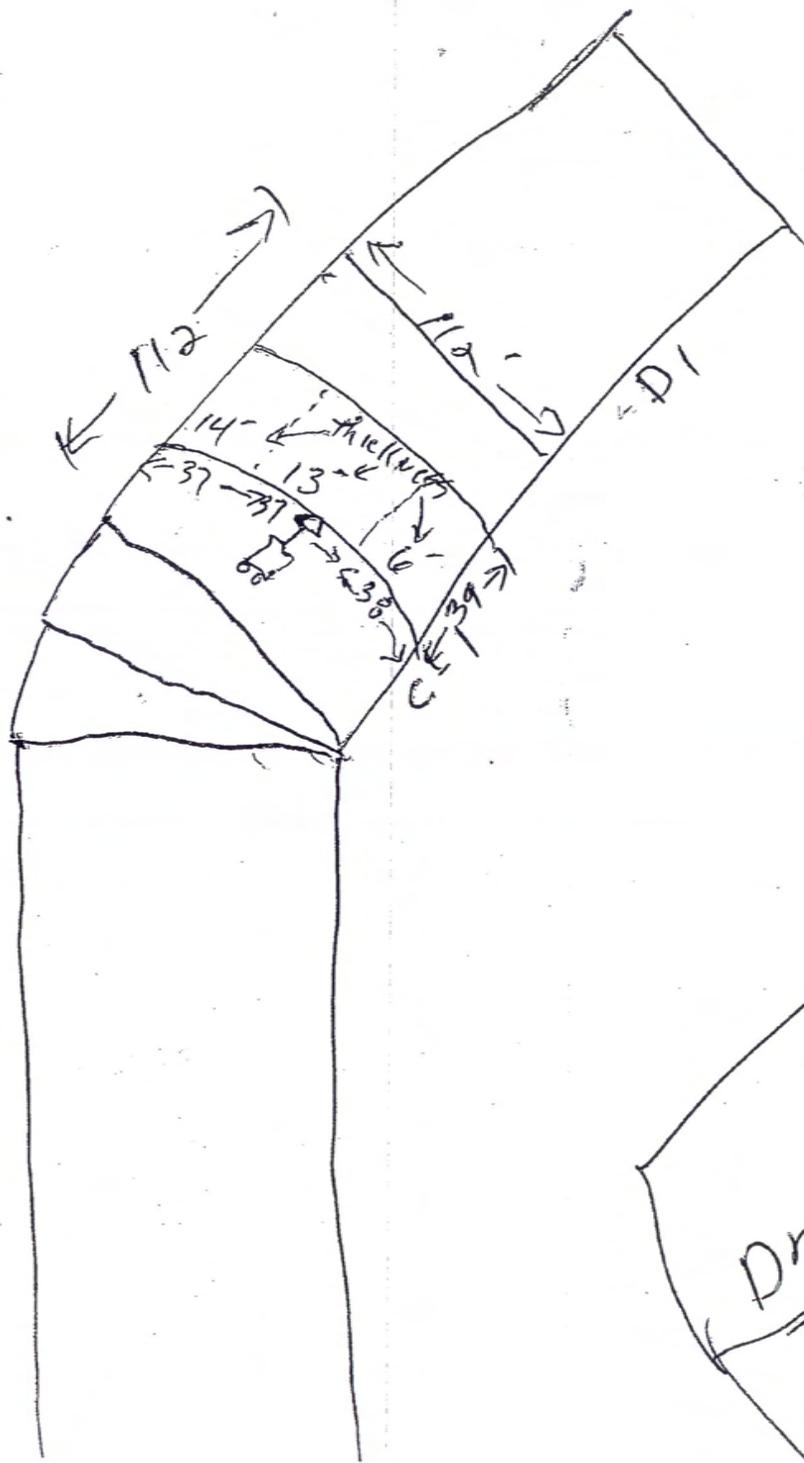
Y 5571775 Y 557203

Tons Start 5571775 Tons End 557203

Comments:

Kylee DredgePack Day Shift 6/12/10





112' wide Swing
 25° & 30° degree sets
 thickness 14' 13' - 6'

CORR. Depth 726.

