

H 5109-
5134.

D 5779-
5784.

507

Dodge 57.79-a

H 5109
5134

D 5779
784



$$3 \times 3 \times 12 = 9 \text{ ft} = 18 \text{ ft}$$

$$6 \times 6 \times 12 = 36$$

$$4 \times 4 \times 12 = 16$$

Dredge } No. 5109 Date, April 30, 1912
Hydrog. }

Sdg. Mch. Lucas Reel Shot/Lead 14 lbs.

Turns Cor'n Depth 6 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make n. 3 Cor'n { Instr. No. 41019 SP 1023 Stem.

Bottom Reading 56.8 R 56.6 Cor'd Temp. 56.56

Temp. Surf. { 57.2 Time 12:00 pm Air { 59
56.93 Time

Density: Surf. fms.

Wind: Direction S.S.W. Force 2-3

Baromet. 30.17 Amt. of Clouds 4 State of Sea C

Weather hazy

Direction and Force of Current { Surface 36 Revs: 30 sec. Bottom 30 Revs: 30 sec.

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Anchored Distance

Depth of Haul Inter

Apparatus and Rig used 4' Inter: 2 Refords.

Time towing h. 10 m.

Remarks: Cassman water bottle

Deck Officer Mr. Shady Recorder H. W. Cook

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
M. Down.	Up.	A. M.	M. Down.		Up.	M.	
11 49 00	11 59 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			

Dredge } No. 5110 Date, Apr 30, 1912
Hydrog. }
Sdg. Mch. Lucas Reel L Shot/Lead 14 lbs.
Turns _____ Cor'n _____ Depth 8 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make W.S. Cor'n { Instr. _____
 { No. L: 1019, R: 1023 { Stem. _____

Bottom Reading L 57.9 R 56.9 Cor'd Temp. 56.81

Temp. Surf. { 57 Time 12:52 P } Air {
 { 56.73 Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction SW Force 2

Baromet. 30.16 Amt. of Clouds 6 State of Sea S

Weather bc

Direction and Force of Current { Surface 24 rev. to 30 fms
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul Inter.

Apparatus and Rig used 4' Inter & 2 RFS

Time towing _____ h. 12 m.

Remarks: _____

Deck Officer Mr. Stanley Recorder Arnold
11-1023

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
$\text{\textcircled{P}}$ M. DOWN.	UP. $\text{\textcircled{P}}$ M.		$\text{\textcircled{P}}$ M. DOWN.	UP. $\text{\textcircled{P}}$ M.
12	4200	0	12	42 - 12 44 -
		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. 511 Date, Apr. 30, 1912
Hydrog. }

Sdg. Mch. Lucas Reel L Shot/Lead 14 lbs.

Turns _____ Cor'n _____ Depth 14 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make N.B. Cor'n { Instr. _____
 { No. L-1019; R 1023 { Stem. _____

Bottom Reading L. 57.1 R. 57.1 Cor'd Temp. 56.96

Temp. Surf. { 57.9 Time 1:17 } Air { 59°
 { 57.63 Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction SW Force 2

Baromet. 30.16 Amt. of Clouds 6 State of Sea S

Weather bc

Direction and Force of Current { Surface 19 zero to 30m
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul Inter.

Apparatus and Rig used 4' Inter x 2 Kofus.

Time towing _____ h. 14 m.

Remarks: _____

Deck Officer Mr. Stanley Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1 07	10	1 17	0	1 06	-	1 18 00
			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. 5712 Date, 10/1/1912
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 14 lbs.

Turns Cor'n Depth 12 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make N.2, L. 1019 Cor'n { Instr. Stem. No. N.2, R. 1023

Bottom Reading 254.9 R 54.8 Cor'd Temp. 54.71

Temp. Surf. { Time 9:50 Air { 54.0
54.73 Time

Density: Surf. fms.

Wind: Direction N.W. Force 3-4

Baromet. 30.22 Amt. of Clouds 6 State of Sea

Weather bz

Direction and Force of Current { Surface 64 rpm to 30 rpm Bottom

Tide Flood

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Anchored Distance

Depth of Haul Inter.

Apparatus and Rig used

Time towing h. 12 m.

Remarks: Ekman water

Deck Officer

Recorder

SOUNDING WIRE.

Q. M. Down.	Up.	Q. M.
9 38 10	9 41 30	

FMS.

DREDGING CABLE.

Q. M. Down.	Up.	Q. M.
9 37 00	9 41 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

SOUNDING WIRE.

DREDGING CABLE.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
A. M. Down.	Up.	A. M.		A. M. Down.	Up.	A. M.
10	12	15	0			
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
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			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			

Bridge } No. 5117 Date, 10/1/1911, 1911

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 6 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make NZ 1014 Cor'n { Instr. No. NZ R # 1223 Stem. 2: 55.5° R; 55.6°

Bottom Reading Cor'd Temp. 55.56

Temp. Surf. { 55.5° Time 10:43 } Air { 56° 55.53 Time

Density: Surf. fms.

