

N^o 8

D 5385 - 5430

H 4928 - 4929

507

next

Δ

5385

Hy

~~4928~~

4929

Dredge } No. 5385 Date, March 9, 1909
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot (Lead) 35 lbs.

Turns 327 Cor'n - Depth 327 fms.

Sdg. Cup Sieber Amt. Bot'm Sample 2 oz

Character of Bottom gy M, N. 3.

Thermom. { Make Sieber No. 108015 Cor'n { Instr. .6 Stem.

Bottom Reading 63° (2) * Cor'd Temp. 62.4

Temp. Surf. { 78° Time 9:51 a } Air { 82°
78° Time 10:10 a } 82°

Density: Surf. - fms. -

Wind: Direction Variable Force 1

Baromet. 29.97 Amt. of Clouds 5 State of Sea S.

Weather bes

Direction and Force of Current { Surface - Bottom -

Tide -

General Locality Mouth of Ragay Gulf, S. Luzon

Refugio I. N 2 W - Carabang I. N 47 W

Position 13-2450 N - 123-03-70 E.

Chart used: No. 4715 Ed'n -

Drift: Direction N-47° W Distance 1.6

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz; 4 floats, wing & tail weights, mudge.

Time towing - h. 13 m.

Remarks: *) Thermometer was loose up to some

Deck Officer J. F. DeLong Recorder A. R. ...

SOUNDING WIRE.

FMS.

DREDGING CABLE.

a. M. Down. Up. a. M.

a. M. Down. Up. a. M.

9 14 25 9 25 25 0
 20 10 24 50 100
 21 00 24 05 200
 22 00 23 20 300

9 22 20 9 23 00 327 400
 500
 600
 700
 800

9 29 20 10 39 30
 38 50 35 55
 35 55 32 15
 39 00 28 30
 41 45 24 50
 44 40 20 10
 47 40 16 25
 9 50 25 12 40
 9 54 00 10 06 55

72

Arana Pt, Luzon

8 61 M
 23.7 m

24-15

3-45

2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900

Dredge } No. 5386 Date, March 9, 1909
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Leads 30 lbs.

Turns 287 Cor'n _____ Depth 287 fms.

Sdg. Cup Siegel & Co. Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make N.Z. Cor'n { Instr. 6
 { No. 108015 { Stem. _____

Bottom Reading 63° Cor'd Temp. 62.4

Temp. Surf. { 52° Time 3:33 P } Air { 83 1/2°
 { 87 Time 4:40 P } { 83

Density: Surf. 1.02487 fms. _____

Wind: Direction Various Force 0-1

Baromet. 29.45 Amt. of Clouds 2 State of Sea S

Weather bc.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Pagan Gulf Luzon

Suboon 2 CWB 110W Cebu Bay 2 N 6.1 E

Position 13-38-30 N - 122-44-30 E

Chart used: No. 4715 Ed'n _____

Drift: Direction N 30 E Distance 1.3

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., 4 glass floats, 2 wing weights, 1 tail weight, 1 mud bag.

Time towing _____ h. _____ m.

Remarks: accumulator registered as high 1/2 tons net came up badly torn

Deck Officer Mr. Robinson Recorder C. H. Long

Mr. Johnston 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
3 22 30	3 28 30		0	3 31 20	4 36 30	
3 23 25	3 27 45		100	3 34 40	32 10	
3 24 20	3 27 00		200	3 37 30	28 15	
3 25 10	3 26 10	287	300	3 40 30	24 05	
			400	3 44 20	17 00	
			500	3 47 50	12 30	
			600	3 50 30	06 30	
			700	3 54 30	4 07 30	
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

74

Puerto Rico, Luzon 140 Or
 44-36 10 mi

Dredge } No. 5387. Date, Mar. 11, 1909

Sdg. Mch. Lucas Reel Lucas Shot } 35 lbs.

Turns 209 Cor'n - Depth 209 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 2 1/2 g.

Character of Bottom sft gm M.

Thermom. { Make N.S. Cor'n { Instr. 16

Bottom Reading 53° Cor'd Temp. 52.4

Temp. Surf. { 79° Time 1:30p } Air { 85.5°

Density: Surf. 1.02503 - fms. -

Wind: Direction ENE Force 3

Baromet. 29.85 Amt. of Clouds 8 State of Sea S

Weather Very

Direction and Force of Current { Surface - Bottom -

Tide -

General Locality Between Durian and Luzon

Mayon Volcano N 44 E - Itaco Pt N 31 W

Position 12-54-40 N - 123-20-30 E

Chart used: No. 4715 Ed'n -

Drift: Direction N 44 E Distance 0.8 m.

Depth of Haul Bottom

Apparatus and Rig used As before. Also #2 Koffid towing about 10 ft below surface, from ship's side.

Time towing - h. 20 m.

Remarks: The string of 4 glass floats was thrown over the beam when trawl came up.

K2 towed alongside buoy as recorded above in proper place.

Deck Officer J.T. Polange Recorder J.T. Polange

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
P. M. Down.	Up.	P. M.			P. M. Down.	Up.	P. M.	
1 04 00	1 08 40			0	1 13 00	2 04 00		
04 50	07 55			100	17 00	2 00 00		
05 40	07 12			200	20 20	56 30		
1 05 45	1 07 10			209 300	23 40	53 10		
				400	1 28 00	49 20		
				405 500	1 40 20			
				425 600	1 42 00	1 48 00		
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

79

Center

Bagatao Lt

280 fms
27 mi

SK-30

Dredge } No. 5388 Date, Mar 11, 1909.

Sdg. Mch. Lucas Reel Lucas Shot/Lead 35 lbs.

Turns 226 Cor'n - Depth 226 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 2 1/2 oz.

Character of Bottom sft gy M.

Thermom. { Make T-3. Cor'n { Instr. 6
No. 108015. Stem.

Bottom Reading 52° Cor'd Temp. 51.4

Temp. Surf. { 79° Time 3:13 p. } Air { 85°
78° Time 3:36 p. } 84°

Density: Surf. - - - fms. -

Wind: Direction ESE Force 3-2

Baromet. 29.83 Amt. of Clouds 9 State of Sea S

Weather haze.

Direction and Force of Current { Surface -
Bottom -

Tide -

General Locality Bet. Burin and Luzon

Myon Vol. N31E - Cabarian Pt N38W

Position 17-51-30 N - 123-26-15 E

Chart used: No. 4715 Ed'n -

Drift: Direction N67E Distance 1.5 m.

Depth of Haul Bottom

Apparatus and Rig used As before, #2. T50ft also.

Time towing - h. 26 m.

Remarks:

K2 towed alongside and recorded under "Apparatus and rig used".

Deck Officer M. Rozay Recorder A. Attili

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

49 20 54 10
 50 15 53 20
 51 10 52 30
 52 00 52 40

0
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900

2 17 57
 3 01 00
 4 05 00
 5 09 00
 6 13 00
 7 17 00
 8 21 00
 9 25 00
 10 29 00
 11 33 00
 12 37 00
 13 41 00
 14 45 00
 15 49 00
 16 53 00
 17 57 00
 18 01 00
 19 05 00
 20 09 00
 21 13 00
 22 17 00
 23 21 00
 24 25 00
 25 29 00
 26 33 00
 27 37 00
 28 41 00
 29 45 00
 30 49 00
 31 53 00
 32 57 00
 33 01 00
 34 05 00
 35 09 00
 36 13 00
 37 17 00
 38 21 00
 39 25 00
 40 29 00
 41 33 00
 42 37 00
 43 41 00
 44 45 00
 45 49 00
 46 53 00
 47 57 00
 48 01 00
 49 05 00
 50 09 00
 51 13 00
 52 17 00
 53 21 00
 54 25 00
 55 29 00
 56 33 00
 57 37 00
 58 41 00
 59 45 00
 60 49 00
 61 53 00
 62 57 00
 63 01 00
 64 05 00
 65 09 00
 66 13 00
 67 17 00
 68 21 00
 69 25 00
 70 29 00
 71 33 00
 72 37 00
 73 41 00
 74 45 00
 75 49 00
 76 53 00
 77 57 00
 78 01 00
 79 05 00
 80 09 00
 81 13 00
 82 17 00
 83 21 00
 84 25 00
 85 29 00
 86 33 00
 87 37 00
 88 41 00
 89 45 00
 90 49 00
 91 53 00
 92 57 00
 93 01 00
 94 05 00
 95 09 00
 96 13 00
 97 17 00
 98 21 00
 99 25 00
 100 29 00

80

6

57-09

Dredge } No. 5322 Date, 7/12/1907

Sdg. Mch. _____ Reel _____ Shot } Lead } lbs.

