

*Survival Book
8000 to 8047*

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 8000 to 8047

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *5000* ✓
 Date, *June 15, 1914*
 Time of day, *10-10¹⁵ a.m.*; of tide, *Flood*
 Locality, *Hampden Roads Va*
 Exact position,
500
700 yds west Thimble St.
 Depth, *14 fathoms*
 Nature of bottom, *Brk S + gns.*
 Dredging instrument used, *Fish trawl bottom*
 Direction of drift, *No*; distance, *1 mi.*
 Temperature of air, *39* Fahr. therm. No., *—*
 " of surface water, *3.6* " *872*
 " at depth of *—* fathoms, " *—*
 " at bottom, *3.65* " *831*
 Density at surface, temp., Celsius.
 " at depth of *—* fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.09*
 State of sky, *Stazy*
 Direction of wind *S.W.*; force, *5*
 Rain,
 Direction of surface current, *W. and*; force, *3 knots*
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 37°
Long. 76° 14' 30"
Chart # 1222

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *8001* ✓
 Date, *Jan 15th 1894*
 Time of day, *10⁴⁵ to 10³⁵*; of tide, *Flood*
 Locality, *Thimble Shoal*
 Exact position, *300*
100 yds S. H.

 Depth, *13 - 10 1/4*
 Nature of bottom,
 Dredging instrument used *Fish trawl*
 Direction of drift, ; distance,
 Temperature of air, Fahr. therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.03*
 State of sky, *Hazy*
 Direction of wind *S. H.*; force, *5*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 37°
Long 76° 14' 30"

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *P 002*
 Date, *Jan 15/14*
 Time of day, *10-40* ; of tide, *High*
 Locality, *Thimble Shoal*
 Exact position, *400* ~~100~~ *yds. south*
 Depth, *14-12*
 Nature of bottom,
 Dredging instrument used, *Disk trawl, 100 yds.*
 Direction of drift, ; distance,
 Temperature of air, Fahr. therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.00*
 State of sky, *Hazy*
 Direction of wind *S. E.* ; force, *5-*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 37°
Long. 76° 14' 30"

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No.

S 00 3 ✓

Date,

Jan. 15-14

Time of day,

11²⁰ - 11³¹

; of tide,

Flood

Locality,

Shimble Shoal

Exact position,

7⁵⁰
150 yds SE

Depth,

9-10

Nature of bottom,

Dredging instrument used,

8' beam trawl

Direction of drift,

; distance,

Temperature of air,

Fahr. therm. No.,

" of surface water,

"

" at depth of fathoms,

"

" at bottom,

"

Density at surface,

temp.,

Celsius.

" at depth of fathoms,

"

" at bottom,

"

Number of salinometer,

Barometer reading,

29.97

State of sky,

Hazy

Direction of wind

Cold

; force,

3

Rain,

Direction of surface current,

; force,

" of bottom

"

; force,

Name and position of observer,

11-1068

Lat 37
Long 76° 14' 30"

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No.

Date,

Time of day,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift,

Temperature of air,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface,

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind

Rain,

Direction of surface current,

" of bottom

Name and position of observer,

11-1068

Lat 37°
 Long. 76° 14' 30"

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *A 005 ✓*
 Date, *Jan 15/14*
 Time of day, *2:15* ; of tide, *slack*
 Locality, *Thimble Shoal*
 Exact position, *⁸⁵⁰ 200 yds West*

 Depth, *14 fms*
 Nature of bottom, *Sand*
 Dredging instrument used, *beam trawl*
 Direction of drift, ; distance,
 Temperature of air, Fahr. therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.93*
 State of sky, *Hazy*
 Direction of wind *West* ; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 35°
Long 76° 14' 30"

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *8006* ✓Date, *Jan 15/14*Time of day, *2⁰⁵ 7¹⁵*; of tide, *slack*Locality, *Thimble Shoal*Exact position, *800 yds West SE 1/2 E*Depth, *14-12*Nature of bottom, *sand*Dredging instrument used, *beam trawl*

Direction of drift,

; distance,

Temperature of air,

Fahr. therm. No.,

" of surface water,

"

" at depth of fathoms,

"

" at bottom,

"

Density at surface,

temp.,

Celsius.

" at depth of fathoms,

"

" at bottom,

"

Number of salinometer,

Barometer reading, *29.93*State of sky, *Hazy*Direction of wind *West*; force, *2*

Rain,

Direction of surface current,

; force,

" of bottom "

; force,

Name and position of observer,

11-1068

Lat 37°
Long. 76°14'30"

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *5007* ✓
 Date, *Jan 15/14*
 Time of day, *4:05 P.M.*; of tide, *ebb*
 Locality, *Inside Hampton Roads*
 Exact position, *mi S.W. of*
Old Ft. Comfort
 Depth, *13-14*
 Nature of bottom, *mud + cinders*
 Dredging instrument used, *fish trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, _____ Fahr. therm. No., _____
 " of surface water, _____ "
 " at depth of _____ fathoms, _____ "
 " at bottom, _____ "
 Density at surface, _____ temp., _____ Celsius.
 " at depth of _____ fathoms, _____ "
 " at bottom, _____ "
 Number of salinometer, _____
 Barometer reading, *29.92*
 State of sky, *Hazy*
 Direction of wind *West*; force, *1*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name and position of observer, _____

11-1068

Lat 36° 59' 30"
Long 76° 14' 24"

#1222

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No.