Wind: Direction Force 4

Baromet. 30.4 Amt. of Clouds 1 State of Sea

Weather

Direction and Force of Current { Surface 53 rev. to 30 sec Bottom

Tide Flood

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Anchored Distance

Depth of Haul Inter.

Apparatus and Rig used 4'

Time towing h. 11/2 m.

Remarks: Calman water bottle

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
10	41	30	0	10	41	30
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
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			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			

Terrace } No. 1167 Date,, 1912
Hydrog. }

Sdg. Mch. Reel Tension Shot/Lead } 1/4 lbs.

Turns Cor'n Depth 6 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make L No. 1723 Cor'n { Instr. Stem.

Bottom Reading 25° P. 5-5° Cor'd Temp. 55.7°

Temp. Surf. { 56.0° Time 11:28 } Air { 55.5°

Density: Surf. fms.

Wind: Direction West Force 4-5

Baromet. 30.25 Amt. of Clouds .6 State of Sea 0

Weather

Direction and Force of Current { Surface 36 rev to 30 sec. Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Anchored Distance

Depth of Haul Inter

Apparatus and Rig used 4' Inter 2 Kelpins

Time towing h. 1 1/2 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A. M. Down.			Up. A. M.				A. M. Down.			Up. A. M.		
11	12	00	11	22	30	0	11	11	30	11	23	00
						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. 271 Date, _____, 1912
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 11 lbs.

Turns _____ Cor'n _____ Depth 7 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make TZ No. P. #1023 Cor'n { Instr. Stem.

Bottom Reading 57 Cor'd Temp. 61

Temp. Surf. { Time 11 } Air { 23 }
Time _____

Density: Surf. _____ fms. _____

Wind: Direction West Force 4-5

Baromet. _____ Amt. of Clouds 7 State of Sea _____

Weather _____

Direction and Force of Current { Surface 18 sec. to 30 sec. Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction Anchored Distance _____

Depth of Haul Inter.

Apparatus and Rig used 4 mts, 2 mts, _____

Time towing _____ h. 10 m.

Remarks: Echinura water bottle

Deck Officer _____ Recorder _____

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
Q. M. Down.	Up. Q. M.		Q. M. Down.	Up. Q. M.
11 31 00	11 49 00	0	11 39 00	1 25 00
		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__
Hydrog. } No. _____

Sdg. Mch. Lucas Reel Shot / 4 lbs.
Lead 14

Turns _____ Cor'n _____ Depth 5 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
 { No. 101 _____ { Stem. _____

Bottom Reading L. G. S. Cor'd Temp. 57.7

Temp. Surf. { 57.9 Time _____ } Air { 56
 { 57.3 Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction West Force 3

Baromet. 30.23 Amt. of Clouds 9 State of Sea C

Weather B. C.

Direction and Force of Current { Surface 14-13
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used 4' Int. _____

Time towing _____ h. 0 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

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

12 N 0/2 150

FMS.

DREDGING CABLE.

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

Trawl or Hydrog. No. 5-114 Date, May 1, 1912

Sdg. Mch. Reel Shot Lead lbs.

Turns Cor'n Depth 4 1/2 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

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

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. 30.23 Amt. of Clouds 6 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. 10 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
12			0	12		
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
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			1700			
			1800			
			1900			
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			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
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			3600			
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			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5119 Date, 2/1/1912

Hydrog. }
Sdg. Mch. Reel Shot Lead 10 lbs.

Turns Cor'n Depth 6 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. 410191023 Cor'n { Instr. Stem.

Bottom Reading 57.2 57.2 Cor'd Temp. 57.2

Temp. Surf. { 57.6 Time 1:10 P } Air { 56 }
57.33 Time

Density: Surf. fms.

Wind: Direction West Force 4

Baromet. 30.23 Amt. of Clouds 8 State of Sea C

Weather haze.

Direction and Force of Current { Surface 10. P. S. 30 sec. Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Amaloned Distance

Depth of Haul Inter

Apparatus and Rig used 1' ...

Time towing h. 10 m.

Remarks: ...

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
/	00	1	0)	00	00
		10	100			1
		00	200			10
			300			30
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
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			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Tredge } No. 5120 Date, June 6, 1912
Hydrog. }

Sdg. Mch. Lucas Reel L Shot/Lead 14 lbs.

Turns ----- Cor'n ----- Depth 9 3/4 fms.

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

Character of Bottom -----

Thermom. { Make N3: L4 1019, R: 23 Instr. -----
 { No. L: 55.3 R: 55.3 Cor'n -----
 { Stem. -----

Bottom Reading ----- Cor'd Temp. 50.1

Temp. Surf. { 57.6 Time 4:19.2 } Air { 57.5
 { 57.3 Time ----- } -----

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

Wind: Direction SW Force 2-3

Baromet. 29.78 Amt. of Clouds 1 State of Sea S

Weather bc

Direction and Force of Current { Surface 1 1/2 " S. by E.
 { Bottom -----

Tide -----

General Locality -----

Position -----

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

Drift: Direction ----- Distance -----

Depth of Haul Inter.