Turns 2 Cor'n _____ Depth 109 to 80 fms.

Sdg. Cup _____ Amt. Bot'm Sample (Chart)

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____ No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 76° Time 1:29 } Air { 76° }
 { 78° Time _____ } { 78° }

Density: Surf. _____ fms. _____

Wind: Direction Various Force 0-1

Baromet. _____ Amt. of Clouds 10 State of Sea _____

Weather Bkfy

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality (Longitude) 121° 45' E; (Latitude) _____

_____ 27° 45' S; _____

Position 121° 45' E; 27° 45' S

Chart used: No. 4219 1000 Ed'n

Drift: Direction N. 79° E. Distance 1.6 mi.

Depth of Haul 40 to 50 fath

Apparatus and Rig used _____

Time towing h. 17 m.

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

SOUNDING WIRE.			FMS.	DREDGING CABLE.						
M. Down.	Up.	M.		M. Down.	Up.	M.				
			0	1	32	00	2	07	55	
			50 100	1	35	30				
			70 200	1	37	50				
			100	300	1	45	30	2	02	30
			400							
			500							
			600							
			700							
			800							
			900							
			1000							
			1100							
			1200							
			1300							
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			2800							
			2900							
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			3700							
			3800							
			3900							
			4000							
			4100							
			4200							
			4300							
			4400							
			4500							
			4600							
			4700							
			4800							
			4900							

82

Regulator

20 20

38 44

140 200

Dredge } No. *1273* Date, *(1909)* 19*09*
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth *54* fms. *lath*

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { *78°* Time *2:45* } Air { *75°*
 { *74°* Time *3:20* }

Density: Surf. _____ fms. _____

Wind: Direction *various* Force *0-1*

Baromet. *29.83* Amt. of Clouds *10* State of Sea *1*

Weather *bc*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position *12° 30' 54" N. 123° 51' 30" E.*

Chart used: No. *4219* Ed'n _____

Drift: Direction *N 58° E* Distance *1.6* mi.

Depth of Haul *54* lath

Apparatus and Rig used _____

Time towing _____ h. *26* m.

Remarks:

Deck Officer _____ Recorder *C. C. O'Donoghue*

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

83

20-36

51-5

17 1/2

0	2	57	30	2	27	20
100	2	56	00	2	22	20
200						
300						
400						
500						
600						
700						
800						
900						
1000						
1100						
1200						
1300						
1400						
1500						
1600						
1700						
1800						
1900						
2000						
2100						
2200						
2300						
2400						
2500						
2600						
2700						
2800						
2900						
3000						
3100						
3200						
3300						
3400						
3500						
3600						
3700						
3800						
3900						
4000						
4100						
4200						
4300						
4400						
4500						
4600						
4700						
4800						
4900						

Dredge } No. _____ Date, 7. 15, 19__

Sdg. Mch. 20 Reel _____ Shot } lbs. _____
Lead } _____

Turns _____ Cor'n _____ Depth 118 ^{Chart} fms. _____

Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom fine

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 77 } Time 9:10 A } Air { 77
 { 77 } { }

Density: Surf. _____ fms. _____

Wind: Direction N.E. Force 1

Baromet. 29.73 Amt. of Clouds 9 State of Sea L

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality B

Position 13-15-251 ³

Chart used: No. _____ Ed'n 17

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used 12' ...

Time towing _____ h. 20 m.

Remarks: A ...

SOUNDING WIRE.

M. Down. Up. M.

DREDGING CABLE.

FMS.

A M. Down. Up. A M.

86

0	8	54	00	7	29	20
100		58	00	7	32	45
200	9	00	50	7	32	
300	9	02	30			
400	8	07	00	7	27	00
500						
600						
700						
800						
900						
1000						
1100						
1200						
1300						
1400						
1500						
1600						
1700						
1800						
1900						
2000						
2100						
2200						
2300						
2400						
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2600						
2700						
2800						
2900						
3000						
3100						
3200						
3300						
3400						
3500						
3600						
3700						
3800						
3900						
4000						
4100						
4200						
4300						
4400						
4500						
4600						
4700						
4800						
4900						

[Faint handwritten notes]

[Faint handwritten notes]

Dredge } No. 572 Date, 7/15, 1907

Sdg. Mch. Reel Shot Lead 33 lbs.

Turns 147 Cor'n Depth 135 fms.

Sdg. Cup Arming Amt. Bot'm Sample 10%

Character of Bottom gy s m y sn

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 77 Time 10:00 } Air { 78

Density: Surf. fms.

Wind: Direction NE Force 0-1

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Subic Pt (Kaoi road) 1/4 mi. S. of Subic Pt. 48

Chart used: No. Ed'n

Drift: Direction S. 36 W Distance 0.5

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 5 m.

Remarks: 11 low water on bottom net empty

Deck Officer M. Johnson Recorder V. H. ...

SOUNDING WIRE.

DREDGING CABLE.

FMS.

4 M. Down. | Up. | 2 M.

M. Down. | Up. | M.

52 00 | 9 54
 53 00 | 55 20
 54 00 | 56 10

10 00 20 | 24 00
 04 10 | 24 20
 07 00 | 10 00
 10 10 00 | 10 15 30

87

- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

15 00

05 55

11 10 00

Dredge No. _____ Date _____, 19____

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns 144 Cor'n 140-135 Depth 136 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom z.z.s

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 78° Time 2:00 p. }
 { 78° Time 2:13 p. } { Air { 81°

Density: Surf. _____ fms. _____

Wind: Direction North Force 2

Baromet. 29.83 Amt. of Clouds 8 State of Sea C

Weather bcy

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality East of Cape Cod

Position 42-01 N 70-17 W

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul Bottom

Apparatus and Rig used _____

Time towing - h. 8 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

1 10 20
2 30 40
3 50 60

0
100
200
300
400
500
600

1 10 20
2 30 40
3 50 60

88

700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

2500 8 2 E

2600
2700
2800
2900
3000
3100
3200

3000 8
11.2 m

3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel J-1 Shot/Lead _____ lbs.
Turns _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 78 Time 3:13 } Air { 80
 { 76 Time 3:25 } { 50

Density: Surf. _____ fms. _____

Wind: Direction _____ Force 3

Baromet. 29.63 Amt. of Clouds 9 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality East of ...

Position ...

Chart used: No. 4418 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing _____ h. 4 m.

Remarks: _____

Deck Officer ... Recorder ...

SOUNDING WIRE.

FMS.

DREDGING CABLE.

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up. M.		M. Down.	Up. M.	
7	2	0	3	02	20
		100			
2	3	200	3	12	30
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
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		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

89

S. / m

Dredge } No. 373 Date, () 19

Sdg. Mch. Lucas Reel () Lead 35 lbs.

Turns 140 Cor'n () Depth 140 fms.

Sdg. Cup () Amt. Bot'm Sample ()

Character of Bottom ()

Thermom. { Make None No. used Cor'n { Instr. Stem.

Bottom Reading () Cor'd Temp. ()

Temp. Surf. { 78° 72° Time 8:55 9:11 Air { 77° 77°

Density: Surf. 1.02466 fms. ()

Wind: Direction E x N Force 0-1

Baromet. 29.79 Amt. of Clouds 10 State of Sea X

Weather 0

Direction and Force of Current { Surface Bottom

Tide ()

General Locality (E) 44° E; () N 41° E; E of ()

Position 11° 51' 40" N; 150° 10' 00" E

Chart used: No. 4418 Ed'n ()

Drift: Direction N 75° W Distance 1.2 miles

Depth of Haul ()

Apparatus and Rig used ()

Time towing h. 1 m.

Remarks: ()

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
8 37 50	8 40 30		0	8 44 20	9 23 15	
8 37 40	8 39 35		100	8 47 45	9 23 15	
8 35	8 37 15	145	200	51 46	9 18 30	
		280	200	8 51 30	9 15 00	
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

92

Base (E) 27-10

Dredge } No. *115* Date, *March 1*, 19*09*
Hydrog. }

Sdg. Mch. *Lucas* Reel *Lucas* Shot/Lead *15* lbs.

Turns *137* Cor'n *---* Depth *137* fms.

