

August 26, 2010

Leo Francendese, EPA
Barbara Scott, TDEC

RE: VIBECORE SAMPLES FROM SKIMMER WALL DOCK AREA

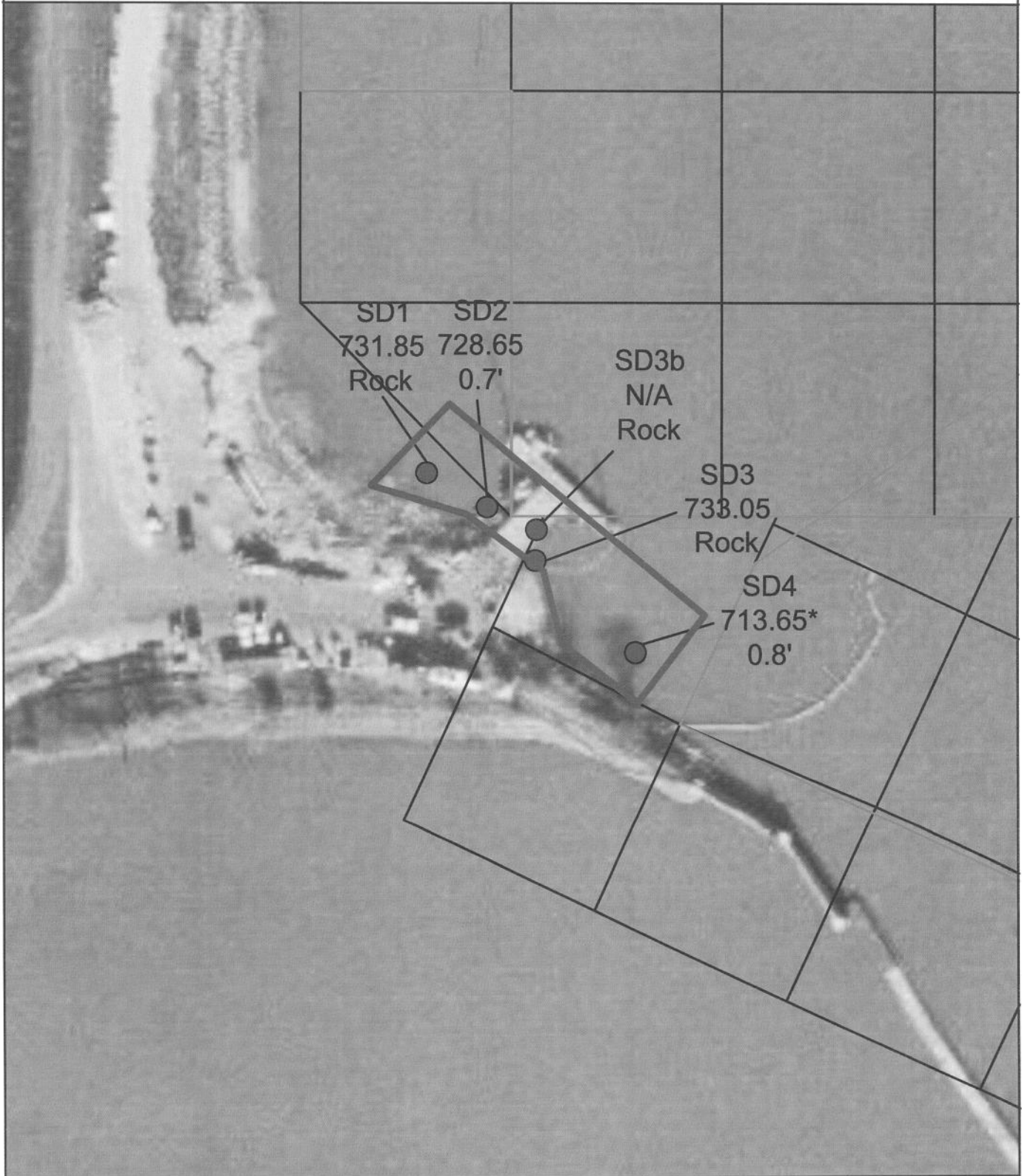
There is the potential for ash to accumulate around the unloading zone at the skimmer wall dock associated with mechanical dredging. To determine the quantity of material remaining, 5 vibecore samples were taken. Of the 5 samples, only 2 showed any ash (.7 ft and .8 ft). Using these results and projecting over the operational area of 14,000 square feet, an estimate of ash remaining is approximately 200 cubic yards. In accordance with the dredge plan, this material does not meet the criteria for removal.

Attached are the results of the samples and a map showing the area. Let me know if you have any questions.

Kathryn Nash

A handwritten signature in cursive script that reads "Kathryn Nash". The signature is written in dark ink and is positioned below the typed name.

VibeCore Sampling Results - South Dock



- Ash Recovered
- No Ash Present

VibeCore Label Format:
 Core Number
 Sediment Elevation
 Ash Thickness (ft)



* Bottomed in Ash

JACOBSTM

08/24/10

Figure 1



Vibecore Documentation

Date: 08/24/2010 Weather: Mostly sunny and breezy Location: South Severson Dock

River Flow: 276.00 River Elevation: 740.35'
 Crew: E. Arnold, D. Mathis, S. Whittier

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
SD1	NA	Acrylic	N: 554097.87' E: 2443083.52'	8.5'	9:28		
Deviations encountered: Dock is directly over original point. Point offset. Core attempted multiple times. No recovery due to gravel and riprap along stream bottom.							
Total Depth							

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
SD2	R0010743	Acrylic	N: 554077.59' E: 2443119.4'	11.1'	9:55	Ash (>50% ash)	0.0-0.7
Deviations encountered: Core met refusal							
Brown coarse sand							
Total Depth							

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
SD3	NA	Acrylic	N: 554045.85' E: 2443147.99'	7.3'	10:08		
Deviations encountered: Original point located beneath dock. No recovery. Material is rock.							
Total Depth							

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
SD3b	NA	Acrylic	N: 554064.12' E: 2443148.77'	N/A	10:23		
Deviations encountered: Another attempt SD3. Original point located beneath dock. No recovery. Material is rock.							
Total Depth							

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time	Core Description	Interval (ft)
SD4	R0010744	Acrylic	N: 553992.13' E: 2443207.44'	25.9'	15:11	Mixed fines, sand and ash (<50%)	0.0-0.4
Deviations encountered: Barge is directly over SD4. Point placed just adjacent and perpendicular to barge. Material in bottom of core is very hard and relatively dry to the touch. Core met refusal.							
Ash (>50%)							
Total Depth							