Apparatus and Rig used 4' Lucas & 2' Lucas

Time towing ----- h. 0 m.

Remarks: -----

Deck Officer Mr. Stanley Recorder [Signature]

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
11	09	00	0	10	57	-
			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. 5121 Date, _____, 1912
Hydrog. }

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

Turns _____ Cor'n _____ Depth 75 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make TB, 10/9-1023 } Instr. _____
 { No. B: 7.8 E. 3 } Cor'n { Stem. _____

Bottom Reading _____ Cor'd Temp. 54.61

Temp. Surf. { 72.4 } Time 11:58 a.m. } Air { _____
 { 56.73 } Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction SW Force 4-5

Baromet. 29.78 Amt. of Clouds 1 State of Sea _____

Weather bc

Direction and Force of Current { Surface } ~~SE~~ _____
 { Bottom } _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul 200

Apparatus and Rig used 1' 7" + 2 25'

Time towing _____ h. 15 m.

Remarks: _____

Deck Officer _____

Recorder _____

SOUNDING WIRE.

a M. DOWN.		UP.	A M.		
11	38	05	11	48	10

FMS.

DREDGING CABLE.

a M. DOWN.		UP.	A M.	
11	57	05	11	55

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
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3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

Dredge } No. 5122 Date, May 6, 1912
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot Lead 14 lbs.
Turns _____ Cor'n _____ Depth 15 3/4 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make *H. G.* Cor'n { Instr. _____
 { No. *S 1019; P 1023* { Stem. _____

Bottom Reading *L: 5-4.3 R: 5-4.3* Cor'd Temp. _____

Temp. Surf. { *5-5.6°* Time *12:43* } Air { *5-5.0°*
 { _____ Time _____ } { _____

Density: Surf. _____ fms. _____

Wind: Direction *S.W.* Force *4*

Baromet. *29.75* Amt. of Clouds *0* State of Sea _____

Weather *Clear*

Direction and Force of Current { Surface *S to 11 mi. to 30 mi.*
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction *Anchored* Distance _____

Depth of Haul *Entire*

Apparatus and Rig used *4' intermediate, 2 Kongs, 1 m...*

Time towing _____ h. *11* m.

Remarks: *Edman ...*

Deck Officer _____ Recorder _____

SOUNDING WIRE		FMS.	DREDGING CABLE	
<i>P</i> M. Down.	Up. <i>P</i> M.		<i>P</i> M. Down.	Up. <i>P</i> M.
12 29 00	12 41 30	0	12 32 00	12 48 00
		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		
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		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

Hydrog. } No. 5723 Date, May 6, 1912

Sdg. Mch. Lucas Reel Shot Lead 14 lbs.

Turns Cor'n Depth 7 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make N.Y. Cor'n { Instr. No. L: 1019 R: 1023 Stem.

Bottom Reading L. 54.9 S. 54.8 Cor'd Temp. 54.11

Temp. Surf. { 58.9 Time 1:12 } Air { 59 Time 5:12

Density: Surf. fms.

Wind: Direction S.W. Force 4

Baromet. 27.75 Amt. of Clouds 1 State of Sea 2

Weather bc

Direction and Force of Current { Surface 2.7.3 Rev. to 3.0 sec Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Anchored Distance

Depth of Haul Inter.

Apparatus and Rig used 4' Inter. ...

Time towing n. 14 1/2 m.

Remarks: Ecu. water

Deck Officer T.H. Stanger Recorder C. B. ...

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<i>Z</i> M. Down.	Up.	<i>Z</i> M.		<i>Z</i> M. Down.	Up.	<i>Z</i> M.
12	59	00	0	12	59	00
		1	10			30
		00				
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
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			2300			
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			2700			
			2800			
			2900			
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			3100			
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			3300			
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			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
1 26 00	1 36 20		0	1 27 30	1 37 30	
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
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			2200			
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			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
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			3700			
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			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Tredge } No. 1571 Date, May 1912
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot Lead 14 lbs.

Turns ----- Cor'n ----- Depth 8 1/2 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make T. Z. No. L. 1019 R. 1023 Cor'n { Instr. Stem. L: 55.8° R: 55.7°

Bottom Reading ----- Cor'd Temp. 55.61

Temp. Surf. { 55.3° Time 2.01 } Air { 59° Time

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

Wind: Direction S.W. Force 4-6

Baromet. 29.74 Amt. of Clouds 1 State of Sea

Weather bc.