Center 290'

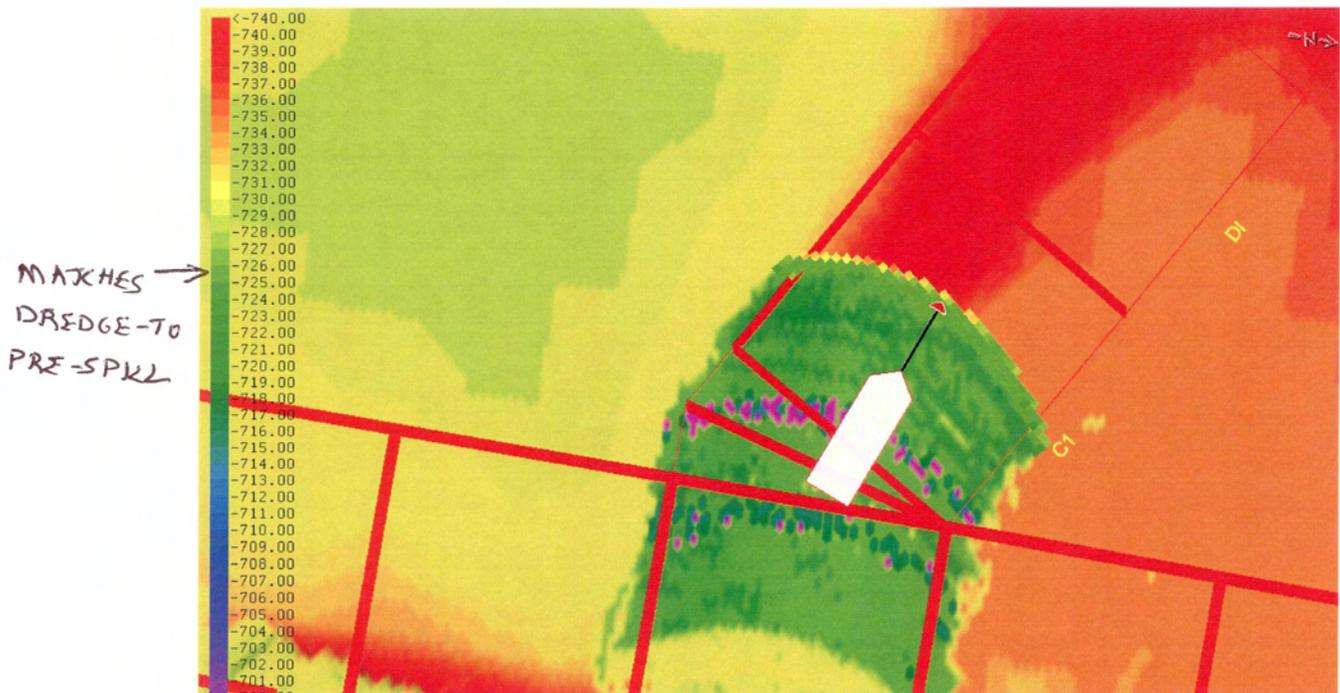
Steps
 AHEAD 20

Advance
 AHEAD 39 Feet
 (about)

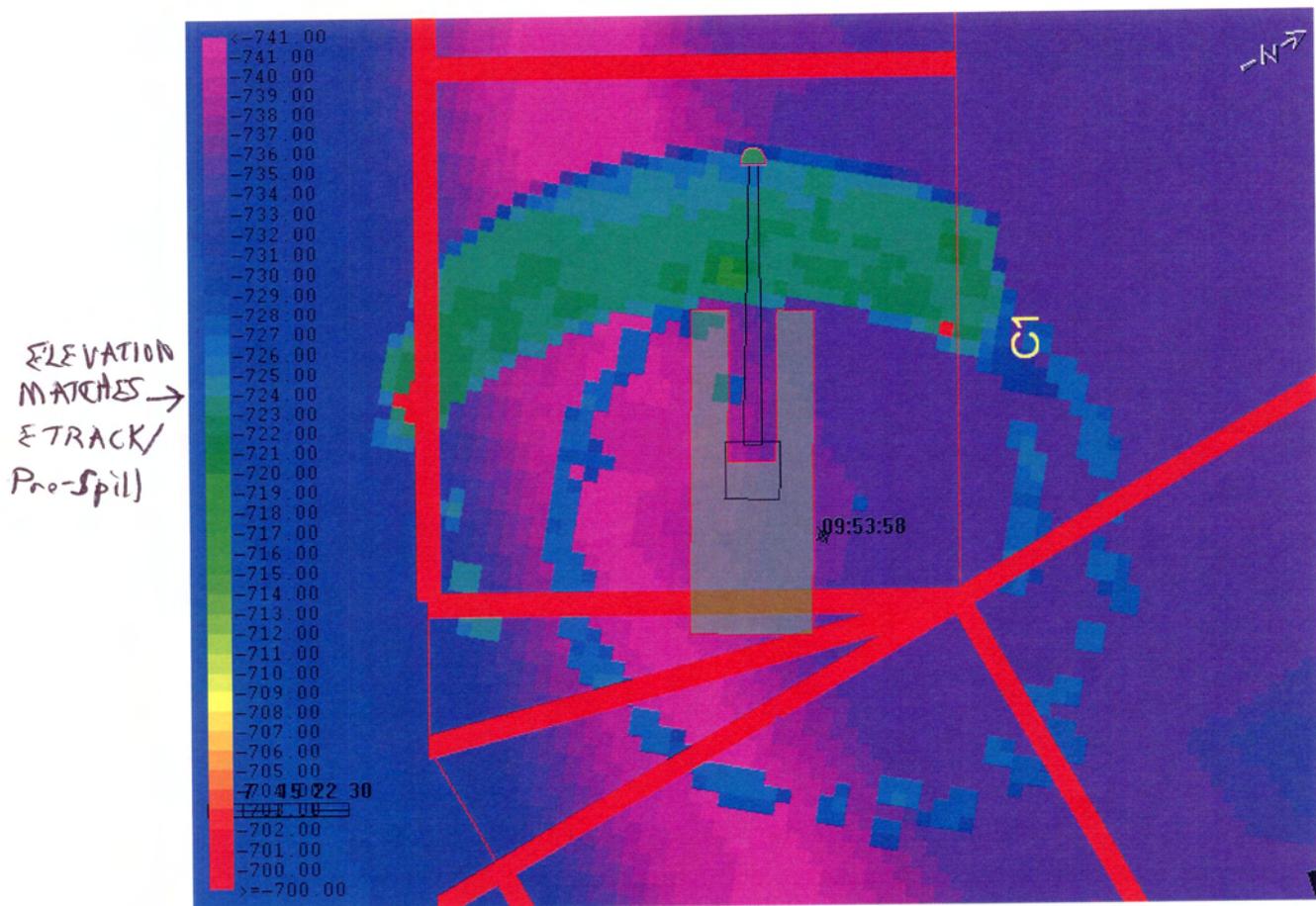
Dredge time 11 Hours
 30 min
 Down time 30 min