A 00 P ✓

Date,

Jan 15 / 14

Time of day

4²⁵ - 4⁴⁰

; of tide,

Ebb

Locality,

Inside Hampton Roads

Exact position,

1/2 mile S of Pt. W. Cr.

Old Pt. Comfort.

Depth,

Nature of bottom,

Mud.

Dredging instrument used,

Fish trawl

Direction of drift,

; distance,

Temperature of air,

Fahr. therm. No.,

" of surface water,

"

" at depth of fathoms,

"

" at bottom,

"

Density at surface,

temp.,

Celsius.

" at depth of fathoms,

"

" at bottom,

"

Number of salinometer,

Barometer reading,

29.90

State of sky,

Bazy

Direction of wind

West

; force,

1

Rain,

Direction of surface current,

; force,

" of bottom

"

; force,

Name and position of observer,

11-1068

Lat 36° 59' 18"
 Long 76° 20'

1222

NOTES RELATING TO STATION NO.

5008

4:40 P.M. Fish tanks
carried away when
hauling in.

BEYOND THE POINT OF OBEDIENCE

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2009 ✓*Date, *Jan 16 / 14*Time of day, *9¹² - 9³⁰* ; of tide, *Flood*Locality, *Cape Charles*Exact position, *3 mi S. H. 35 ft. Channel*Depth, *5 1/2 - 6 1/2*Nature of bottom, *Hard sand*Dredging instrument used, *Saw trawl*Direction of drift, *N. W.* ; distance, *200 yds*Temperature of air, *39*Fahr. therm. No. *112*" of surface water, *40*

" at depth of

fathoms,

" at bottom,

Density at surface,

temp.,

Celsius.

" at depth of

fathoms,

" at bottom,

Number of salinometer,

Barometer reading, *29.90*State of sky, *Partly clear*Direction of wind *S. E.* ; force, *3*

Rain,

Direction of surface current, *N. W.* ; force,

" of bottom

"

; force,

Name and position of observer,

11-1068

*Lat 37° 04' 42"**Long 76° 09' 18"**# 1222*

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No.

2010 ✓

Date,

Jan 16 / 14

Time of day,

10¹² - 10²⁰

; of tide,

Hood

Locality,

Cape Charles

Exact position,

1 1/2 mi. due north

Depth,

6 - 6 1/2

Nature of bottom,

Gy. S., bk. sp.

Dredging instrument used,

beam trawl

Direction of drift,

N. W.

; distance,

Temperature of air,

38°

Fahr. therm. No.,

" of surface water,

40

" at depth of

fathoms,

" at bottom,

3.9°

Density at surface,

temp.,

Celsius.

" at depth of

fathoms,

" at bottom,

Number of salinometer,

Barometer reading,

29.90

State of sky,

Partly clear

Direction of wind

S.E.

; force,

3

Rain,

Direction of surface current,

N. W.

; force,

3

" of bottom

"

; force,

Name and position of observer,

11-1068

Lat 37° 08' 30"
 Long 76° 07' 18"

1222

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *A011*
 Date, *Aug 16 / 14*
 Time of day, *11¹⁰ 20* of tide, *3/4 Flood*
 Locality, *Off Cape Charles City*
 Exact position, *2 m. N. S. E. 1/2 m. Cherrystone light*
 Depth, *15 16*
 Nature of bottom, *Blue mud & sand*
 Dredging instrument used, *haul trawl*
 Direction of drift, *N.*; distance, *2 miles*
 Temperature of air, *41° F* Fahr. therm. No.,
 " of surface water, *33°* "
 " at depth of *15* fathoms, *37°* "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.85*
 State of sky, *Hazy*
 Direction of wind *SE*; force, *4*
 Rain,
 Direction of surface current, *N. W.*; force, *1/2*
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 35° 15'
Long 76° 04' 30'

1222

NOTES RELATING TO STATION NO. 7011

Air temp 45°F Surface
temp 3.5c

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2012* ✓
 Date, *Jan 16/14*
 Time of day, *12⁵ - 1⁴⁸*; of tide, *High*
 Locality, *Off Cape Charles*
 Exact position, *2 m. N. of Old Plantations light.*
 Depth, *15 1/2 - 22 - 10*
 Nature of bottom, *blue mud + sand*
 Dredging instrument used, *beam trawl*
 Direction of drift, *west*; distance, *1/2 mi.*
 Temperature of air, *42°* Fahr. therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.71*
 State of sky, *Partly clear*
 Direction of wind *SE*; force, *4*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 37° 15'
Long 76° 04' 48"