Direction and Force of Current { Surface 32-34 rev. to 30 sec. Bottom

Tide -----

General Locality -----

Position -----

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

Drift: Direction Drifted Distance

Depth of Haul Inter

Apparatus and Rig used 4' Dredge, a 10' sinker.

Time towing h. 10 m.

Remarks: Bottom water

Deck Officer Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.						
P.M. Down.		Up.	P.M.		P.M. Down.		Up.	P.M.			
1	51	00	2	01	10	1	51	30	2	01	30
					0						
					100						
					200						
					300						
					400						
					500						
					600						
					700						
					800						
					900						
					1000						
					1100						
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					3900						
					4000						
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					4800						
					4900						

Hydrog. } No. 5726 Date, May 6, 1912

Sdg. Mch. Lucas Reel Lucas Shot/Lead 14 lbs.

Turns ----- Cor'n ----- Depth 8 fms.

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

Character of Bottom -----

Thermom. { Make (W. & S.) Cor'n { Instr. No. L1019 R1023 Stem. -----

Bottom Reading L: 55.9° R: 55.5° Cor'd Temp. 55.1

Temp. Surf. { 57.18° Time 2:20 } Air { 55.0° Time -----

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

Wind: Direction S.W. Force 5-6

Baromet. 29.72 Amt. of Clouds 1 State of Sea 2

Weather bc

Direction and Force of Current { Surface 31-34-36 rev. to 30 sec. Bottom -----

Tide -----

General Locality -----

Position -----

Chart used: No. ----- Rd'n. -----

Drift: Direction Anchored Distance -----

Depth of Haul Inter

Apparatus and Rig used 4' Inter, 2 K. Sigs, 1 sinker

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

Remarks: Ecumum water net

Deck Officer [Signature] Recorder [Signature]

SOUNDING WIRE.				FMS.	DREDGING CABLE.							
P.	M.	Down.	Up.		P.	M.	Down.	Up.				
2	15	00	2	25	20	0	2	15	00	2	26	00
					100							
					200							
					300							
					400							
					500							
					600							
					700							
					800							
					900							
					1000							
					1100							
					1200							
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					4000							
					4100							
					4200							
					4300							
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					4800							
					4900							

Dredge } No. 5127 Date, May 6, 1912
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 1 lbs.

Turns ----- Cor'n ----- Depth 10 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom -----

Thermom. { Make Lucas Cor'n { Instr. -----
 { No. L1019 R1023 { Stem. -----

Bottom Reading 56.0 57.9 Cor'd Temp. 56.0

Temp. Surf. { 56.0 Time 2:15-5- } Air { 57.5°
 { 57.73 Time ----- } -----

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

Wind: Direction S.W. Force 5-6

Baromet. 29.72 Amt. of Clouds 1 State of Sea S

Weather bc -----

Direction and Force of Current { Surface 25-25 to 30 sec.
 { Bottom -----

Tide -----

General Locality -----

Position -----

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

Drift: Direction Anchored Distance -----

Depth of Haul Inter -----

Apparatus and Rig used 4' Dredge, 2 leads, 1 line

Time towing h. 14 m.

Remarks: Bottom water with

Deck Officer [Signature] Recorder [Signature]

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
P. M. Down.	Up. P. M.		P. M. Down.	Up. P. M.
2 44 00	2 54 20	0	2 44 00	2 57 20
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
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		2000		
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		2400		
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		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
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		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

SOUNDING WIRE.

DREDGING CABLE.

M. Down. | Up. | M.

FMS.

M. Down. | Up. | M.

Handwritten notes:
~~11/20/08~~
 3 fms.

0	1' 36" 30	2' 56" 30
100		
200		
300		
400		
500		
600		
700		
800		
900		
1000		
1100		
1200		
1300		
1400		
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3600		
3700		
3800		
3900		
4000		
4100		
4200		
4300		
4400		
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4600		
4700		
4800		
4900		

Dredge } No. 5779B Date, May 14, 1912
 Hydrog. }
 Sdg. Mch. Hand Reel Shot Leads 14 lbs.
 Turns Cor'n Depth 3 fms.
 Sdg. Cup Amt. Bot'm Sample
 Character of Bottom

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

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air { Time

Density: Surf. fms.

Wind: Direction Force 6-1

Baromet. Amt. of Clouds 10 State of Sea S

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used 1 Tanner-towed beam trawl of water by large motor boat.

Time towing h. 27 m.

Remarks: Towed along beach

Deck Officer Wm Portefield Recorder 11-1023
 in charge of boat

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

- 0 / 0 00 20 / 0 27 30
- 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

1/7 hrs. 5:24
3 fms.

Dredge } No. D. 577 Date, May 8, 1912

Sdg. Mch. Hand lead Reel _____ Shot/Lead 12 lbs.

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

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

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

Bottom Reading _____ Cor'd Temp. _____

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

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul Bottom

Apparatus and Rig used 2 Tanner Towed
Lead of 12 lbs. by large
rope, 100 ft.