Sdg. Cup *Lucas* Amt. Bot'm Sample *---*

Character of Bottom *fine sand*

Thermom. { Make *none* Cor'n { Instr. *---*
 { No. *---* { Stem. *---*

Bottom Reading *---* Cor'd Temp. *---*

Temp. Surf. { *79°* Time *9:40* } Air { *79°*
 { *79°* Time *---* } { *79°*

Density: Surf. *---* fms. *---*

Wind: Direction *E x N* Force *1-2*

Baromet. *29.97* Amt. of Clouds *10* State of Sea *0*

Weather *---*

Direction and Force of Current { Surface *---*
 { Bottom *---*

Tide *---*

General Locality *Bay of St. E. N 1/2 E; 1/2 mi. S. of Cape Cod Pt.*

Position *11° 57' 05" N; 124° 12' 24" W*

Chart used: No. *4418* Ed'n *---*

Drift: Direction *N 60° W* Distance *---*

Depth of Haul *---*

Apparatus and Rig used *12' Agassiz beam trawl, 4 ft. mouth, 1 tail seal, 2 burg. weights, 1 mud ag. 1 No. 2 beam trawl*

Time towing *---* h. *---* m. *---*

Remarks: *---*

Deck Officer *---* Recorder *---*

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up.		M. Down.	Up. M.
		0	9 55	20 10 16
9 30 00	9 32 35	100	9 38 45	10 13 10
9 30 00	9 31 36	200	9 42 35	10 09 40
1 30 00	9 31 36	300	9 45 10	10 05 45
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000	8. 30	
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		
		4900		

93

[Faint handwritten notes]

8. 30

Dredge } No. 217 Date, _____, 1907

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns 134 Cor'n _____ Depth 134 fms.

Sdg. Cup Follow on lead Amt. Bot'm Sample about 1/2 cup

Character of Bottom gy. M.

Thermom. { Make none used Cor'n { Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { Time _____ } Air { 77.0 _____

Density: Surf. _____ fms. _____

Wind: Direction S.E. Force 1-2

Baromet. 30.15 Amt. of Clouds 10 State of Sea ✓

Weather Q.

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality Tropic of Bd (SE) N 35° E.

Position 11° 51' 59" N, 120° 10' 42" E

Chart used: No. 4418 Ed'n _____

Drift: Direction N 67° W Distance 1.2

Depth of Haul _____

Apparatus and Rig used 12' beam trawl, 1/2 inch mesh, 2 wings, 1/2 inch lead line, 1/2 inch netting, 1/2 inch twine.

Time towing h. 1.6 m.

Remarks:

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. L. M.

9 M. Down. Up. 9 M.

10 22 35	0
10 25 00	100
10 28 00	200
	300
	400
	500
	600
	700
	800
	900
	1000
	1100
	1200
	1300
	1400
	1500
	1600
	1700
	1800
	1900
	2000
	2100
	2200
	2300
	2400
	2500
	2600
	2700
	2800
	2900
	3000
	3100
	3200
	3300
	3400
	3500
	3600
	3700
	3800
	3900
	4000
	4100
	4200
	4300
	4400
	4500
	4600
	4700
	4800
	4900

10 25 00	11 00 00
10 27 00	10 57 00
10 32 00	10 50 00
10 35 00	10 45 00

94

B. ...

(2800)

10 25 00
10 30 00

57 00

Dredge } No. 5578 Date, _____, 19__
Hydrog. }
Sdg. Mch. 20 Reel 5 Shot 5 lbs.
Leads 5
Turns 140 Cor'n _____ Depth 135 1/4 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 85 Time _____ } Air { 81
 { 80 Time 5:40 P } { 80

Density: Surf. _____ fms. _____

Wind: Direction North Force 0-1

Baromet. _____ Amt. of Clouds 9 State of Sea J

Weather bcy.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. 4418 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul bottom

Apparatus and Rig used as before

Time towing _____ h. 7 m.

Remarks:

SOUNDING WIRE.

DREDGING CABLE.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
3	02	10	0	3	09	00
	2	00	100	3	12	45
	3	10	200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

96

(10)

217.000

4900

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot/Leads _____ lbs.
Turns 36 Cor'n _____ Depth 32 fms.
Sdg. Cup Arm Amt. Bot'm Sample _____
Character of Bottom S.S.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 74 Time 9:00 a.m. } Air { 79°
 { 79° Time 9:13 a.m. }

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 1

Baromet. _____ Amt. of Clouds 10 State of Sea C

Weather om

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality T. ...

Charlotte Id. ...

Position _____

Chart used: No. 171 Ed'n _____

Drift: Direction N 22 E Distance 0.5 m

Depth of Haul Bottom

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks:

Deck Officer W. Johnson Recorder S. ...

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. DOWNS. | UP. 17 M.

M. DOWN. | UP. 17 M.

8 14 15 8 58 10

9 00 50 9 12 15
9 00 50 9 09

98

100 S 70

100 S 70

100 S 70

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

Dredge } No. _____ Date, _____, 19____
Hydraulic }
Sdg. Mch. _____ Reel _____
Turns _____ Cor'n _____ Depth 25 fms.
Sdg. Cup Crane Amt. Bot'm Sample 3 sec
Character of Bottom S.S.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 80° Time 9:41 a. }
 { 80° Time 9:52 a. } Air { _____

Density: Surf. 1.02458 _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds 10 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality N. of _____

Position _____ 124° _____

Chart used: No. 67 Ed'n _____

Drift: Direction N 10 E Distance 0.4 m.

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing _____ h. 12 m.

Remarks: _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

66 M. Down. | Up. | M.

2 M. Down. | Up. | M.

9 11 20 9 18 25
 4 13 35 9 21 40

9 38 00 9 45 00
 9 40 00 9 49 50

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

99

05-200

10-7-11

Dredge } No. 54 Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot }
Lead } _____ lbs.
Turns 24 Cor'n _____ Depth 30 2/4 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom fine S

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time 10:____ }
 { 800 Time 10:35 } .tir }
Density: Surf. _____ fms. _____

Wind: Direction ESE Force 1
Baromet. 29.4 Amt. of Clouds 10 State of Sea
Weather om

Direction and Force of Current { Surface _____
 { Bottom _____
Tide _____

General Locality _____
Position 11-24-15-10
Chart used: No. 4718 Ed'n _____
Drift: Direction _____ Distance _____
Depth of Haul Bottom
Apparatus and Rig used As before

Time towing _____ h. 27 m.

Remarks:

SOUNDING WIRE.

A. M. DOWN.	UP.	A. M.
9 57 10	9 59 40	
9 58 10	9 58 30	

FMS.

DREDGING CABLE.

M. DOWN.	UP.	M.
10 02 20	10 35 15	
10 03 00	10 32 00	

0		
100		
200		
300		
400		
500		
600		
700		
800		
900		
1000		
1100		
1200		
1300		
1400		
1500		
1600		
1700		
1800		
1900		
2000		
2100		
2200		
2300		
2400		
2500		
2600		
2700		
2800		
2900		
3000		
3100		
3200		
3300		
3400		
3500		
3600		
3700		
3800		
3900		
4000		
4100		
4200		
4300		
4400		
4500		
4600		
4700		
4800		
4900		

200

10 02 20 10 35 15
10 03 00 10 32 00

Dredge } No. 1111 Date, 7/11/1900

Sdg. Mch. Lucas Reel Lucas Shot Lead 38 lbs.

Turns 188 Cor'n _____ Depth 168 fms.

Sdg. Cup Sieber Amt. Bot'm Sample 2 oz

Character of Bottom f. m.

Thermom. { Make No. 10 Cor'n Instr. Stem.

Bottom Reading 56.1 Cor'd Temp. 51.0

Temp. Surf. { 81° Time 2:05 } Air { 81° } { 81° Time 2:35 }

Density: Surf. _____ fms.

Wind: Direction S.W. Force 1

Baromet. 29.85 Amt. of Clouds 7 State of Sea S

Weather bc.

Direction and Force of Current { Surface Bottom

Tide _____

General Locality _____

(E) 25° E; _____

Position 11° 11' 45" N 124° 15' 45" E

Chart used: No. 11718 Ed'n _____

Drift: Direction S 45° E Distance 1.9 miles

Depth of Haul _____

Apparatus and Rig used _____

1. mud bag, 1. Kofoid 2. towing alongside.

Time towing h. 22 m.

Remarks:

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. Up. M.

