Alaska Commercial Divers, Inc.

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TLF Location: **Hamilton Island**

Subject: Log Transfer Facility Bark Monitoring Survey

Survey Date: September 15, 2000

Report Date: November 20, 2000

Survey Protocol and Analytical Methods:

The log transfer facility (LTF) was surveyed by a commercial diver for the extent and degree of lost bark as required by permit stipulation. Greg Updike of Alaska Commercial Divers, Inc; Ketchikan, Alaska was the diver for the LTF.

Five transect lines were established from the center of the entry point given to ACD, Inc. from the US Forest Service and the DGPS was noted. The transects radiated seaward with each transect arranged 30 degrees apart from one another. The transects were at bearings of 260°, 290°, 320°, 350°, and 20°. A compass bearing was established at the beginning of each transect. This bearing was followed until the end of the transect. Measurements of bark deposition depth, and percent of bark coverage was measured by the diver at 15 foot intervals along the transect. Bark depth was measured to the nearest centimeter at each station with a marked stick. If the bark was visible, but less than 1 centimeter deep, the depth was recorded as "trace". The percent of bark coverage was estimated within a 3' x 3' area in the immediate vicinity of the measuring station. Measurements were made along each transect until bark deposits were no longer visible, or until water depth exceeded 60 feet MLLW. The extent of the area covered by bark deposition is reflected by plotting the data on a scaled drawing and estimated by using the formula provided by the USFS. – and what is this? request from USFS. is it consistent w/ GP methods?

Observations and Conclusions:

when is someone going to say something about this! → *The substrate type at this site consists of mud/silt with shells. The measuring area at this site was a bowl shape with the transect depths going no deeper than 22' MLLW and the start and stop depths being about the same. Along* ***Transect One*** *an inner tube, wire, a roll of swifter cable was located. Cables, aluminum cans and a tire were found on* ***Transects Two, Three and Four.*** *Marine life was noted on twenty five of the sixty seven measuring stations. Species recorded were crab, sea stars, eels, shrimp and kelp.*

Continuous cover of bark is calculated to be.53 acres and the discontinuous coverage of bark for this area is .24. The total area surveyed was .77 acres.

their permits are for bark/wood — not for trash, metal, etc.

Reports Prepared by: *Karen Updike* Karen B. Updike

Jeani Purdy Jeani Purdy

Dives Performed by: *Greg Updike* GREG UPDIKE

LTF Survey - Transect Data Form	
Location: Hamilton Island	
Latitude: 56° 53.45 N	**Longitude:** 132° 57.00 W
Date: 9/15/00	**Time:** 1932-2107

Transect # 1
Bearing 260 °

Distance (Feet)	Bark Depth Cm	Water Depth Ft	Bark Cover %	Substrate Type	Metal or Other Foreign Items	Marine Life
0	20	12	100	unknown	Inner Tube	Sea Star
15	-	14	0	Mud & Shells	Wire	
30	1	17	0	Rock & Silt		
45	-	19	0	Mud & Shell		
60	-	20	0	Mud & Silt	Cable (swifter rolled up)	Kelp
75	-	21	0	Mud & Shell		
90	1	20	20	Mud & Shell		Kelp
105	60	19	100	Mud & Shell		
120	40	17	100	Mud & Shell		Eel, Shrimp
135	40	15	100	Mud & Shell		Eel, Shrimp
150	1	12	10	Mud & Shell		
165	4	12	70	Mud & Shell		Shrimp
180	1	7	70	Mud & Shell		Crab
195	-	5	0	Mud & Shell		Crab, Shrimp
210						
225						
240						

Transect # 2
Bearing 290 °

Distance (feet)	Bark Depth Cm	Water Depth Ft	Bark Cover %	Substrate Type	Metal or Other Foreign Items	Marine Life
0	10	12	100	Silt & Mud		
15	5	13	60	Mud	Cable	Shrimp
30	10	16	100	Mud		
45	20	17	100	Mud		
60	10	18	100	Mud & Shells		
75	10	19	100	Mud & Shells		
90	5	20	100	Mud & Shells		
105	10	19	100	Mud & Shells	Cable	Shrimp ,Crab
120	10	19	100	Mud & Shells		Shrimp ,Crab
135	10	18	100	Mud & Gravel	Aluminum Can	Shrimp ,Crab
150	5	18	100	Shell & Rock		
165	10	15	100	Shells & Gravel		Shrimp
180						
195						
210						
225						
240						
255						
270						
285						
300						