Time towing _____ h. _____ m.

Remarks: Confirmation of Tanner
lead of 12 lbs. by large
rope, 100 ft. carried away.

Deck Officer _____ Recorder F. W. C. Piper

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0	10	55	30	11	30	30
100						
200						
300						
400						
500						
600						
700						
800						
900						
1000						
1100						
1200						
1800						
1400						
1500						
1600						
1700						
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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						

Continuing former soundings of level.

100 fms.
2 1/2 fms.

Dredge } No. 5780 Date, July 13, 1912

Sdg. Mch. Handled Reel Shot Lead 14 lbs.

Turns Cor'n Depth 5 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

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

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air { 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

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used Mouthpiece from bottom

Time towing 1 h. 13 m.

Remarks: Towing from 5 pm to 1 pm.

Intercepted at bottom
Clay Bk.

Recorder

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | M.

10 M. Down. | Up. | *10* M.

SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		<i>10</i> M. Down.	Up.	<i>10</i> M.			
<i>2 1/2 hrs</i>	-	<i>15 mi</i>	0	<i>12</i>	<i>40</i>	<i>00</i>	<i>12</i>	<i>22</i>	<i>00</i>
"	-	"	100	<i>1</i>	<i>00</i>	<i>00</i>	<i>1</i>	<i>15</i>	<i>00</i>
"	-	"	200	<i>1</i>	<i>19</i>	<i>00</i>	<i>1</i>	<i>33</i>	<i>00</i>
"	-	"	300	<i>1</i>	<i>37</i>	<i>00</i>	<i>1</i>	<i>51</i>	<i>00</i>
"	-	"	400						
"	-	"	500	<i>1</i>	<i>55</i>	<i>00</i>	<i>2</i>	<i>10</i>	<i>00</i>
			600						
			700						
			800						
			900						
			1000						
			1100						
			1200						
			1300						
			1400						
<i>Hy</i>	<i>1/2 hr</i>	<i>15</i>	1500						
			1600						
			1700						
<i>1 hr</i>			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. 5780 B Date, May 13, 1912
Hydrog. }

Sdg. Mch. *Lucas* Reel _____ Shot/Lead 14 lbs.

Turns _____ Cor'n _____ Depth 7 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

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

Bottom Reading _____ Cor'd Temp. _____

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

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul *Small Tuna*

Apparatus and Rig used *Used by from other*

Time towing _____ h. 53 m.

Remarks: *From 5 fms. to 7 fms.*

Deck Officer *Porter*
Chas. Porter

Recorder *[Signature]*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
		20	100	2 1/4		
		20	200	2 4/8		
		10	300	3	20	20
		53	400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
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			2500			
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			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
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			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

~~Hy 5-4 H~~

5-4

Dredge } No. 528 Date, May 11, 1912
Hydrog. }

Sdg. Mch. Lucas Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make n. 2. No. 2.410.14.8.11.12.23 Cor'n { Instr. Stem.

Bottom Reading 2.54.6 Cor'd Temp. 54.4

Temp. Surf. { 52.9 Time Air {

Density: Surf. fms.

Wind: Direction S.W. Force 0-1

Baromet. 23 Amt. of Clouds 8 State of Sea S

Weather

Direction and Force of Current { Surface 29 (Peris: 30 sec. Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used 4' Inter

Time towing h. m.

Remarks:

Deck Officer Mr. Petting Recorder L. W. ...

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
7	00	00	0	7	05	00
			100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
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			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			

28

Trawl Hydrog. No. 130 Date, Ma, 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. 119181023 { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 54.3 Time 8:05 A } Air { 60
 { 51 { {

Density: Surf. fms.

Wind: Direction S.W Force 2-1

Baromet. 30.24 Amt. of Clouds 8 State of Sea 5

Weather bc

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Under way Distance

Depth of Haul Inter

Apparatus and Rig used Inter. 1 Hand

Time towing h. m.

Remarks: Bottom 10

Deck Officer

Recorder

SOUNDING WIRE.

M. Down. Up. M.

7 | 55 | 00 | 8 | 05 | 00

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 | 55 | 00 | 8

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | M.

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

9 2 2 10

2 3 2

Hydrog. No. ²⁷ 5133 Date, May 14, 1912
Sdg. Mch. Lucas Reel Lucas Shot Lead 10 lbs.
Turns ----- Cor'n ----- Depth 14 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom

Thermom. { Make R.G. Instr. -----
 { No. L. 1019 R. 1023 Cor'n { Stem. -----

Bottom Reading 5375 Cor'd Temp. 53.81

Temp. Surf. { 54° Time 10:06 } Air { 60°
 { 53.75 Time ----- } { -----

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

Wind: Direction South Force 1

Baromet. 30.22 Amt. of Clouds 9 State of Sea 5

Weather bcg

Direction and Force of Current { Surface 44 sec to 30 sec
 { Bottom -----

Tide flood

General Locality -----

Position -----

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

Drift: Direction ----- Distance -----

Depth of Haul Intermediate

Apparatus and Rig used 4' Trawl, 2 trawls, 1 net.