M. Down. Up. M.

M. Down.	Up.	M.	FMS.
1 52	157	156 30	0
1 53	00	155 45	100
1 53	50	154 50	168 200
			300
			400
			560 500
			600
			700
			800
			900
			1000
			1100
			1200
			1300
			1400
			1500
			1600
			1700
			1800
			1900
			2000
			2100
			2200
			2300
			2400
			2500
			2600
			2700
			2800
			2900
			3000
			3100
			3200
			3300
			3400
			3500
			3600
			3700
			3800
			3900
			4000
			4100
			4200
			4300
			4400
			4500
			4600
			4700
			4800
			4900

2 00	30	2 46	45
2 04	00	2 40	55
2 07	10	2 39	30
2 09	55	2 36	20
2 11	5		
2 12	10	2 32	30

201

16.

16.

Dredge } No. 5100 Date, _____, 1902
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot _____ lbs.

Turns 182 Cor'n _____ Depth 182 fms.

Sdg. Cup Ligabue Amt. Bot'm Sample 2.07

Character of Bottom gy. m.

Thermom. { Make T. J. Cor'n { Instr. 16
 { No. 108015 { Stem. _____

Bottom Reading 5.63° Cor'd Temp. 55.7

Temp. Surf. { 81° Time 3:02 } Air { 81°
 { 51° Time 3:42 } { _____

Density: Surf. _____ fms. _____

Wind: Direction S.S.W. Force 1

Baromet. 29.84 Amt. of Clouds 7 State of Sea 2

Weather bc.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

W) S & W;

Position 11° 50' N. 126° 15' E

Chart used: No. 45 Ed'n _____

Drift: Direction S 55° E Distance 1.8 mi.

Depth of Haul Bottom

Apparatus and Rig used 12' _____

Time towing _____ h. 29 m.

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.

P.M. Down. Up. P.M.

2 53 35 2 56 35
 2 54 40 2 57 40
 2 55 40 2 56 40

FMS.

0
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900

DREDGING CABLE.

P.M. Down. Up. P.M.

2 56 50 3 56 50
 3 05 15 3 05 15
 3 09 30 3 09 30
 3 11 50 3 11 50
 3 14 00 3 14 00

203

11-45
 12-45

13. 7. 1720

Dredge Hydrog. No. 4 Date, 1911

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 464 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading 56 Cor'd Temp.

Temp. Surf. { Time } . Air { Time }

Density: Surf. fms.

Wind: Direction N.E. Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Hazard Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

M. Down. | Up. | M.

M. Down.	Up.	M.	FMS.
5 39 20 S	50 20		0
	49 30		100
4/40	48 50		200
	48 00		300
4/40	47 00 S		400
5 25 10 S	46 10 S		500
			600
			700
			800
			900
			1000
			1100
			1200
			1300
			1400
			1500
			1600
			1700
			1800
			1900
			2000
			2100
			2200
			2300
			2400
			2500
			2600
			2700
			2800
			2900
			3000
			3100
			3200
			3300
			3400
			3500
			3600
			3700
			3800
			3900
			4000
			4100
			4200
			4300
			4400
			4500
			4600
			4700
			4800
			4900

✓

Dredge } No. 50 Date, _____, 19__
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Leads _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup Sequoy Amt. Bot'm Sample 100

Character of Bottom U m

Thermom. { Make W Cor'n { Instr. 16
 { No. 5015 { Stem. _____

Bottom Reading 56 Cor'd Temp. 55.4

Temp. Surf. { 72 Time 5:50 } Air { 81
 { _____ Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction calm Force 0

Baromet. 30.93 Amt. of Clouds 7 State of Sea 8

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Between Key

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction by current Distance _____

Depth of Haul bottom

Apparatus and Rig used as before (2000)

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
A. M. Down.	Up. A. M.		A. M. Down.	Up. A. M.
8	34 40	8	38 30	0
				100
8	36 30	8	37 30	190
				200
				300
				400
				500
				600
				700
				800
				900
				1000
				1100
				1200
				1300
				1400
				1500
				1600
				1700
				1800
				1900
				2000
				2100
				2200
				2300
				2400
				2500
				2600
				2700
				2800
				2900
				3000
				3100
				3200
				3300
				3400
				3500
				3600
				3700
				3800
				3900
				4000
				4100
				4200
				4300
				4400
				4500
				4600
				4700
				4800
				4900

706

26. 10

6. 1. 2. 3. 4.

Dredge } No. 51 Date, _____, 19

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth 262 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom hard

Thermom. { Make _____ Cor'n { Instr. _____ No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 80 Time 10 9 } Air { 82 Time _____

Density: Surf. _____ fms. _____

Wind: Direction calm Force 0

Baromet. 7703 Amt. of Clouds 7 State of Sea 2

Weather haze

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality _____

Position 1- 20.1- 12.1- 3

Chart used: No. 4436 Ed'n. _____

Drift: Direction _____ Distance 1.7

Depth of Haul Bottom

Apparatus and Rig used Cas. Bag

Time towing h. 20 m.

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	A. M.		M. Down.	Up.	A. M.			
1	0	09	0	9	50	50	48	30	
	44	10	100		55	00	45	00	
	45	00	200		57	00	43	00	
9	45	30	300	9	46	00	36	00	
			400				35	00	
			500				31	00	
			600	10	09	00	10	29	00
			700						
			800						
			900						
			1000						
			1100						
			1200						
			1300						
			1400						
			1500						
			1600						
			1700						
			1800						
			1900						
			2000						
			2100						
			2200						
			2300						
			2400						
			2500						
			2600						
			2700						
			2800						
			2900						
			3000						
			3100						
			3200						
			3300						
			3400						
			3500						
			3600						
			3700						
			3800						
			3900						
			4000						
			4100						
			4200						
			4300						
			4400						
			4500						
			4600						
			4700						
			4800						
			4900						

209

20 25

Dredge } No. *1000* Date, *Jan 17*, 19*11*

Sdg. Mch. *Lucas* Reel _____ Shot } *75* lbs. Lead }

Turns _____ Cor'n _____ Depth *298* fms.

Sdg. Cup *Armag* Amt. Bot'm Sample *none*

Character of Bottom *cr*

Thermom. { Make _____ Cor'n { Instr. _____ No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { *81* Time *11:20 a* } Air { _____ }
{ *71* Time *2:11* }

Density: Surf. _____ fms. _____

Wind: Direction *able* Force *1*

Baromet. *29.1* Amt. of Clouds *7* State of Sea *1*

Weather *bcy*

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality *Bottom Layer & Co. in*

Calumet Pt. Lake, Mich.

Position *10-47-22 N - 104-22-30 W*

Chart used: No. *4426* Ed'n _____

Drift: Direction *180* Distance *2.0*

Depth of Haul *bottom*

Apparatus and Rig used *Lucas*

Time towing _____ h. *27* m.

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

M. Down. | Up. | M.

11	11	10	11	15	30	0
	11	45		15	45	100
	12	25		15	00	200
11	13	30	11	13	50	298 300

11	20	00	17	20	30
	21	00			
	27	40		23	30
	32	10		20	50
	36			17	30
	37			12	20
	37	50		11	00
11	41	00	17	40	30

208

22.5

- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

Dredge } No. 5407 Date, Jan 17, 1907

Sdg. Mch. _____ Reel _____ ~~Shot~~ Lead 3 lbs.

Turns 350 Cor'n _____ Depth 350 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom gy. M.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 81° Time 1:30 } Air { 82°
 { 81° Time 1:40 } { 82°

Density: Surf. _____ fms. _____

Wind: Direction SE Force 1

Baromet. 29.84 Amt. of Clouds 6 State of Sea 2

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Bay of St. Lawrence

Saguenay (2 mi. from Saguenay)

Position 10-51-38 N - 124-10-00 W

Chart used: No. 4426 Ed'n _____

Drift: Direction SE Distance 1.0 mi.

Depth of Haul bottom

Apparatus and Rig used 3 m. beam trawl

Time towing _____ h. 2 m.

Remarks:

Deck Officer _____ Recorder [Signature]

SOUNDING WIRE.

M. Down.	Up.	M.
12 50	1 10	
1 50	1 20	
2 50	1 30	
3 50	1 40	
4 50	1 50	
5 50	2 00	
6 50	2 10	

FMS.

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

DREDGING CABLE.

