

83
SHA
3369
1912

3369

Drag. Cht. No. 78-2

C. & G. SURVEY,
LIBRARY AND ARCHIVES
JUL 10 1912

Sec. No.

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Iva*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3369*

LOCALITY:

*Mattaponi River - West Point
to Sandy Point*

1912

CHIEF OF PARTY:

O. H. Ferguson

11-4645

3369

~~3254~~ 3369
DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETIC SURVEY.

O.H. Tittmann, Superintendent.

C. & G. SURVEY,
LIBRARY AND ARCHIVES
JUL 10 1912
Acc. No

Survey of the Mattaponi River, Virginia.

TITLE SHEET

For Hydrographic Sheet D.

Extending from Chain Ferry near Westpoint Va. to a mile
above Sandy Point Va.

between

Latitude $37^{\circ} 32'$ and $37^{\circ} 43'$

Longitude $76^{\circ} 46'$ and $76^{\circ} 57'$

Scale, 1/20,000.

From Feb. 27, to April, 13. 1912.

SCHOONER "MATCHLESS".

O.W. FERGUSON, Assistant, C.&G.S. In command.

OBSERVERS.

O.W. FERGUSON, Assistant; James E. Marsh, Mate.

Forrest F. Harbour, and Frank S. Borden, Aids.

DEPARTMENT OF COMMERCE AND LABOR.
COAST AND GEODETIC SURVEY.
O. H. TITTMANN, Superintendent.

C. & G. SURVEY,
LIBRARY AND ARCHIVES
JUL 1912
Acc. No.

Survey of the Mattaponi River, Virginia.

DESCRIPTIVE REPORT.

For Hydrographic Sheet D.

Extending from Chain Ferry near Westpoint Va. to one mile above
Sandy Point Va.

Latitude 37° 32' and 37° 43'

Longitude 76 46' and 76° 57'

Scale, 1/20,000.

From Feb. 27, to April, 13, 1912.

SCHOONER "MATCHLESS".

O.W.FERGUSON, Assistant; C.&G.S. in command.

OBSERVERS.

O.W.FERGUSON, Assistant; James E. Marsh, Mate.

Forrest F. Harbour, Frank S. Borden, Aids.

RECORDERS.

H.W.Godsey, C.W., J.H.Dukes, W. 2nd. Cl.

LEADSMEN.

R.Myrdal., H.C.Tong., and S.Bristow.
COXSWAIN.

R.Myrdal., H.C.Tong., and S.Bristow.

TIDE OBSERVERS.

M.L.Tabor, F.Franke and S.Bristow.

Hydrographic Sheet D. Mattaponi River.

This is the first sheet of the Mattaponi River above Westpoint and extends to a mile above Sandy Point Landing, a distance of 21 1/2 miles. It has never been charted before. It is from 200 to 500 meters wide, winds from side to side up a low bed from 800 to 1700 meters wide. It has pronounced tides and 14 ft. depth for navigation. The greatest depth found is 42 ft. Up or down this river every day goes the steamer of the Virginia Navigation Company, plying between Westpoint, Walkerton and Aylett tri-weekly.

Evidently, ~~not~~ at one time, this river occupied the whole width of this low marshy bottom as it does now at times of flood and a very high tide, but this original width has been greatly encroached upon by the sediment carried into the stream and deposited where the current was the slackest, so that now we find upon one side or the other a quite extensive marsh, with its surface about at high water elevations and covered by a growth of wild grass.

SHORES.

The shores are about two thirds marshy, and generally quite flat so that landing at low water is difficult.

WATER.

The brackish water rarely if ever reaches to Melrose 12 1/2 miles above Westpoint, but tugs use this water for their boilers for several miles below this.

Artesian water is obtained all along, there being an especially large flow at Fraziers Ferry.

CURRENTS.

The tides are quite marked, increasing all along as far as we ascend the river.

LANDINGS.

	Dist. from Westpoint.		Dist. from Westpoint
Chain Ferry	1.6 miles	Foxes Landing	12.5 miles.
Dixons Landing	5.0 "	Melrose "	13.8 "
Rye Field " x	5.3 "	Courthouse "	16.0 "
Water Fence "	5.7 "	Fraziers Ferry "	17.0 "
Chelsea "	7.5 "	Indian Town " 18.3	18.3 "
Clifton "	8.6 "	Mantapike "	21.2 "
Kentucky Farm "	11.3 "	Sandy Point "	22.0 "

NAVIGATION.