1772

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *As 13* ✓
 Date, *Jan 16 / 14*
 Time of day, *7⁰⁶ - 7²²*; of tide, *Flood*
 Locality, *Off Cape Charles City*
 Exact position, *3 miles N. W. Old plantation light*
 Depth, *19 1/2 - 6*
 Nature of bottom,
 Dredging instrument used, *beam trawl*
 Direction of drift, *N.*; distance, *500 yds*
 Temperature of air, *44* Fahr. therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.67*
 State of sky, *Partly clear*
 Direction of wind *SE.*; force, *4*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 37° 15' 36"
Long. 76° 05' 48"
#1222

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *8014*Date, *Jan 16/14*Time of day, *2³⁰ - 3¹²*; of tide, *1/4 ebb*Locality, *Cape Charles City*Exact position, *1/2 miles S of N*Depth, *12-11-15-14-14*

Nature of bottom,

Dredging instrument used, *beam trawl*Direction of drift, *N.*; distance, *300 yds*Temperature of air, *46°* Fahr. therm. No., *—*“ of surface water, *45c* “

“ at depth of fathoms, “

“ at bottom, “

Density at surface,

temp.,

Celsius.

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *29.63*State of sky, *Partly clear*Direction of wind, *SE*; force, *4*

Rain,

Direction of surface current,

; force,

“ of bottom “

; force,

Name and position of observer,

11-1068

Lat 37° 15' 54"
Long 76° 05' 17"

#1222

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *8015* ✓
 Date, *Jan 16/14*
 Time of day, *3²⁰ - 3³⁰*; of tide, *1/2 ebb*
 Locality, *Cape Charles City*
 Exact position, *3 miles due west*
Charles City 1.7 miles W 5/8 N of Cherrystone Lh
 Depth, *18 - 19 1/2*
 Nature of bottom, *soft H. mud*
 Dredging instrument used, *beam trawl*
 Direction of drift, *e.*; distance,
 Temperature of air, *45* Fahr. therm. No.,
 " of surface water, *48* "
 " at depth of *19* fathoms, "
 " at bottom, *38* "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.60*
 State of sky, *cloudy*
 Direction of wind *SE*; force, *4*
 Rain,
 Direction of surface current, *S.*; force, *3*
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 37° 15' 42"
Long. 76° 05' 30"

#1222

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2016*
 Date, *Jan. 17/14*
 Time of day, *10⁰⁵ 10²⁵*; of tide, *1/4 ebb.*
 Locality, *Pappanock River*
 Exact position, *1/4 m. due north from*
beacon
 Depth, *13 1/2 - 13*
 Nature of bottom, *sh. M.*
 Dredging instrument used, *Beam trawl*
 Direction of drift, *E*; distance, *100 yds*
 Temperature of air, *42* Fahr. therm. No.,
 " of surface water, *43*
 " at depth of *12* fathoms, *34*
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.54*
 State of sky, *Cloudy*
 Direction of wind *N. W.*; force, *6*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 37° 35' 30"
Long 76° 19' 54"

1223

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *8017*
 Date, *Jan 17/14*
 Time of day, *11¹⁵ - 11³⁷*; of tide, *slack*
 Locality, *Rappahannock River*
 Exact position, *1/2 mile due S. & Mosquito Pt.*
 Depth, *11 1/2 - 14 1/2*
 Nature of bottom, *beau trawl*
 Dredging instrument used,
 Direction of drift, *E.*; distance, *150 yds*
 Temperature of air, *42°* Fahr. therm. No.,
 " of surface water, *3.6* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.58*
 State of sky, *Cloudy*
 Direction of wind *N. W.*; force, *6*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 37° 36'
Long. 76° 27'

1273

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2018*Date, *Jan 18/14*Time of day, *7¹⁹ - 7¹⁵*; of tide, *1/4 Flood*Locality, *Off Tangier light*Exact position, *1/2 m S of Tangier light.*Depth, *12-5*

Nature of bottom,

Dredging instrument used, *Beam trawl*

Direction of drift,

; distance,

Temperature of air, *37°*

Fahr. therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface,

temp.,

Celsius.

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, *30.19*State of sky, *Overcast*Direction of wind *N. E.*; force, *6*

Rain,

Direction of surface current,

; force,

" of bottom "

; force,

Name and position of observer,

11-1068

Lat. 37° 47'
Long. 75° 58'

#1273

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2019*

Date, *Jan 12/11*

Time of day, *7⁴⁰ - 7⁵³*; of tide,

Locality, *Off. Tangier Light*

Exact position, *1/2 mile East Tangier Sound Light.*

Depth, *13 1/2 f*

Nature of bottom, *S. Beaumont*

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, *37°* Fahr. therm. No.,

“ of surface water, “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, temp., Celsius.