Time towing ----- h. 10 m.

Remarks: Echinus sp. etc.

Deck Officer J. C. Gray Recorder W. B. Peck

SOUNDING WIRE.

Q M. Down.	Up.	Q M.
9 59 10	10 05 00	

FMS.

DREDGING CABLE.

Q M. Down.	Up.	Q M.
9 59 10	10 05 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

Hydrog. No. 5130 Date, Dec 17, 1912

Sdg. Mch. Lucas Reel Shot Lead 14 lbs.

Turns Cor'n Depth 14 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make O.S. Cor'n { Instr. No. 1017 Stem.

Bottom Reading 5.5 Cor'd Temp. 53.5

Temp. Surf. { 53.7 Time 11:00 } .1ir { 53.63 Time

Density: Surf. fms.

Wind: Direction South Force 1-2

Baromet. 30.22 Amt. of Clouds 9 State of Sea 2

Weather fog

Direction and Force of Current { Surface 29 rev to 30 sec Bottom

Tide flood

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul 200 fms

Apparatus and Rig used 4' trawl, 2 gages, 1 sinker

Time towing h. 10 m.

Remarks: Calm water

Deck Officer Recorder

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | T. M.

M. Down. | Up. | T. M.

10 55 00 | 11 05 00

10 55 00 | 11 05 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

SOUNDING WIRE.

9 M. Down.		Up.	P. M.	
11	55	00	12	05

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.

9 M. Down.		Up.	P. M.	
11	55	00	12	05

11	55	00	12	05
----	----	----	----	----

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down.		Up.		M.	
12	56	00	1	05	00

M. Down.		Up.		M.	
12	55	00	1	05	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

28

dredge } No. 5130 Date, _____, 1910

Sdg. Mch. _____ Reel L Shot Leads 12 lbs.

Turns _____ Cor'n _____ Depth 14 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make NI No. L; R: 1023 Cor'n { Instr. _____ Stem. _____

Bottom Reading L: 54° R: 54° Cor'd Temp. 53.2

Temp. Surf. { 52.3° Time 2:05 } Air { 56° }
 { 51.5° Time _____ } { _____ }

Density: Surf. _____ fms. _____

Wind: Direction S-W Force 3

Baromet. 30.24 Amt. of Clouds 5 State of Sea S

Weather _____

Direction and Force of Current { Surface 44 fms. _____ Bottom _____

Tide _____

General Locality S. F. _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul Inter.

Apparatus and Rig used 4' Inter. & _____

Time towing _____ h. 10 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up. <i>0</i> M.		M. Down.	Up. <i>0</i> M.
<i>1</i>	<i>53 00</i>	0	<i>1</i>	<i>45 00</i>
	<i>2 05 00</i>	100		<i>2 05 00</i>
		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. 28 5130 Date, _____, 1911

Sdg. Mch. Lucas Reel L Shot/Lead 11 lbs.

Turns _____ Cor'n _____ Depth 114 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make T. Instr. _____
No. 1019 / 1023 Cor'n { Stem. _____

Bottom Reading 7.5 Cor'd Temp. 52.2

Temp. Surf. { 56.3 Time 5:05 } Air { 57.0
56.03 Time _____

Density: Surf. _____ fms. _____

Wind: Direction 77 Force 3

Baromet. 29.2 Amt. of Clouds 5 State of Sea 1

Weather Bcs

Direction and Force of Current { Surface 49
Bottom _____

Tide ebb

General Locality S.F. Bay

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul 100

Apparatus and Rig used 4 Trawl

Time towing _____ h. 12 m.

Remarks: _____

Deck Officer Mr. Clancy Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
2	55	00	0	2	55	00
			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			

Bridge } No. 5130 Date, Jan 10, 1912
Hydrog. }
Sdg. Mch. Lucas Reel 2 Shot/Lead 14 lbs.
Turns ----- Cor'n ----- Depth 14 fms.
Sdg. Cup ----- Amt. Bot'm Sample -----
Character of Bottom -----

Thermom. { Make N-3 Cor'n { Instr. -----
 { No. 1019 { Stem. -----
Bottom Reading 54.7 Cor'd Temp. 54.1
Temp. Surf. { 57.8 Time 4.05 P } dir { 170 }
 { ----- Time ----- } -----

Density: Surf. ----- fms. -----
Wind: Direction S-W Force 3-5
Baromet. 30.22 Amt. of Clouds 5 State of Sea 3
Weather B

Direction and Force of Current { Surface 34 var. to 30 sec
 { Bottom -----

Tide ... low

General Locality S. F. Bay

Position -----

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

Drift: Direction ----- Distance -----

Depth of Haul Inten

Apparatus and Rig used 4' Inten and 2' Net

Time towing: 10 m.