M. Down.	Up.	M.
1 00	1 00	
1 30	1 00	
1 50	1 00	
2 00	1 00	
2 30	1 00	
2 50	1 00	
3 00	1 00	
3 30	1 00	
3 50	1 00	
4 00	1 00	
4 30	1 00	
4 50	1 00	
5 00	1 00	
5 30	1 00	
5 50	1 00	
6 00	1 00	
6 30	1 00	
6 50	1 00	
7 00	1 00	
7 30	1 00	
7 50	1 00	
8 00	1 00	
8 30	1 00	
8 50	1 00	
9 00	1 00	
9 30	1 00	
9 50	1 00	
10 00	1 00	
10 30	1 00	
10 50	1 00	
11 00	1 00	
11 30	1 00	
11 50	1 00	
12 00	1 00	
12 30	1 00	
12 50	1 00	
13 00	1 00	
13 30	1 00	
13 50	1 00	
14 00	1 00	
14 30	1 00	
14 50	1 00	
15 00	1 00	
15 30	1 00	
15 50	1 00	
16 00	1 00	
16 30	1 00	
16 50	1 00	
17 00	1 00	
17 30	1 00	
17 50	1 00	
18 00	1 00	
18 30	1 00	
18 50	1 00	
19 00	1 00	
19 30	1 00	
19 50	1 00	
20 00	1 00	
20 30	1 00	
20 50	1 00	
21 00	1 00	
21 30	1 00	
21 50	1 00	
22 00	1 00	
22 30	1 00	
22 50	1 00	
23 00	1 00	
23 30	1 00	
23 50	1 00	
24 00	1 00	
24 30	1 00	
24 50	1 00	
25 00	1 00	
25 30	1 00	
25 50	1 00	
26 00	1 00	
26 30	1 00	
26 50	1 00	
27 00	1 00	
27 30	1 00	
27 50	1 00	
28 00	1 00	
28 30	1 00	
28 50	1 00	
29 00	1 00	
29 30	1 00	
29 50	1 00	
30 00	1 00	
30 30	1 00	
30 50	1 00	
31 00	1 00	
31 30	1 00	
31 50	1 00	
32 00	1 00	
32 30	1 00	
32 50	1 00	
33 00	1 00	
33 30	1 00	
33 50	1 00	
34 00	1 00	
34 30	1 00	
34 50	1 00	
35 00	1 00	
35 30	1 00	
35 50	1 00	
36 00	1 00	
36 30	1 00	
36 50	1 00	
37 00	1 00	
37 30	1 00	
37 50	1 00	
38 00	1 00	
38 30	1 00	
38 50	1 00	
39 00	1 00	
39 30	1 00	
39 50	1 00	
40 00	1 00	
40 30	1 00	
40 50	1 00	
41 00	1 00	
41 30	1 00	
41 50	1 00	
42 00	1 00	
42 30	1 00	
42 50	1 00	
43 00	1 00	
43 30	1 00	
43 50	1 00	
44 00	1 00	
44 30	1 00	
44 50	1 00	
45 00	1 00	
45 30	1 00	
45 50	1 00	
46 00	1 00	
46 30	1 00	
46 50	1 00	
47 00	1 00	
47 30	1 00	
47 50	1 00	
48 00	1 00	
48 30	1 00	
48 50	1 00	
49 00	1 00	
49 30	1 00	
49 50	1 00	
50 00	1 00	

209

S. 22.

51-80

Dredge } No. 1 Date, _____, 1907
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns 157 Cor'n _____ Depth 157 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom gn. M.

Thermom. { Make R.J. Cor'n { Instr. 6
 { No. 1050125 { Stem. _____

Bottom Reading 56° Cor'd Temp. 55.4

Temp. Surf. { 80° Time 8:15 } Air { 85 1/2°
 { 30° Time _____ } { 81°

Density: Surf. 1.02462 fms. _____

Wind: Direction Variable Force 0-1

Baromet. 29.93 Amt. of Clouds 2 State of Sea 2

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

(48), 837°E.

Position _____ V. _____ 10 E.

Chart used: No. 4718 Ed'n _____

Drift: Direction 846°M. Distance 1.3 miles

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. 20 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

1 M. Down. | Up. | 2 M.

8 33 30 | 8 37 30
 8 34 30 | 8 38 30
 8 35 30 | 8 39 30

FMS.

0
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900

DREDGING CABLE.

1 M. Down. | Up. | 2 M.

5 10 30 | 5 14 30
 5 11 30 | 5 15 30
 5 12 30 | 5 16 30
 5 13 30 | 5 17 30

~~12~~
 11

2 2 3

12-17

2 2 3

Dredge } No. 4 Date, _____, 1907
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot Lead 30 lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup tallow on lead Amt. Bot'm Sample trace

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 50° Time 9 24 } Air { 82°
 { 80° Time 10 05 } { 80 1/2°

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 1

Baromet. 29.2 Amt. of Clouds 3 State of Sea 1

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

(S) 12° E East of Cebu

Position 10° 38' 00" N. 124° 13' 08" E.

Chart used: No. 4718 C.S. Ed'n _____

Drift: Direction S. 51° E. Distance 2 mi

Depth of Haul _____

Apparatus and Rig used _____

Time towing: _____ h. _____ m.

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. | Up. | A. M.

7 14 20 | 8 15 00
 8 15 20 | 8 17 00
 9 16 10 | 9 18 00

FMS.

- 0
- 100
- 200
- 300
- 350 400
- 450 500
- 550 600
- 650 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

125

Long...

31 05 | 13 15

DREDGING CABLE.

A. M. Down. | Up. | A. M.

9 20 45 | 10 15 00
 9 24 20 | 10 14 50
 9 27 55 | 10 13 50
 9 33 45 | 10 12 50
 9 38 15 | 10 11 50
 9 45 25 | 10 10 50
 9 50 00 | 10 09 50

W. W. W.

2 2 2000

Dredge } No. 5229 Date, 1911

Sdg. Mch. Lucas Reel Lucas Shot Lead 30 lbs.

Turns 385 Cor'n _____ Depth 385 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom gy. m. s.

Thermom. { Make None used Cor'n { Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 80° Time 11:35 } Air { 82°

Density: Surf. _____ fms. _____

Wind: Direction Various Force 1

Baromet. _____ Amt. of Clouds 4 State of Sea 8

Weather bc.

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality Bay of St. George, Bermuda

Position 31° 45' N 124° 00' 30" W

Chart used: No. 4718 C.S. Ed'n _____

Drift: Direction S. 3° E. Distance 1.2 miles

Depth of Haul Cotton

Apparatus and Rig used _____

Time towing h. 24 m.

Remarks:

SOUNDING WIRE.

A. M. Down. | Up. | A. M.

11 | 25 15 | 24 40
 11 | 25 25 | 24 50
 11 | 25 40 | 24 55
 11 | 25 45 | 24 55
 11 | 25 50 | 24 55

FMS.

DREDGING CABLE.

A. M. Down. | Up. | A. M.

1 | 20 30 | 19 55
 11 | 34 30 | 28 55
 11 | 39 00 | 28 55
 11 | 42 05 | 25 55
 11 | 45 10 | 22 55
 11 | 48 00 | 19 55
 51 00 | 15 55
 52 00 | 15 55
 11 | 56 00 | 15 55

13

28-38

0
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900

28 38

28 38

Dredge } No. 111 Date, Jan 12, 1911

Sdg. Mch. Lucas Reel 2 Shot Leads 25 lbs.

Turns 145 Cor'n - Depth 145 fms.

Sdg. Cup Amt. Bot'm Sample 1

Character of Bottom gy. M.

Thermom. { Make T.R. Cor'n { Instr. 6
No. 108015 Stem.

Bottom Reading 55.8° Cor'd Temp. 55.2

Temp. Surf. { 81° Time 8:42 a.m. Air { 79.5
15° Time 9:05 a.m. 80.0

Density: Surf. - fms.

Wind: Direction - Force -

Baromet. 30.25 Amt. of Clouds 10 State of Sea -

Weather B3

Direction and Force of Current { Surface -
Bottom -

Tide -

General Locality R.I. Coast

Position 41° 55' N 72° 55' W

Chart used: No. 0047 Ed'n -

Drift: Direction - Distance 0.7

Depth of Haul 2 ft

Apparatus and Rig used Lucas

Time towing 2 h. 15 m.

Remarks: when haul came up...

Deck Officer Recorder

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

8 | 16 20 | 21 15
 17 30 | 20 10
 2 18 40 | 19 50

0
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900

9 | 15 00 | 15 00
 10 30 | 14 30
 11 30 | 13 30
 12 30 | 12 30
 13 30 | 11 30
 14 30 | 10 30
 15 30 | 9 04 25

14

Time 21 25

15 30 8

16 30 20

Dredge } No. 7112 Date, Oct 2, 1910
Hydrog. }

Sdg. Mch. 2 Reel 2 Shot/Lead 25 lbs.

Turns 167 Cor'n - Depth 167 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom M.

Thermom. { Make T.B. No. 108015 Cor'n { Instr. Stem.