	Transect # 3 *Bearing 320 °*					
Distance (Feet)	Bark Depth Cm	Water Depth Ft	Bark Cover %	Substrate Type	Metal or Other Foreign Items	Marine Life
0	10	12	100	Mud & Silt		
15	10	14	100	Mud & Silt	Cable	Shrimp
30	10	14	100	Mud & Silt	Cable	Shrimp
45	20	17	100	Mud & Silt		
60	10	19	100	Mud & Silt	Tire	
75	5	21	100	Mud & Silt		
90	5	21	100	Mud & Silt	Cable	
105	10	20	100	Mud & Silt	Aluminum Can	
120	10	18	100	Mud & Silt	Aluminum Can	Shrimp, Crab
135	5	13	100	Mud & Silt		
150	5	12	100	Mud & Silt		
165	1	7	100	Mud & Silt		
180						
195						
210						
225						
240						
255						
270						
285						
300						

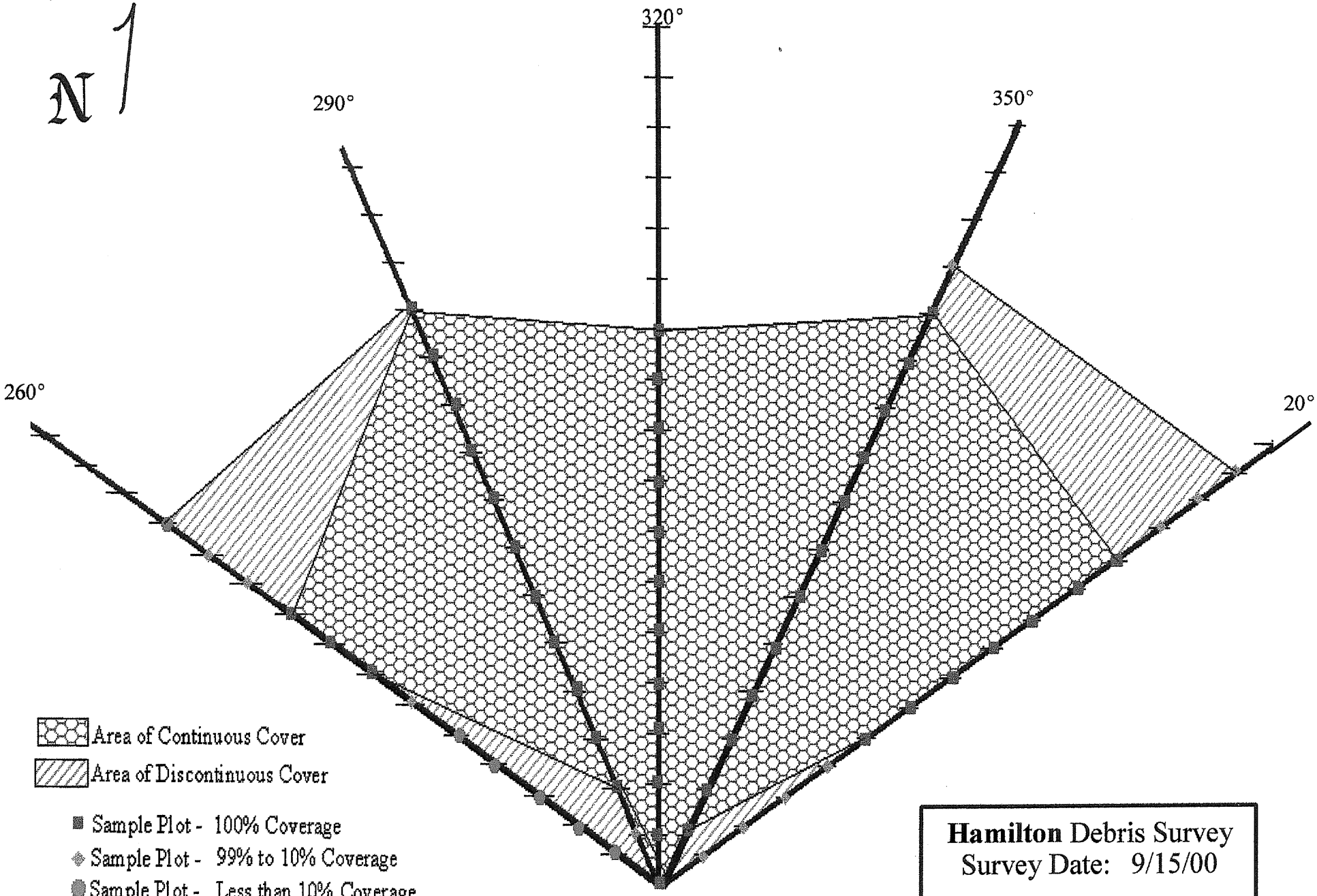
Transect # 4
Bearing 350 °

Distance (Feet)	Bark Depth Cm	Water Depth Ft	Bark Cover %	Substrate Type	Metal of Other Foreign Items	Marine Life
0	10	12	100	Rock	Cable	
15	10	14	100	Unknown	Cable	
30	20	17	100	Mud & Silt		
45	10	17	100	Mud & Silt		Crab
60	10	19	100	Mud & Silt		Crab
75	5	21	100	Mud & Gravel		
90	5	22	100	Mud & Gravel		
105	10	20	100	Mud & Silt		
120	10	17	100	Mud & Silt		
135	10	15	100	Mud & Silt	Cable	
150	5	12	100	Mud & Silt		
165	5	8	100	Mud & Silt		
180	5	7	100	Mud & Silt		
195	1	6	60	Mud & Silt		
210						
225						
240						
255						
270						
285						
300						