Remarks: Echinoderms, etc.

Deck Officer Mr. Loney Recorder (F. H. H. H.)

SOUNDING WIRE.

DREDGING CABLE.

FMS.

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. Down.	Up.		M. Down.	Up.
3	54	0	3	54
30	4	100	35	4
		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

Hydrog. No. 5-130 Date, May 14, 1912

Sdg. Mch. Lucas Reel Lucas Shot/Lead 14 lbs.

Turns Cor'n Depth 14 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make R.G. Instr. No. 5107 P. 1003 Cor'n Stem.

Bottom Reading 5-20, 5-5 Cor'd Temp. 57.86

Temp. Surf. { 57.8 Time 4:06 Air { 59 Density: Surf. fms.

Wind: Direction Force 3

Baromet. 30.22 Amt. of Clouds 7 State of Sea

Weather bc

Direction and Force of Current { Surface 22 rev. to 30 sec. Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used 4' beam trawl, 2 Kyaloids

Time towing h. 1 m.

Remarks: Collected water bottle

Deck Officer Recorder

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
P. M. Down.	Up. P. M.		P. M. Down.	Up. P. M.
4 55.00	5 00.00	0	4 55.00	5 00.00
		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

Dredge } No. 5130 Date, June 17, 1912
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 14 lbs.

Turns Cor'n Depth 14 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make T.P. Instr. No. 21069 R1023 Cor'n Stem.

Bottom Reading 5.5 1.0 5.5 Cor'd Temp. 55.2

Temp. Surf. { 57.3 Time 6:05 } Air { 57.3 }
57.53 Time

Density: Surf. fms.

Wind: Direction S.W. Force 2

Baromet. 30.2 Amt. of Clouds 5- State of Sea 5

Weather

Direction and Force of Current { Surface 14 rev to 30 sec. Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Circ. Distance

Depth of Haul 14

Apparatus and Rig used 4' net, 2 mesh

Time towing h. 1.0 m.

Remarks: Collected water

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
P. M. Down.	Up.	P. M.		P. M. Down.	Up.	P. M.
5-55-00	6-05-00	00	0	5-55-00	6-05-00	00
			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			

8.48

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. Up. M.

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

645 00 148 00

7/11 515/3

Hydrog. No. 1215 Date, 11/11/1911

Sdg. Mch. Hand Reel Shot Lead 16 lbs.

Turns Cor'n Depth 234 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

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

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force 0-1

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

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 Recorder

SOUNDING WIRE.

M. Down. | Up. | M.

DREDGING CABLE:

FMS.

M. Down. | Up. | M.

0	8	57	36	9	08	3
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						

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
			0	3300	940	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			

Wedge } No. 5151d Date, 11/10/1911

Hydrog. } Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 8 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

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

Bottom Reading Cor'd Temp.

Temp. Surf. { Time } Air

Density: Surf. fms.

Wind: Direction Force 0-1

Baromet. Amt. of Clouds 2 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 mud tube

Remarks: Time towing h. m.

Deck Officer Recorder

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0

950 00 | 953 00

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

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		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			

Dredge } No. 112 Date, Feb 27, 1912

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

Turns _____ Cor'n _____ Depth 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. { Time _____ } Air { Time _____

Density: Surf. _____ fms. _____

Wind: Direction WSW Force 4

Baromet. 30.10 Amt. of Clouds _____ State of Sea R

Weather Bcg

Direction and Force of Current { Surface _____
 { Bottom _____

Tide Ebb

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction 7 m in circle Distance 0.3 m

Depth of Haul bottom

Apparatus and Rig used M. S. Rig

Time towing _____ h. _____ m.

Remarks: Inside of net - led; 1/2 m. water

Deck Officer _____ Recorder _____

SOUNDING WIRE.

DREDGING CABLE.

FMS.

M. Down. | Up. | M.

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
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- 3100
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- 3600
- 3700
- 3800
- 3900
- 4000
- 4100
- 4200
- 4300
- 4400
- 4500
- 4600
- 4700
- 4800
- 4900

3 00 00 3 02 00

5/53

U

Dredge } No. 3 Date, May 28, 1912
Hydrog. }

Sdg. Mch. Reel Shot/Lead 2 lbs.

Turns _____ Cor'n _____ Depth 2 fms.

Sdg. Cup Amt. Bot'm Sample _____

Character of Bottom _____

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

Bottom Reading _____ Cor'd Temp. _____

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

Density: Surf. _____ fms. _____

Wind: Direction _____ Force 3

Baromet. _____ Amt. of Clouds 1 State of Sea 1

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul Bottom

Apparatus and Rig used Trawl bag from cutter

in tow of large motor boat

Time towing _____ h. _____ m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

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

12.36.00 / 05.00

Depth 5732
0.57.5783
2 fath.