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *30.19*

State of sky, *Overcast*

Direction of wind *N. H.*; force, *6*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

11-1068

Lat 37° 47' 18"
Long. 75° 58'
1273

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *A020*Date, *Jan. 18/14*Time of day *3⁰⁰ - 4⁰²*; of tide, *Flood*Locality, *Saugier Is.*Exact position, *1 3/4 mi N. N. E. 3/4 E*
*Saugier sd light.*Depth, *15-9-2-19*

Nature of bottom,

Dredging instrument used, *Beam trawl*Direction of drift, *S 1/2 N.*; distance, *1 3/4 mi.*Temperature of air, *37°* Fahr. therm. No.," of surface water, *1.9* "" at depth of *9* fathoms, *2.5* "" at bottom, *17* " *2.8* "

Density at surface, temp., Celsius.

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky, *overcast*Direction of wind *N. W.*; force, *5*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11-1068

Lat 37° 48' 30"
Long. 75° 56' 42"

#1773

RECORD OF DREDGING TEMPERATURE AND DENSITY

Station No. *St 21*

Date, *Jan 19/14*

Time of day, *10¹⁷-10³⁵*, of tide, *High*

Locality, *Off Smith Point*

Exact position, *Smith Pt. N x S. Gr.*
Dec. Dir. N x S 1/2 E.

Depth, *27 1/2 - 24 - 26 - 17 -*

Nature of bottom, *Bl. M. + Sand*

Dredging instrument used, *Beam trawl*

Direction of drift, *N.*; distance, *2 miles*

Temperature of air, *39* Fahr. therm. No.,

“ of surface water, *3.1* “

“ at depth of *25* fathoms, *3.4* “

“ at bottom, *10 2.85 -* “
15 3.

Density at surface, temp., Celsius.

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *30.11*

State of sky, *Clear*

Direction of wind, *N.*; force, *4*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

11-1068

Lat. 37° 50' 06"
Long. 76° 10' 10"

1223

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *822*
 Date, *11/9/14*
 Time of day, *7³⁰-7⁴⁷*; of tide, *Spring*
 Locality, *Off. Smith Pt.*
 Exact position, *NE 1/2 N 1 1/2 mile*
Smith Pt.
 Depth, *16-16 1/2-16-14 1/2-11 1/2*
 Nature of bottom, *bk. mud*
 Dredging instrument used, *Beam trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *45* Fahr. therm. No., _____
 " of surface water, *3.7e* "
 " at depth of *10* fathoms, *3. e* "
 " at bottom, *3.3e* "
 Density at surface, _____ temp., _____ Celsius.
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Number of salinometer, _____
 Barometer reading, *30.09*
 State of sky, *Overcast*
 Direction of wind _____; force, *4*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name and position of observer, _____

11-1068

Lat 37° 54'
Long 76° 10'

#1224

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2073*
 Date, *1/9/14*
 Time of day, *10¹⁵* ; of tide, *1/4 Ebb.*
 Locality, *Stomae River*
 Exact position, *Mouth Stomae S. 1/2 W.*

 Depth, *10 - 17 1/2 - 14*
 Nature of bottom,
 Dredging instrument used, *Beam trawl*
 Direction of drift, ; distance,
 Temperature of air, *45*. Fahr. therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.93*
 State of sky, *Cloudy*
 Direction of wind ; force, *4*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 37° 54'
Long. 76° 09' 36"
1224

RECORD OF DREDGING TEMPERATURE AND DENSITY

Station No. *874*
 Date, *Jan 19/14*
 Time of day, *7:38 - 2:52*; of tide, *1/2 Ebb.*
 Locality, *Off Pointe La Pointe*
 Exact position, *4 mi SE 1/4 E Pointe*
no Point.

Depth, *18 1/2 - 76 1/2 - 7*
 Nature of bottom,
 Dredging instrument used, *Beau trail*
 Direction of drift, ; distance,
 Temperature of air, *49°* Fahr. therm. No.,
 " of surface water, *9.52* "
 " at depth of fathoms, "
 " at bottom, "

Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "

Number of salinometer,
 Barometer reading, *29.91*
 State of sky, *Partly clear*
 Direction of wind *S.W.*; force, *2*

Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 38° 06' 12"
Long 76° 12' 12"
#1224