Transect # 5
Bearing 20 °

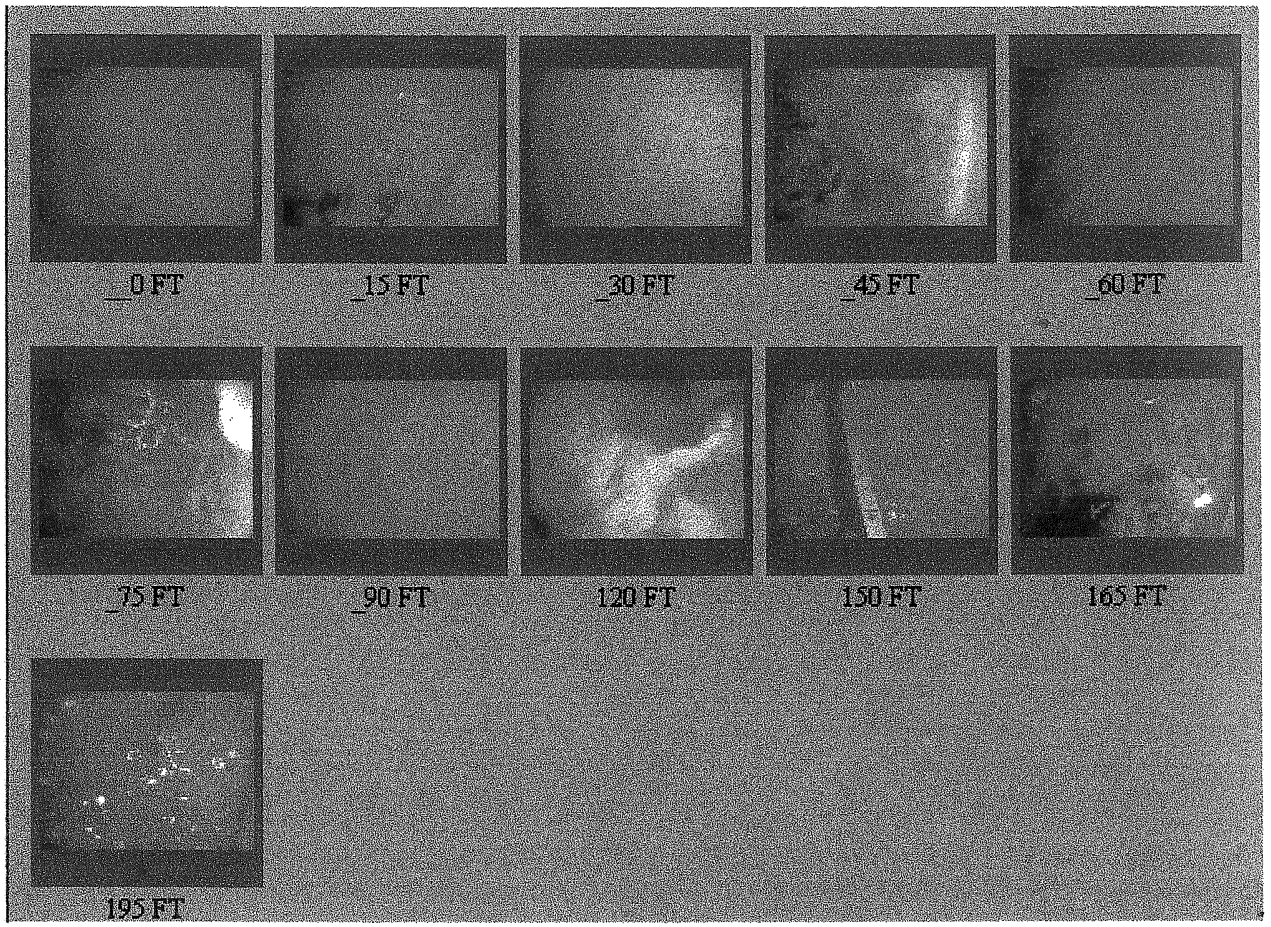
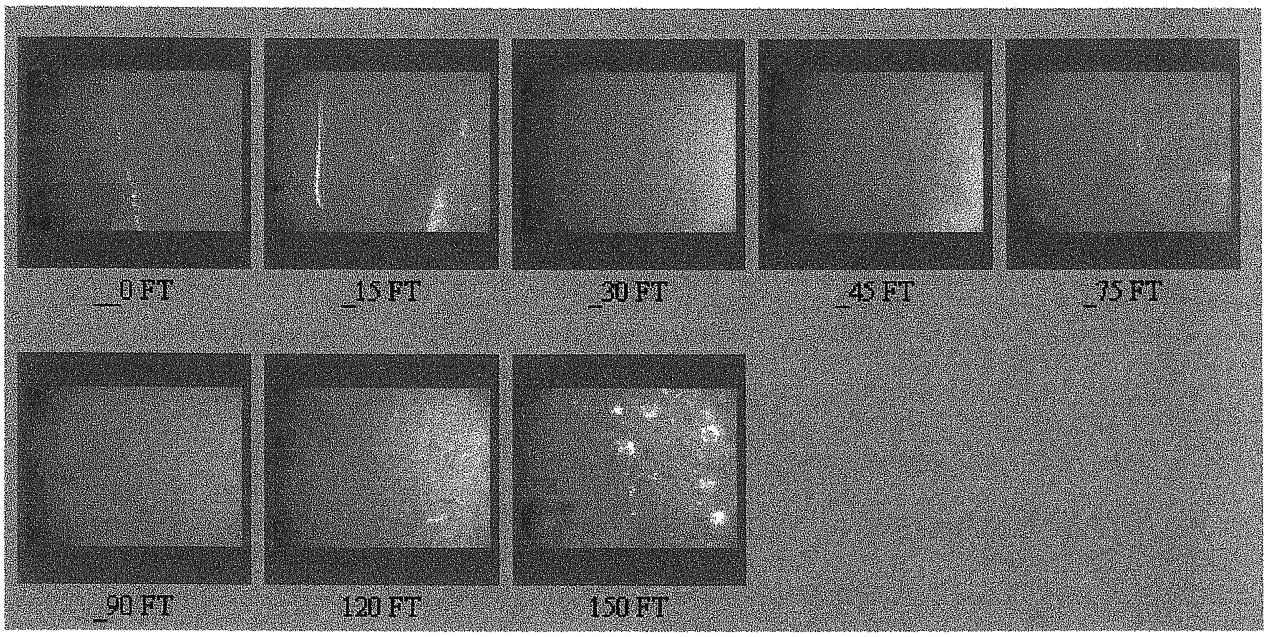
Distance (feet)	Bark Depth Cm	Water Depth Ft	Bark Cover %	Substrate Type	Metal or Other Foreign Items	Marine Life
0	20	12	100	Mud & Silt		
15	10	14	60	Unknown	Cable	
30	15	17	30	Unknown		
45	20	19	10	Unknown		Crab
60	20	19	50	Unknown		Crab
75	15	20	100	Unknown		Shrimp & Crab
90	10	20	100	Unknown		
105	10	20	100	Unknown		
120	10	21	100	Unknown		
135	10	18	100	Unknown		
150	5	17	100	Mud & Gravel		
165	5	15	100	Mud & Gravel	Rope	Crab
180	1	13	50	Mud & Gravel		
195	1	10	10	Mud & Gravel		
210	1	6	10	Mud & Gravel		
225						
240						
255						
270						
285						
300						

N 1



Hamilton Debris Survey
Survey Date: 9/15/00

Hamilton Island Transect #1
9/15/00



Hamilton Island Transect #2
9/15/00