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

Dredge } No. 573 Date, May 28, 1912

Sdg. Mch. Reel Shot/Lead 14 lbs.

Turns Cor'n Depth 112 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

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

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force 3

Baromet. Amt. of Clouds 1 State of Sea

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used Trawl towed from cutter in tow of large motor boat.

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

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
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- 2200
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- 4000
- 4100
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- 4900

1 18 00 | 1 40 00

3 23 0

Dr. 57846

5133

134 fath.

Dredge } No. 7.71 Date, _____, 191
Hydrog. }
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. 57.71

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

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 1-3

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

Weather b.c.f.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction at anchor Distance _____

Depth of Haul _____

Apparatus and Rig used 4' Inter: _____

Time towing _____ h. 13 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
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- 1600
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- 4100
- 4200
- 4300
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- 4700
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- 4900

Trawl Hydrog. No. 2151 Date, July 29, 1912

Sdg. Mch. ~~_____~~ Reel Shot/Lead 14 lbs.

Turns _____ Cor'n _____ Depth 22 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

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

Bottom Reading _____ Cor'd Temp. 57.0

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

Density: Surf. _____ fms. _____

Wind: Direction S Force 1-3

Baromet. 30.12 Amt. of Clouds 2 State of Sea S

Weather hcf

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: _____

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

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

10 30 00 10 30 00

0

10 06 00 | 10 30 00

* 100

10 35 00 | 10 40 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

Dredge } No. 5100 Date, July 22, 1912
Hydrog }
Sdg. Mch. Reel Shot 14 lbs.
Leads
Turns Cor'n Depth 16 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom

Thermom. { Make WW } Cor'n { Instr. }
{ No. J. 10190 } { Stem. }

Bottom Reading, 58.3 1' 58.2 Cor'd Temp.

Temp. Surf. { 60.5 Time 11:00 A } Air {
60.23 Time

Density: Surf. fms.

Wind: Direction S Force 2-4

Baromet. 30.11 Amt. of Clouds 2 State of Sea 0

Weather hazy

Direction and Force of Current { Surface }
{ Bottom }

Tide

General Locality

Position

Chart used: No. Ed'n

Drift: Direction Anchored Distance

Depth of Haul Inter

Apparatus and Rig used 1' 58.2

Time towing h. 11 m.

Remarks: * Towed for ...

Deck Officer Recorder

SOUNDING WIRE.

M. Down. | Up. | M.

1 6 1 4 0 0 | 1 4 0 0 0 0

FMS.

- 0
- * 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
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- 3100
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- 3700
- 3800
- 3900
- 4000
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- 4300
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- 4900

DREDGING CABLE.

M. Down. | Up. | M.

10 5 1 5 0 11 0 2 0 0
 16 0 2 0 0 11 0 7 0 0

Dredge } No. 133 Date July 1901
Hydrog. }
Sdg. Mch. _____ Reel _____ Shot/Lead 8 lbs.
Turns _____ Cor'n _____ Depth 8 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make No. 1 Cor'n { Instr. Stem.
Bottom Reading 259.8 258.1 Cor'd Temp. 62
Temp. Surf. { 63 Time 11:30 A } Air { 62
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 _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used H' later: 2 Kof.

Time towing _____ h. 12 1/2 m.

Remarks: * ... under way.

Deck Officer _____ Recorder _____

SOUNDING WIRE.			FMS.	DREDGING CABLE.						
A. M. DOWN.	UP.	A. M.		A. M. DOWN.	UP.	A. M.				
11	20	45	11	30	45					
			0	11	21	00	11	33	30	
			*	100	11	33	30	11	38	30
				200						
				300						
				400						
				500						
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				3900						
				4000						
				4100						
				4200						
				4300						
				4400						
				4500						
				4600						
				4700						
				4800						
				4900						

Dredge } No. 5134 Date, July 22, 1912
Hydrog. }
Sdg. Mch. Smith Reel L Shot 14 lbs.
Leads }
Turns _____ Cor'n _____ Depth 10 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____

Thermom. { Make Wm. Cor'n { Instr. _____
 { No. 1.1019 P1023 Stem. _____
Bottom Reading 2.58.8 P58.6 Cor'd Temp. 58.56
Temp. Surf. { 64.9 Time 12:50 PM } Air { _____
 { 64.63 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 _____

Position _____
Chart used: No. _____ Ed'n _____

Drift: Direction Anchored Distance _____
Depth of Haul Inte

Apparatus and Rig used 4' Inte; 2 1/2 fms. of ood
1 sinker

Time towing _____ h. 18 m.
Remarks: Towed 10 minutes at anchor
and 8 min. underway, 5 fms cable
out at anchorage, 10 min. underway.

Deck Officer Mr. Clancy Recorder H. W. Chick
ATNH:11

3-72

2-49

23