Bottom Reading 55.40 Cor'd Temp. 54.8

Temp. Surf. { 81° 81° Time 10:00 Air { 81°
 { 81° { 10:10

Density: Surf. fms.

Wind: Direction Force

Baromet. 29.8 Amt. of Clouds 10 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. CS 4718 Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used

Time towing 22 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

M. Down. | Up. | M.

9 23 55 | 9 27 55
 25 10 | 27 55
 9 36 00 | 9 37 00

(62)

9 44 15 | 9 27 55
 20 10 | 27 55
 9 57 55 | 10 20 55

15

Louis

62 06

5.5 m

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

Dredge } No. 3741 Date, 1903

Sdg. Mch. Reel Shot/Lead lbs.

Turns 42 Cor'n Depth 42 (Chart) fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 62.0 Time 11:30 } Air { 62.0 Time 11:40 }

Density: Surf. fms.

Wind: Direction E. Force 2

Baromet. 29.81 Amt. of Clouds 8 to 9 State of Sea 2-3

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 13 58 11 03 15 E

Chart used: No. 4718 C.S. Ed'n

Drift: Direction 230' Distance 6 miles

Depth of Haul Bottom

Apparatus and Rig used

Time towing 8 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

DREDGING CABLE.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0	11 28 00		
			100	11 32 20		
			200	11 33 50		
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

28

12 1/2

0 3 1/2

11 38 00

11 42 00

Dredge No. _____ Date, _____ 4, 1907

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82° Time 11:00 } Air { 80°
 { Time 12:00 } { 78°

Density: Surf. _____ fms. _____

Wind: Direction E, _____ Force _____

Baromet. _____ Amt. of Clouds 5 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Between Cape W. Point, _____

Panama & Colon Canal, S.W. _____

✓ Position 10-11-40 N - 124-2-45 E

Chart used: No. 4718 Ed'n _____

Drift: Direction N 23 W Distance 1.2

Depth of Haul _____

Apparatus and Rig used As before

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		Q. M. Down.	Up.	Q. M.
			0			
			100	11 58 10		12 15 30
			200	12 04 10		12 15 30
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

21

10-13

Q. M. 12 15 30

12 15 30

Dredge / Hydrog. No. _____ Date, / / , 19

Sdg. Mch. _____ Reel _____ Shot / Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. 108015 _____ { Stem. _____

Bottom Reading 63' Cor'd Temp. 62.4

Temp. Surf. { 81 Time _____ } Air { 83
 { 82 Time 2:15 _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction ENE Force 3

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather bcsl

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position / 1-50.1-133.57

Chart used: No. 1718 Ed'n _____

Drift: Direction N81W Distance 1.5

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz wing net

Time towing h. / m.

Remarks:

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1	7.5	22.5	0	1	30	2 00 00
1	20 30	1 21 30	88 100	1	33 50	2 04 45
			200	1	37 00	2 01 25
			300	1	41 00	2 00 00
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

22

Down 24 00

2 24 00

2 2 00

Dredge } No. 5411 Date, Feb 25, 1907

Sdg. Mch. Reel Shot/Lead 25 lbs.

Turns Cor'n Depth 150 fms.

Sdg. Cup Sieve Amt. Bot'm Sample 3/4 oz.

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading 50 Cor'd Temp. 54.4

Temp. Surf. { 80 Time 7:45 Air { 81

Density: Surf. fms.

Wind: Direction East Force 1-2

Baromet. Amt. of Clouds 3 State of Sea

Weather bcs

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 10-11-30 N 152-17-30 W

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul bottom

Apparatus and Rig used 12' dredge

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

M. Down.		Up.	M.	
7	18 45	7	20	20
	19 00		21	20
7	19 45	7	20	45

FMS.

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

DREDGING CABLE.

M. Down.		Up.	M.	
7	38 00	7	40	00
	38 15			

2-3

12-5

2-7-22

Dredge } No. 577 Date, _____, 19__
Hydrog. }

Sdg. Mch. Lucas Reel Shot Lead 3 lbs.

Turns 165 Cor'n _____ Depth 165 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom gy. M. S.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. 108015 { Stem. _____

Bottom Reading 55° Cor'd Temp. 54°

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction East Force 1-2

Baromet. _____ Amt. of Clouds 8 State of Sea 0

Weather 1

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position 10° 10' 00" N. 123° 53' 15" E

Chart used: No. 454718 Ed'n _____

Drift: Direction S 15° W Distance 1.2 mi

Depth of Haul Bottom

Apparatus and Rig used As. M.

Time towing h. 20 m.

Remarks:

SOUNDING WIRE.

FMS.

DREDGING CABLE.

SOUNDING WIRE.			DREDGING CABLE.		
M. Down.	Up.	M.	M. Down.	Up.	M.
8	16	50	8	21	10
8	17	50	8	20	10
8	18	20	8	19	20
					165
					200
					300
					400
					500
					600
					700
					800
					900
					1000
					1100
					1200
					1300
					1400
					1500
					1600
					1700
					1800
					1900
					2000
					2100
					2200
					2300
					2400
					2500
					2600
					2700
					2800
					2900
					3000
					3100
					3200
					3300
					3400
					3500
					3600
					3700
					3800
					3900
					4000
					4100
					4200
					4300
					4400
					4500
					4600
					4700
					4800
					4900

24

Sound Wire

Dredging Cable

Dredge } No. *156* Date, *Dec 12*, 19*11*

Sdg. Mch. *L* Reel *1* Shot / Lead *50* lbs.

Turns *159* Cor'n *—* Depth *159* fms.

Sdg. Cup *Sigsbee* Amt. Bot'm Sample *203*

Character of Bottom *Mud*

Thermom. { Make *N.Y.* Cor'n { Instr. *6*
 { No. *108015* { Stem.

Bottom Reading *550* Cor'd Temp. *54.4*

Temp. Surf. { *51°* Time *10:15* } Air { *51°*

Density: Surf. _____ fms. _____

Wind: Direction *Various* Force *0-1*

Baromet. _____ Amt. of Clouds *9* State of Sea _____

Weather *bc*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality *156 E. ...*

Position / *05 50.4 125 23.30*

Chart used: No. *C.S. 4716* Ed'n _____

Drift: Direction *2.30* Distance *0.8*

Depth of Haul *Bottom*

Apparatus and Rig used *as above*

Time towing _____ h. _____ m.

Remarks: *...*

Deck Officer _____ Recorder _____

SOUNDING WIRE.

A.M. Down. | Up. | M.

9 | 27 | 00 | 8 40 00
 9 | 28 | 25 | 8 20 00

25

FMS.

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

DREDGING CABLE.

A.M. Down. | Up. | M.

9 | 43 | 10 | 10 | 12 00
 9 | 46 | 30 | 10 | 09 00
 9 | 47 | 30 | 10 | 07 00

14 10 2
 5 10 00

Dredge } No. _____ Date, _____, 19 _____
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 35 lbs.

Turns _____ Cor'n _____ Depth 175 fms.

Sdg. Cup Agassiz Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make T. 3/1 No. 100015 Cor'n { Instr. _____ Stem. _____

Bottom Reading 501 Cor'd Temp. _____

Temp. Surf. { 81 Time 1:40 P } Air { 83
Time 2:30 P }

Density: Surf. _____ fms. _____

Wind: Direction N E Force _____

Baromet. 29.7 Amt. of Clouds 6 State of Sea 8

Weather _____

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. 4718 Ed'n _____

Drift: Direction S 4 E Distance 1.3

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. 20 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down.		Up.	M.	
1	32 10	1	37 50	
	33 00		36 15	
1	34 30	1	35 30	

FMS.

- 0
- 100
- 200
- 300
- 350
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

26

DREDGING CABLE.

M. Down.		Up.	M.	
1	40 20	2	27 20	
1	45 40	2	24 15	
1	51 20	2	20 40	
	53 10		17 15	
	55 00		15 00	

20 27 20
15 17 15

Dredge } No. 5426 Date, ... 19

Sigs. Mch. ... Reel ... Shot/Lead 15 lbs.

Turns ... Cor'n ... Depth 127 fms.

Sigs. Cup ... Amt. Bot'm Sample

Character of Bottom

Thermom. { Make N.Y. No. 115 Cor'n { Instr. .6 Stem.

Bottom Reading 59.6 Cor'd Temp. 59.

Temp. Surf. { 71 Time ... Air {

Density: Surf. ... fms.

Wind: Direction N.E. Force 3

Baromet. 715 Amt. of Clouds 8 State of Sea 2

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality ...