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2024A*
 Date, *11/9/19*
 Time of day, *3:18 P.M.*; of tide, *1/2 Ebb*
 Locality, *Pacific Lockout*
 Exact position, *C³/4 Pacific no*
Pacific.
 Depth, *19-*
 Nature of bottom, *dk blue mud*
 Dredging instrument used,
 Direction of drift, ; distance,
 Temperature of air, *48* Fahr. therm. No.,
 " of surface water, *33.5* "
 " at depth of *10* fathoms, *32.8* "
 " at bottom, *16 3.5-* "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.90*
 State of sky, *Partly clear*
 Direction of wind *S.*; force, *✓*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 38° 07' 47"
Long 76° 13' 47"
#1774

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *5025*
 Date, *June 20, 1914*
 Time of day, *9:42 - 10:00*; of tide, *Ebb*
 Locality, *Hooper's Island*
 Exact position, *S 1/2 E - 2 1/2 miles off Hooper's light*
 Depth, *13-21-25-15-14 3/4*
 Nature of bottom, *Very hard, sandy*
 Dredging instrument used, *Claw trawl*
 Direction of drift, *no*; distance,
 Temperature of air, *40°* Fahr. therm. No.,
 " of surface water, *3.2* "
 15 3.5
 " at depth of *21* fathoms, *3.6* "
 10 3.2
 " at bottom, *5 - 7.65 C* "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.66*
 State of sky, *cloudy, heavy mist*
 Direction of wind *South*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 36°⁽²⁾ 13'
Long 76° 14' 24"
#1224

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No.

2026

Date,

Jan. 20/14

Time of day, 11. 19 - 11. 40 of tide,

Ebb

Locality,

Hooper's Lt.

Exact position,

3/4 mi S. W. Hooper's Lt.

Depth,

23 - 21 1/2 - 22 - 22 - 21 - 20 - 11 1/2

Nature of bottom,

Blau trawl

Dredging instrument used,

Blue mud

Direction of drift,

; distance,

Temperature of air,

45°

Fahr. therm. No.,

" of surface water,

3.4

"

" at depth of 10 fathoms,

3.2

"

" at bottom,

21 3.6

"

5 2.6

Density at surface,

temp.,

Celsius.

" at depth of fathoms,

"

" at bottom,

"

Number of salinometer,

Barometer reading,

29.66

State of sky,

Overcast, Stazy

Direction of wind

S.W.; force, 2

Rain,

Direction of surface current,

; force,

" of bottom "

; force,

Name and position of observer,

11-1068

Lat. 38° 14' 42"

Long. 76° 15' 30"

1724

RECORD OF DREDGING TEMPERATURE AND DENSITY

Station No. *5077*

Date, *Jan. 20/14*

Time of day, *1⁰⁵ - 1³⁶*, of tide, *ebb*

Locality, *Off. Barren Island*

Exact position, *1/4 mile N.W. of Spar*
Key #160

Depth, *29 - 19 1/2 - 18 - 17 1/2 - 15 - 13*

Nature of bottom, *St. mud*

Dredging instrument used, *Beam trawl*

Direction of drift, *N.W.*; distance,

Temperature of air, *42* Fahr. therm. No.,

“ of surface water, *3.4* “

“ at depth of *10* fathoms, *2.9* “

“ at bottom, *27* “ *3.55* “

“ “ *5* “ *3.63* “

Density at surface, temp., Celsius.

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *29.60*

State of sky, *Overcast*

Direction of wind *SE.*; force, *2*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

11-1068

Lat. 38° 20' 18"
Long 76° 18'

1724

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *5028*
 Date, *Jan. 20. 1914*
 Time of day, *7.05 - 7.20*; of tide, *ebb*
 Locality, *off Barren Island*
 Exact position, *1/2 E. Spar buoy*
#16
 Depth, *22-22-21-20*
 Nature of bottom,
 Dredging instrument used, *seaw trawl*
 Direction of drift, *N. W.*; distance,
 Temperature of air, *42* Fahr. therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *29.59*
 State of sky, *Overcast*
 Direction of wind *SE.*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 38° 22'
Long. 76° 19' 18"

1724

RECORD OF DREDGING TEMPERATURE AND DENSITY

Station No. *5079*
 Date, *Jan. 20 - 114*
 Time of day, *3⁰⁰ - 3²²*, of tide, *Ebb.*
 Locality, *Cory Pt. Light.*
 Exact position, *Cory Pt. Light about*
2 miles

Depth, *19-19-16-17-17-15 1/2*
 Nature of bottom, *Black mud*
 Dredging instrument used, *Beau-trawl*
 Direction of drift, *N. W.* ; distance,
 Temperature of air, *44⁰* Fahr. therm. No.,
 " of surface water, *3.5* "
 " at depth of *5* fathoms *2.6* "
 " at bottom, *1.8 - 3.7* "

Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "

Number of salinometer,
 Barometer reading, *29.56*
 State of sky, *overcast*
 Direction of wind *SE* ; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 38° 22'
Long 76° 20' 18"

H 1795

RECORD OF DREDGING TEMPERATURE AND DENSITY

Station No. *2030*

Date, *Jan. 20 / 12*

Time of day, *4¹² - 4³⁰*; of tide, *Ebb.*

Locality, *Caro. Pacific.*

Exact position, *Caro. P. Lt S 1/2 W.*
Dist. 4 1/2 miles.