Fourteen feet can be carried at low water over this sheet by keeping near the middle of the river, excepting at from 1000 m. ~~so~~ above Court House Landing to 1800 m. above is a small middle ground with over 14 feet on the Frazier Ferry side, and 11 feet on the opposite side.

There is also a middle ground called the "Pocket" from 400 m above Sandy Point to 1200 m. above, with channel found on the Mantapike side,. When two islands above Sandy Point come ~~in sight~~ on range, starboard across steering for Wood Landing.

Some middle ground buoys, marking these bars would be of great benefit.

CRAFT.

Besides the line of ~~the~~ steamers, many tug boats, schooners, barges, flat boats, and small power boats navigate this river.

SHIPPING.

The steamers ship the supplies to the people, and perishable products as garden truck to market, but the principal product shipped is sawed lumber ties, and piles handled by the other craft.

3
4

Survey of the Mattaponi River.

GEOGRAPHIC POSITIONS

For Hydrographic Sheet #4, -D.

	°	'	m	°	'	m
EAST Δ	37	33	250.2	76	46	655.4
PONY Δ	37	33	253.7	76	47	88.5
Center shed on beach- "shed"	37	33	1270.0	76	46	1070.0
Lone chymney "Lone"	37	33	1270.0	76	46	940.0
Ice	37	33	1013.0	76	46	1463.0
Center of big house, "red"	37	33	285.0	76	46	1220.0
NEAR Δ	37	34	661.1	76	47	676.6
FATHOM Δ	37	34	207.9	76	47	1124.0
Lone chy. "Blonde"	37	34	740.0	76	47	560.0
Very large house, "Pine"	37	34	1820.0	76	47	745.0
Wharf "War"	37	35	630.0	76	47	850.0
White House "White"	37	35	1150.0	76	47	1160.0
Extra	37	35	1020.0	76	48	70.0
House "Yes"	37	35	1290.0	76	48	40.0
House "No"	37	35	1475.0	76	48	335.0
PLEASANT Δ	37	35	453.7	76	48	1088.6
HILL Δ	37	35	1110.5	76	48	565.6
It	37	35	920.0	76	49	330.0
White House "Air"	37	35	890.0	76	49	785.0
Barn Cupola "Cup"	37	35	1150.0	76	49	1000.0
She	37	35	1265.0	76	49	810.0
House "big"	37	35	1703.0	76	49	940.0
ROY Δ	37	36	26.8	76	49	1006.3
CLIFTON Δ	37	36	792.2	76	49	460.1
Put	37	36	340.0	76	48	1390.0
Shed on wharf "How"	37	36	600.0	76	49	000.0
Boo	37	36	100.0 562.0	76	49	1324.0

GEOGRAPHIC POSITIONS - Continued.

Dow	37	36	785.0	76	49	1375.0
BOARD A	37	36	1518.6	76	50	197.0
NEW A	37	36	1219.4	76	50	585.5
Dead pine "Snag"	37	36	1072.0	76	50	874.0
Outer tree	37	36	1445.0	76	50	1320.0
KEN A	37	36	1556.1	76	51	128.1
TUCK A	37	37	192.1	76	50	1119.2
Gen. house "High"	37	37	163.0	76	50	550.0
Large Pine	37	37	150.0	76	50	915.0
FOX A	37	37	34.9	76	51	1103.9
MEL A	37	37	965.0	76	51	393.8
House "Far"	37	36	1355.0	76	51	510.0
"Chute"	37	36	1630.0	76	51	1030.0
Knee	37	37	205.0	76	52	325.0
Fare	37	37	862.0	76	51	1140.0
Old shed	37	37	760.0	76	52	380.0
House 2nd "Dor"	37	37	954.0	76	52	270.0
MARSH A	37	38	563.4	76	52	180.0
Outer pine "Dark"	37	37	1221.0	76	51	391.0
ROSE A	37	38	1006.3	76	51	937.6
Pile	37	38	70.0	76	51	525.0
Pill	37	38	424.0	76	51	460.0
REACH A	37	38	1369.3	76	51	1320.8
x Up river chy.	37	38	620.0	76	51	421.0
House "Gen."	37	39	170.0	76	51	258.0
ISLE A	37	38	1224.3	76	52	198.1
Black tree "Black"	37	38	1740.0	76	52	630.0
BRUSH A	37	39	254.1	76	52	957.8
Small COURT A	37	39	412.8	76	52	738.1

GEOGRAPHIC POSITIONS - Continued.