Position 9-45-30 N - 123-45-30 W

Chart used: No. ... Ed'n

Drift: Direction ... Distance 1.2

Depth of Haul

Apparatus and Rig used

Time towing ... h. 17 m.

Remarks:

Deck Officer ... Recorder

SOUNDING WIRE.

M. Down. Up. P. M.

3 31 30 34 30
 33 35 34 30
 3 30 34 30

FMS.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

DREDGING CABLE.

P. M. Down. Up. P. M.

3 35 50 15 20
 1 1/2 50 1 1/2 00
 3 2 00 0 00

27

1000 20 30 35

Long 2000 (2000)

at 2000

3000

49.45

Dredge } No. _____ Date, _____, 19____

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns 12 Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom fine green

Thermom. { Make _____ Cor'n { Instr. 6
No. _____ Stem. _____

Bottom Reading 9 Cor'd Temp. 58.4

Temp. Surf. { Time _____ } Air { _____ }
Time _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. 30.01 Amt. of Clouds _____ State of Sea _____

Weather bc

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality _____

Position 30

Chart used: No. 8 Ed'n _____

Drift: Direction E 40 W Distance 1.5

Depth of Haul _____

Apparatus and Rig used A.S. beam

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer [Signature] Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
26	20	5 45 00	0			
27	18	5 39 00	100	26	25	
28	30	5 36 30	200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

130

1 = 78
5 = 72

22.15

V

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot } lbs.
Lead }
Turns _____ Cor'n _____ Depth _____ fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
Bottom Reading 410 _____ Cor'd Temp. _____
Temp. Surf. { 82.0 / _____ Time 7:17 p } .tir }
 { _____ Time _____ } _____

Density: Surf: _____ fms. _____
Wind: Direction. N E Force 2-3
Baromet. _____ Amt. of Clouds _____ State of Sea _____
Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____
Tide _____

General Locality _____

Position 1 00
Chart used: No. 478 Ed'n _____
Drift: Direction W by S Distance 1.5 m
Depth of Haul Surface
Apparatus and Rig used _____

Time towing: _____ h. _____ m.

Remarks: _____

Deck Officer _____

Recorder _____

SOUNDING WIRE.

DREDGING CABLE.

M. Down. | Up. | M.

FMS.

M. Down. | Up. | M.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

31

12.7 2.5
9.7 3.772

Cyprus ✓

Dredge } No. 333 Date, Cyprus 31, 1907

Sdg. Mch. _____ Reel _____ Shot & Lead 34 lbs.

Turns 50 : Cor'n _____ Depth 506 fms.

Sdg. Cup _____ Amt. Bot'm Sample 1/2

Character of Bottom gy. sh. & c.

Thermom. { Make M. J. Cor'n { Instr. 6
 { No. 105215 { Stem. _____

Bottom Reading 50.4° Cor'd Temp. 49.8

Temp. Surf. { 82° Time 9:30 } Air { 82°
 { 82° Time 10:25 } { 82°

Density: Surf. _____ fms. _____

Wind: Direction E X S Force 3

Baromet. 29.95 Amt. of Clouds 2 State of Sea X

Weather S.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Cyprus S 11 E.; (Beacon ...)
S 77° E.; (Beacon ...)
Position 9° 34' 30" N. 121° 11' 00" E.

Chart used: No. 7, 7 Ed'n _____

Drift: Direction 71.25 Distance 1.5 miles

Depth of Haul bottom

Apparatus and Rig used 12' ...
... ..
... ..

Time towing: h. 2 / m. _____

Remarks: _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

9 11 00	9 05 00	
9 12 00	9 06 30	
9 13 00	9 08 00	
9 14 00	9 09 30	
9 15 00	9 11 00	
9 16 00	9 12 30	
9 17 00	9 14 00	
9 18 00	9 15 30	

0
100
200
300
400
500
600
700
800
900

9 20 00	10 00 00	
9 21 00	10 01 30	
9 22 00	10 03 00	
9 23 00	10 04 30	
9 24 00	10 06 00	
9 25 00	10 07 30	
9 26 00	10 09 00	
9 27 00	10 10 30	
9 28 00	10 12 00	
9 29 00	10 13 30	

33

10 15

- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

Trawl No. 5000 Date, 1/1/19

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 340 fms.

Sdg. Cup Amt. Bot'm Sample 204

Character of Bottom

Thermom. { Make 77 No. 105015 Cor'n { Instr. Stem.

Bottom Reading 51 Cor'd Temp. 50.4

Temp. Surf. { 82 Time 1:00 P } Air { 81 { 83 Time

Density: Surf. fms.

Wind: Direction East Force 3-4

Baromet. Amt. of Clouds State of Sea

Weather best

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 9-77 15 121-15 27

Chart used: No. Ed'n

Drift: Direction N 67 W Distance 1.5

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 20 m.

Remarks:

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up.		M. Down.	Up. M.
	17 53 41	0	12 58 45	2 08 45
	55	100	1 07 20	2 05 25
50 50	57 15	200		
51 45	53 30	300		
12 52	57 10	340	13 40	1 56 10
		500	16 30	1 52 45
		600	19 20	1 49 30
		700	22 10	1 46 10
		800	24 00	1 44 00
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

34

11 47
3, 4, m

Dredge } No. 1111 Date, July 1, 1911

Sdg. Mch. _____ Reel _____ Shot/Lead 15 lbs.

Turns _____ Cor'n _____ Depth 195 fms.

Sdg. Cup *Lucas* Amt. Bot'm Sample _____

Character of Bottom *gy. m. s.*

Thermom. { Make *N.Y.* Cor'n { Instr. *6*
 { No. *4115* { Stem. _____

Bottom Reading *50* Cor'd Temp. *40.4*

Temp. Surf. { Time *7:15* } Air { *71*
 { { { *71*

Density: Surf. _____ fms. _____

Wind: Direction *ENE* Force *3*

Baromet. *30.1* Amt. of Clouds *1* State of Sea *2*

Weather *bcy*

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality *Northwestern Atlantic*

Position *47° 14' N - 121° 11' 00"*

Chart used: No. *177* Ed'n _____

Drift: Direction *N 12 W* Distance *1.2*

Depth of Haul _____

Apparatus and Rig used *as above*

Time towing *h. 20 m.*

Remarks:

SOUNDING WIRE.

P. M. DOWN.	UP.	P. M.
2 5 30	2 21 00	
	23 30	
17 00		
18 00		
18 30		
18 45		

FMS.

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

DREDGING CABLE.

P. M. DOWN.	UP.	P. M.
2 30 20	3 45 45	
34 30	42 30	
37 45	39 25	
40 40	36 20	
46 10	29 20	
49 10	27 15	
52 15	25 10	
55 20	23 05	
2 57 20	3 17 00	

35

1100 2000

Dredge } No. 1716 Date, 1903

Sdg. Mch. 758 Reel ~~Stink~~ Shot Lead lbs.

Turns 30 Cor'n - Depth 27 ~~30~~ fms.

Sdg. Cup Amt. Bot'm Sample Arming full

Character of Bottom fine sand

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 82° Time 6:54 a.m. } Air { 81°

Density: Surf. fms.

Wind: Direction N-E Force 2

Baromet. 29.95 Amt. of Clouds 3 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 1 1/2 00 N - 14 25 00

Chart used: No. 716 Ed'n. Jan 03

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

DREDGING CABLE.

a M. Down. | Up. *a* M.

FMS.

a M. Down. | Up. *a* M.

6 | 12 03 6 23
6 | 12 03 6 23

6 | 12 03 6 23
6 | 12 03 6 23

- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

HO
4.1

Handwritten scribbles

Handwritten scribbles

Handwritten scribbles

25

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot _____ lbs.
Lead _____
Turns _____ Cor'n _____ Depth 37 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82° Time 8:10 a } Air { 81°
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction N E Force 2

Baromet. 29.2 Amt. of Clouds _____ State of Sea _____

Weather 702

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position 9-11-30 - 114-37-08

Chart used: No. 4716 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul Bottom

Apparatus and Rig used _____

Time towing _____ h. 5 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

DREDGING CABLE.

FMS.

a M. DOWN. UP. *a* M.

a M. DOWN. UP. *a* M.

8 03 35 8 03 40

- 0
- 400
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400
- 2500
- 2600
- 2700
- 2800
- 2900
- 3000
- 3100
- 3200
- 3300
- 3400
- 3500
- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

4 1/2

W

30 fathoms fine cl.

11.5

Tredge } No. 272 Date, 1905, 19

Sdg. Mch. 27 Reel Shot } lbs.