Depth, *15 - 15 1/2 - 14 1/2 - 14 - 14*

Nature of bottom,

Dredging instrument used, *Beam trawl*

Direction of drift, *N. W.*; distance,

Temperature of air, *46* Fahr. therm. No.,

“ of surface water, “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, temp., Celsius.

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *29.54*

State of sky, *Overcast.*

Direction of wind *SE.*; force, *2*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

11-1068

Lat. 30° 29' 36"
Long. 76° 23' 17"
1475-

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *5031*
 Date, *Jan. 21st / 14*
 Time of day, *11.5 - 1.19*; of tide, *Flood*
 Locality, *Sharps Is.*
 Exact position, *Sharps Is. Lt. N 1/4 E*
Gas survey # 18 N. S. 3/8 W.
 Depth, *16 3/4 - 13 1/2 - 7 1/2 - 6 1/2*
 Nature of bottom, *sd. mud*
 Dredging instrument used, *Beam trawl*
 Direction of drift, *East*; distance,
 Temperature of air, *44* Fahr. therm. No.,
 " of surface water, *3.7* "
 " at depth of *10* fathoms, *3.7* "
 " at bottom, *✓* *7.3* "

Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "

Number of salinometer,
 Barometer reading, *29.40*
 State of sky, *Overcast.*
 Direction of wind *N. W.*; force, *1*
 Rain,

Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 30° 32' 18"
Long. 76° 23' 36"

1725

RECORD OF DREDGING TEMPERATURE AND DENSITY

Station No. *2037*
 Date, *Jan. 21/14*
 Time of day, *9⁵⁰ 10¹⁰*; of tide, *1/4 Ebb.*
 Locality, *Sharp Island*
 Exact position, *Sharp Is. N E 3/4 E*
Gas buoy 3/4 S.
 Depth, *18-17-17-14-17-12*
 Nature of bottom, *S. mud*
 Dredging instrument used, *Beam trawl*
 Direction of drift, *SE.*; distance,
 Temperature of air, *44* Fahr. therm. No.,

" of surface water, *3.* "
 " at depth of *16* fathoms, *3. 2.* "
 " at bottom, *5. 2. 2* "

Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "

Number of salinometer,
 Barometer reading, *29.42*
 State of sky, *Cloudy*
 Direction of wind *N. W.*; force, *4*

Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 38° 36' 30"

Long 76° 25' 12"

H 1225

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *A 33*
 Date, *Jan. 21 / 17*
 Time of day, *11⁴⁷ 11⁰³*; of tide, *Ebb*
 Locality, *Tulhannan Island*
 Exact position, *Bay #1 C 1/8 N.*
Sharp Is. Lt. S.E. 3/8 S.
 Depth, *11-18 1/2-19-14 3/4-12*
 Nature of bottom,
 Dredging instrument used, *Beau trail*
 Direction of drift, *SE*; distance,
 Temperature of air, *42* Fahr. therm. No.,

" of surface water, *3.9* "
 " at depth of *5* fathoms, *2.15* "
 " at bottom, *15-20* *3.2* "
4.

Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "

Number of salinometer,
 Barometer reading, *29.42*
 State of sky, *Partly clear*
 Direction of wind *N. W.*; force, *1*

Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat 38° 40' 36"
Long. 76° 45' 30"
1725

RECORD OF DREDGING TEMPERATURE AND DENSITY

Station No. *8034*
 Date, *Jan. 21/14*
 Time of day, *11¹³ 1²⁵*; of tide, *1/2 Ebb*
 Locality, *Poplar Island*
 Exact position, *Bury N 20 NE 1/8 N*
Wasperville N. N. E 1/8 E
 Depth, *21-21-15-10*
 Nature of bottom, *Blau sand*
 Dredging instrument used,
 Direction of drift, *SE*; distance,
 Temperature of air, *46°* Fahr. therm. No.,

" of surface water, "
 " at depth of fathoms, "
 " at bottom, "

Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "

Number of salinometer,
 Barometer reading, *29.42*
 State of sky, *Overcast*
 Direction of wind *N. W.*; force, *8-10*

Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 38° 45' 12"
Long. 76° 25' 30"
H 1225

RECORD OF DREDGING
TEMPERATURE AND DENSITY

Station No. *2035*

Date, *Jan 22/14*

Time of day, *9:15*; of tide, *Ebb.*

Locality, *Eastern Bay*

Exact position, *Shoody Pt. Lt. NE.*
Thomas Pt. Lt. N 3/4 W.