Top	37	39	696.0	76	52	1211.0
NEXT Δ	37	39	629.1	76	53	59.3
Gable shed "Gab"	37	39	830.0	76	52	1150.0
LANDING Δ	37	39	1003.1	76	53	201.2
Outer pile	37	39	855.0	76	52	1230.0
FRAZIER Δ	37	39	339.7	76	53	1297.5
HUB Δ	37	39	1075.8	76	53	1272.6
"Rec"	37	39	612.0	76	53	370.0
Big chy.	37	39	1035.0	76	53	225.0
Chy. Ho.	37	39	1020.0	76	53	1050.0
OAK Δ	37	39	415.0	76	54	772.5
Ferry pole "Pole"	37	39	830.0	76	53	1070.0
MAJOR Δ	37	39	888.1	76	54	1388.9
x Fore mast	37	39	383.0	76	53	1390.0
Up river chy. "Eve"	37	39	340.0	76	54	320.0
INDIAN Δ	37	40	17.3	76	54	1134.4
Tom	37	39	530.0	76	54	477.0
All	37	39	910.0	76	54	1140.0
CEDAR Δ	37	40	596.3	76	54	393.8
LOW Δ	37	41	247.1	76	54	1215.2
Up chy. "Coon"	37	40	142.0	76	54	440.0
Gum	37	40	530.0	76	54	670.0
RUN Δ	37	41	197.1	76	55	69.6
Small	37	40	1020.0	76	54	1000.0 ^{454.0}
Round pine	37	40	920.0	76	55	40.0
OPEN Δ	37	41	953.0	76	55	48.9
Old snag "Dub"	37	40	983.0	76	55	10.0

~~3254~~ 3369

C. & G. SURVEY,
 LIBRARY AND ARCHIVES
 JUL 10 1912
 Rec. No.

STATISTICS SHEET D.

DATE	1912	Letter	Vol.	Positions	Soundings	Miles Statute	Vessels.
February	27	a	1	89	654	18.25	Launch
"	28	b	1	61	362	6.30	"
"	27	a	1	41	196	3.60	Whaleboat
"	28	b	1	50	273	5.50	"
March	7	c	1	25	138	4.00	Launch
"	27	d	1	31	207	6.25	"
"	28	e	1	37	261	7.50	"
"	27	c	1	102	518	12.00	Whaleboat
"	28	d	1	40	295	6.50	"
April	9	e	1	49	298	6.00	"
"	10	f	2	95	521	10.30	"
"	11	g	2	23	146	2.50	"
"	13	h	2	12	76	1.25	"
"	8	f	2	31	231	5.75	Launch
"	10	g	2	08	60	1.00	"
Total		11	2	694	4176	96.70	

VEC
July 12, 1912.

HYDROGRAPHIC SHEET 3369.

Mattaponi River, Virginia, by Asst. O. W.
Ferguson in 1912.

TIDES.

	West Point ft.	Wakema ft.
Mean low water, or plane of reference on staff	2.5	2.6
Lowest tide observed " "	0.6	1.8
Highest " " " "	7.4	6.8
Mean range of tide	2.9	3.4

Coast and Geodetic Survey

JUL 13 1912

TIDAL DIVISION

Hyd Sheet No 3369

The ground on these sheets, is thoroughly covered, the control excellent and the crossings very good. Angles were taken at frequent intervals on both the channel and cross lines.

It would have been much better, if both sheets had been plotted on a larger scale. By dividing the sheet into two halves, by a vertical line, the same area could have been shown. Developments might have been brought out, impossible on this scale and the crowding of soundings would have been eliminated.

These sheets are a wonderful improvement on some former surveys by the same party.

R. L. Johnston

Dec. 1912.