Turns 1105 Cor'n Depth 1105 fms.

Sdg. Cup Amt. Bot'm Sample 2 3

Character of Bottom

Thermom. { Make No. 108075 Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp. 48.7

Temp. Surf. { Time 11:24 Air {

Density: Surf. fms.

Wind: Direction N E Force 3

Baromet. 29.5 Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. 4716 Ed'n

Drift: Direction

Depth of Haul.

Apparatus and Rig used

Time towing h. 21 m.

Remarks:

Deck Officer M. J. Recorder

SOUNDING WIRE.

M. Down.	Up.	M.
10 02 25	10 20 20	0
10 03 00	10 20 50	100
10 03 30	10 21 00	200
10 04 00	10 21 30	300
10 04 30	10 22 00	400
10 05 00	10 22 30	500
10 05 30	10 23 00	600
10 06 00	10 23 30	700
10 06 30	10 24 00	800
10 07 00	10 24 30	900
10 07 30	10 25 00	1000
10 08 00	10 25 30	1100
10 08 30	10 26 00	1200

FMS.

DREDGING CABLE.

M. Down.	Up.	M.
10 27 25	12 47 00	00
30 50	12 43 50	50
35 00	12 40 45	45
37 00	12 37 40	40
40 00	12 34 35	35
43 00	12 31 30	30
46 00	12 28 25	25
49 00	12 25 20	20
52 00	12 22 15	15
55 00	12 19 10	10
58 50	12 16 05	05
11 01 50	12 13 00	00
11 04 50	12 10 00	00
11 08 00	12 07 00	00
11 11 00	12 04 00	00
11 14 00	12 01 00	00
11 17 00	11 58 00	00
11 20 00	11 55 00	00
11 23 00	11 52 00	00

~~42~~
43

30 M. of line

2 1/2 M

19.5 M

Trawl or Hydrog. No. 773 Date, Oct 3, 1907

Sdg. Mch. Lucas Reel Lucas Shot Lead 28 lbs.

Turns 722 Cor'n _____ Depth 722 fms.

Sdg. Cup _____ Amt. Bot'm Sample 2.2

Character of Bottom gy. M. fine Co. S.

Thermom. { Make T. S. Cor'n { Instr. 6 Stem. _____ No. 105315

Bottom Reading 57 Cor'd Temp. 49.4

Temp. Surf. { 83 Time 3:40 v Air { 86 Time _____

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality Panama Canal P. 1, P. 2 2.5° W.

30° (Amplitude) 84° 20' East of _____

Position: 84 40' N. ; 118° 45' 00" E.

Chart used: No. 4716 Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. Up. M.

M. Down. Up. M.

19 00	3	30 00	0
3 19 00	3	31 00	100
3 20 15	3	32 30	200
3 21 15	3	33 45	300
3 22 15	3	35 00	400
3 23 15	3	36 15	500
3 24 15	3	37 30	600
3 25 15	3	38 45	700
3 26 15	3	40 00	800
3 27 00	3	41 15	900
3 28 00	3	42 30	1000
			1100
			1200
			1300
			1400
			1500
			1600
			1700
			1800
			1900
			2000
			2100
			2200
			2300
			2400
			2500
			2600
			2700
			2800
			2900
			3000
			3100
			3200
			3300
			3400
			3500
			3600
			3700
			3800
			3900
			4000
			4100
			4200
			4300
			4400
			4500
			4600
			4700
			4800
			4900

43
44

(2) 3 17

6.3 1117

Hydrog. } No. 1 Date, , 19

Sdg. Mch. Lucas Reel Lucas Shot/Lead 35 lbs.

Turns Cor'n Depth 500 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. 109015 Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp. 119.2

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds 3 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 30 30

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | P. M.

M. Down. Up. M.

✓ 33 35 40 0
 34 35 45 100
 35 35 50 200
 36 35 55 300
 37 35 1 00 400
 38 35 1 05 500
 39 00 1 10 550 / 600

700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900

Handwritten scribbles and markings, including '44' and '2'.

Handwritten notes: (A. H. 200) 5.3 400

Handwritten number: 45

Dredge } No. 5190 Date, Oct 15, 1917

Sdg. Mch. _____ Reel _____ Shot & Lead 35 lbs.

Turns _____ Cor'n _____ Depth 71 1/2 fms.

Sdg. Cup _____ Amt. Bot'm Sample 2 1/2

Character of Bottom _____

Thermom. { Make None used Cor'n { Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 83 Time 1:40 } Air { 87 }
{ 83 Time 1:30 } { 82.50 }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds 2 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality _____

Position 41 37 N 50 20 W

Chart used: No. 1/10 Ed'n _____

Drift: Direction N 73° W Distance 1

Depth of Haul _____

Apparatus and Rig used 12' Agassiz Trawl
Trawl with 4 glass floats

Time towing _____ h. 18 m.

Remarks: _____

Deck Officer LILY W. JONES Recorder _____

Mr. Johns

SOUNDING WIRE.

DREDGING CABLE.

A.M. Down. Up. A.M.

FMS.

A.M. Down. Up. A.M.

7	23	45			
	24	40	36	30	
	25	30	36	40	
	26	20	35	30	
	27	20	34	40	
	28	35	34	00	
	29	35	33	20	
	30	45	32	30	
7	31	40	7	32	00

0
100
200
300
400
500
600
700
800

7	39	45	8	59	20
	43	25		56	20
	47	45		53	20
	51	10		50	15
	54	00		47	10
	56	30		44	10
	59	30		41	10
8	01	10		38	05
	05	05		34	55
	08	15		31	45

950	1000
1000	1100
1200	
1300	
1400	
1500	
1600	
1700	
1800	
1900	
2000	
2100	
2200	
2300	
2400	
2500	
2600	
2700	
2800	
2900	
3000	
3100	
3200	
3300	
3400	
3500	
3600	
3700	
3800	
3900	
4000	
4100	
4200	
4300	
4400	
4500	
4600	
4700	
4800	
4900	

~~46~~
48

ent along Tagboraos
N 35 W.

Pomagtaran Pt

S 87 W
5.6

Dredge } No. 5430 Date, April 6, 1908

Sdg. Mch. Lucas Reel Lucas Shot/Lead 35 lbs.

Turns x 464 (See note below) Cor'n Depth 464 fms.

Sdg. Cup Ligabue Amt. Bot'm Sample 1/2 oz.

Character of Bottom glob. G.

Thermom. { Make N. J. Cor'n { Instr. 6
No. 105015 Stem.

Bottom Reading 50.6° Cor'd Temp. 50

Temp. Surf. { 83° Time 10:20 } Air { 84°
83 Time 11:05 } 85°

Density: Surf. fms.

Wind: Direction E.N.E. Force 2

Baromet. 29.93 Amt. of Clouds 2 State of Sea S.

Weather bc.

Direction and Force of Current { Surface
Bottom

Tide

General Locality E coast Palawan

Acontilado Pt. Palawan N. 30 E. Fr. side

Position 9 49 40 N 119-03-20 E

Chart used: No. 4716 Ed'n

Drift: Direction N Distance 1.5 m

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz H.R., 4 glass float, 2 wing weights, 1 tail weight, 1 mud bag; 1 R # 2 towing alongside

Time towing h. 25 m.

Remarks: 464 fath by order of Mr. Hazard. 461 fath correct.

Deck Officer Mr Hazard Recorder C. E. ...

SOUNDING WIRE.

FMS.

DREDGING CABLE.

Q M. DOWN. UP. Q M.

Q M. DOWN. UP. Q M.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
Q M. DOWN.	UP.	Q M.		Q M. DOWN.	UP.	Q M.
10 02 55	10 12 45	45	0	10 15 00	11 17 15	15
10 03 55	10 11 55	55	100	10 19 30	11 14 05	05
10 04 55	10 10 50	50	200	10 23 20	11 11 00	00
10 05 50	10 09 55	55	300	10 26 45	11 08 00	00
10 06 55	10 08 40	40	400	10 29 25	11 05 00	00
10 07 20	10 07 25	25	464	10 33 05	11 02 00	00
			500	10 47 00		
			600			
			700	10 53 30	10 58 40	40
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

1/8
50

ado 2 (M) 257

Fondeado 2 (M)

257 M

10.5 m

$$\frac{\begin{array}{r} 1 \\ 27 \\ \hline 28 \end{array}}{140} + \frac{\begin{array}{r} 18 \\ 144 \\ \hline 162 \end{array}}{140} = \frac{162}{140}$$

140
28
8