Depth, *26-29-16-10-7-4-4 3/4*

Nature of bottom, *Hard sand*

Dredging instrument used, *Beaman trawl*

Direction of drift, *Southeast*; distance,

Temperature of air, *37.0* Fahr. therm. No.,

“ of surface water, *70* “

“ at depth of *5* fathoms, *7.3* “

“ at depth of *10* fathoms, *3.45* “

“ at bottom, *15* *3.7* “
25 *3.9* “

Density at surface, temp., Celsius.

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *29.98*

State of sky, *Hazy*

Direction of wind *N. W.*; force, *2*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

11-1068

Lat. 38° 48' 42"
Long 76° 24' 24"

#1225

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *5036*

Date, *Jan. 22nd/14*

Time of day, *9⁴⁵ - 10¹⁵*; of tide, *Ebb.*

Locality, *Eastern Bay*

Exact position, *Body of L. S. E. Thomas I. N. N. W. 1/4 W.*

Depth, *17-18 1/2-18-19-20 1/2-22 1/2-22 1/2*

Nature of bottom,

Dredging instrument used, *Beam trawl*

Direction of drift, *S. E.*; distance,

Temperature of air, *34* Fahr. therm. No.,

“ of surface water, “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, temp., Celsius.

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *30.00*

State of sky, *Hazy*

Direction of wind *N. N. W.*; force, *2*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

24 1/2 - 29 1/2 - 30

11-1068

Lat. 38° 51' 36"

Long. 76° 24' 12"

#1725

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2037*Date, *Jan. 27/14*Time of day, *11:30* ; of tide, *Flood*Locality, *Severn River*Exact position, *Between traps*# *70 B. and 70 C.*Depth, *22-26-19 1/2-19 3/4-20-21-23-22*

Nature of bottom,

Dredging instrument used, *Beau-trawl*Direction of drift, *none* ; distance,Temperature of air, *30*, Fahr. therm. No.," of surface water, *1.6* "" at depth of *5* fathoms, *2.2* "" at bottom, *15* *3.6* *20* *3.7* "

Density at surface, temp., Celsius.

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.0 f*State of sky, *Hazy*Direction of wind *N. W.* ; force, *3*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name and position of observer,

11-1068

Lat. 38° 55' 12"
Long 76° 23' 15"

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2038*
 Date, *2/17/14*
 Time of day, *9:30* - *10:13*; of tide, *Flood*
 Locality, *Severn River*
 Exact position, *between buoy*
20B + 20C
 Depth, *16-13-10 1/2-10 1/4-9 3/4-6 3/4-9 3/4-6 3/4*
 Nature of bottom, *7-P 3/4-4 1/2-19-25*
 Dredging instrument used, *muddy beam trawl*
 Direction of drift, *S. W.*; distance, *1 mile*
 Temperature of air, *4. C* Fahr. therm. No.,
 " of surface water, *4 C* "
 " at depth of *5-4 C* fathoms, *4 C* "
 " at bottom, *10-3.9 C* "
20-4.1
 Density at surface, *25-* temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer,
 Barometer reading, *30.15*
 State of sky, *Partly Clear*
 Direction of wind *S. W.*; force, *5-*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name and position of observer,
 11-1068 *Lat. 38° 56' 15"*
Long. 76° 13' 20"
#1225

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *5039*

Date, *2/17/14*

Time of day, *11²⁷-11³⁵*; of tide, *Flood*

Locality, *Brody Pt.*

Exact position, *Brody Pt. Lt. N¹/₈E*
Thomas Pt. Lt. W⁵/₈N

Depth, *18-18-16-13¹/₂-9¹/₂-11¹/₂-12¹/₄-14¹/₄*

Nature of bottom, *43¹/₄-16-16-17¹/₂-18-18¹/₂-16³/₄-22-25-27*

Dredging instrument used, *Scaum trawl*

Direction of drift, *of drift S. W.*; distance, *1¹/₂ mi.*

Temperature of air, *30* Fahr. therm. No.,

“ of surface water, “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, temp., Celsius.

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *30.14*

State of sky, *Hazy*

Direction of wind *S. W.*; force, *4*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

11-1068

Lat. 38° 54' 11" N
Long. 76° 43' 42" W

#1225

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *5040*
 Date, *2/17/14*
 Time of day, *1²⁵ - 1⁵⁰*; of tide, *Flood*
 Locality, *Spellar Island*
 Exact position, *St. J. E 1/2 E*
Thomas St. North

Depth, *17 1/2 - 18 3/4 - 19 - 17 - 14 1/2 - 13 1/4*
 Nature of bottom,
 Dredging instrument used, *Beaumont*
 Direction of drift, *Drift SxW*; distance, *3/4 mile*

Temperature of air, *10* Fahr. therm. No.,
 " of surface water, *5* C
 " at depth of *10* fathoms, *4.3* C
 " at bottom, *14* *4.5* C

Density at surface, temp., Celsius.
 " at depth of fathoms, "
 " at bottom, "