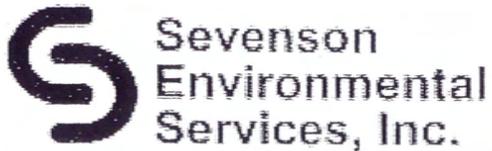


Kylee DredgePack Night Shift 6/12/10



Shirley E-Track Day Shift 6/14/10





DAILY DREDGE LOG - TVA ASH REMOVAL

Dredge SHIRLEY #7

Day 6-14-2010 Monday
Date 6-14-2010

Dredge Shift: Night 7pm-7am

Hours: 1820

Buddy/ Jason

Start Time	Stop Time	Hours Dredge	Misc	Mech Down	Avg RPM	Avg Pressure	Operator	Reason for Stopping/Downtime
1900	1915	0	50					Service dredge
1950	2020	30	10					Move Strbd S/A Closer
2030	2145	1.15	15					Clean cutter
2200	2250	50	35					Put on 7 cutter teeth
2325	0445	4.20	35					Reset Strbd S/A
0520	0650	130	10					
	0730		40					
		8.25	3.45					Total Hours

Conditions:

Initial Flyash Thickness _____ Ft

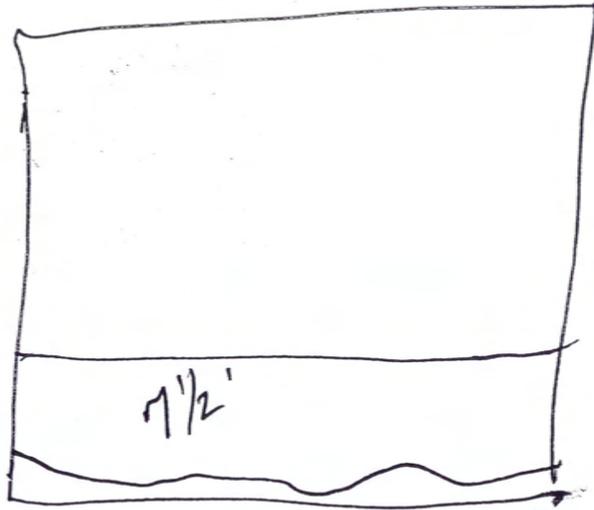
Vegetation Light Medium Heavy
Debris Light Medium Heavy

of Blockage Clears _____

Area Dredged: C1-D1

Shift Start X 2442576 Shift End X 2442539
Y 557243 Y 557263
Tons Start ~~2442576~~ Tons End _____

Comments: Digging on days with brand new cutter that had 7 teeth missing!! Installed 7 teeth



$$125 \times 45 \times 7.5 = 1563 \text{ cy}$$

Shirley E-Track Night Shift 6/14/10