Number of salinometer,
 Barometer reading, *30.14*
 State of sky, *Overcast.*
 Direction of wind *S. W.*; force, *4*

Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,

Name and position of observer,

11-1068

Lat. 38° 46' 54"
Long 76° 25' 12"

1725-

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2041 ✓*

Date, *2/17/14*

Time of day, *3¹⁵ - 3³⁵*; of tide *Ebb.*

Locality, *Silkyuan Island*

Exact position, *Star #1 E 3/4 S.*
Bell #A N 1/8 E

Depth, *17 1/2 - 18 - 18 3/4 - 20 - 21*

Nature of bottom, *mud*

Dredging instrument used, *Beaumont*

Direction of drift, _____; distance, _____

Temperature of air, *3 C* *S 3/4 E* Fahr. therm. No., _____

“ of surface water, *76.5* “

“ at depth of *10* fathoms, *43* “

“ at bottom, *15 4.55*
20 - 4.6 “

Density at surface, _____ temp., _____ Celsius.

“ at depth of _____ fathoms, _____

“ at bottom, _____

Number of salinometer, _____

Barometer reading, *30.10*

State of sky, *Partly clear*

Direction of wind *S. W.*; force, *5*

Rain, _____

Direction of surface current, _____; force, _____

“ of bottom “ _____; force, _____

Name and position of observer, _____

11-1068

Lat. 38° 41'
Long. 76° 25' 30"

1225

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *8042 ✓*

Date, *2/17/14*

Time of day, *4:35* *4:50*; of tide, *Ebb.*

Locality, *Sharp's Island*

Exact position, *Dump #18 SSE 1/4 E*
Bele 18A S 5/8 W

Depth, *15 3/4 - 13 - 13 1/2 - 14 1/2*

Nature of bottom, *Hard sand*

Dredging instrument used, *Beaumont*

Direction of drift, *dredging S 1/4 W* distance, *1/2 mile*

Temperature of air, *9.5 C* Fahr. therm. No.,

“ of surface water, “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, temp., Celsius.

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *30.00*

State of sky, *Partly Clear*

Direction of wind, *N.*; force, *1*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

11-1068

Lat. 38° 37' 30"
Long 76° 25' 12"
#1725-

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2045 ✓*Date, *2/18/14*Time of day, *12⁵⁰ 1⁰⁷*; of tide, *Ebb*Locality, *Alcove Barren Island*Exact position, *Green pt. Lt. 3/4 N.
Core Pt. Lt. 2 1/4 N. 3/8 W.*Depth, *18 - 18 1/2 - 18*

Nature of bottom,

Dredging instrument used, *30' Alter trawl
dredge*Direction of drift, *N x W.*; distance,Temperature of air, *45c* Fahr. therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp., Celsius.

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.02*State of sky, *Partly Clear*

Direction of wind; force,

Rain,

Direction of surface current; force,

" of bottom " ; force,

Name and position of observer,

11-1068

Lat. 38° 27' 30"
Long. 76° 20"
#1225-

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2046* ✓

Date, *2/18/14*

Time of day, *1¹² 1²⁰* ; of tide, *ebb*

Locality, *Cove Pt.*

Exact position, *Cove pt. 2 1/2 S. from
pt. S. 2 1/2 W.*

Depth, *18-17-17-17*

Nature of bottom,

Dredging instrument used, *30' Otter trawl
dredge*

Direction of drift, *S x E*; distance,

Temperature of air, *7.25* Fahr. therm. No.,

“ of surface water, “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, temp., Celsius.

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading, *30.02*

State of sky, *Partly Clear.*

Direction of wind *SE*; force, *1*

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name and position of observer,

11-1068

Lat. 38° 13' 20"
Long. 76° 20'

#1225-

RECORD OF DREDGING

TEMPERATURE AND DENSITY

Station No. *2047*Date, *2/18/14*Time of day, *1:45-2:02*; of tide, *ebb*Locality, *Core Pt*Exact position, *Spawt m. S.S. R. 1/4 W.*Depth, *7-6 3/4-7 1/2-7 3/4-7 1/2*

Nature of bottom,

Dredging instrument used, *Beaumont*Direction of drift, *drift*

; distance,

Temperature of air, *9. C*

Fahr. therm. No.,

"

of surface water, *1. 8. C*

"

at depth of $\sqrt{5}$ fathoms, *1. 3. C*

"

at bottom, *7*; *1. 4. C*

Density at surface,

temp.,

Celsius.

"

at depth of fathoms,

"

"

at bottom,

"

Number of salinometer,

Barometer reading, *30.02*State of sky, *Partly Clear*Direction of wind *SE*; force, *1*

Rain,

Direction of surface current,

; force,

"

of bottom

"

; force,

Name and position of observer,

11-1068

Lat. 38° 22' 30"
Long. 76° 20' 24"

#1725-