

4145

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Form 504  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: *North Carolina*

11-5613

DESCRIPTIVE REPORT.

*Hyd.* Sheet No. *4145*

LOCALITY:

*Neuse River*

*Adams Creek*

*1920*

CHIEF OF PARTY:

*J. H. Hawley*

HYDROGRAPHIC SHEET NO. 1.

Adams Creek, N.C.

Tide gauge on Cedar Creek Front range beacon.

Plane of reference; Mean sea level - 0.5 foot.

Gauge reading corresponding to plane of reference; 1.5'  
(from comparison with automatic gauge at Oriental, N.C.)

Highest tide observed	3.15' on gauge
Lowest tide observed	1.8' " "

For work at the entrance to the creek on "G" and "H"  
days tides scaled from the marigram of the automatic  
gauge at Oriental were used.

DESCRIPTIVE REPORT  
to accompany  
Hydrographic Sheet No. 1 (field number)

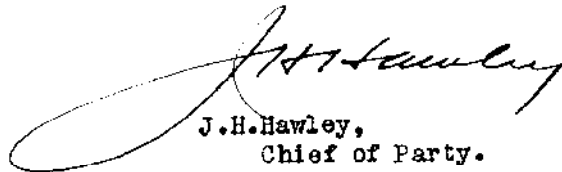
This sheet shows the hydrographic re-survey of Adams Creek, N.C. made in accordance with instructions dated January 23, 1920.

Cross line 300 meters apart, and three channel lines were run in addition to a few line into the principal creeks. The central channel line was run on the various ranges.

At the entrance to the creek the lines run on "B" day give depths from 0.5 to 1 foot less than cross lines on "E" day. The depths are also less than those shown on the present chart. On "B" day the work was done in a fresh southwest wind and the sea was very rough outside the 6-foot curve while on "E" day the sea was smooth. To verify the depths additional lines were run on "G" and "H" days when the weather conditions were excellent. These lines also show a generally greater depth than those run on "B" day. In plotting the soundings in pencil the shoaler depths obtained on "B" day were therefore dis-regarded to some extent.

On August 17, 1920 a few additional lines were run at the southern end of the creek and at that time it was observed that the Engineer Corps, U.S. Army had set stakes for further dredging operations between the north end of the canal and Isaac Creek.

In entering the creek from Neuse River the best water will be found by bringing the entrance beacon on range with the point abreast and to the eastward of Can buoy No. 1 (the point on which signal  $\Delta$  is located) and then heading to pass about 750 feet east of the beacon. When abreast of the beacon the course should be changed to pass 150 feet west of can buoy No. 1. This course should be held for a short distance past the can buoy and then gradually changed to the southward until on the range.



J.H. Hawley,  
Chief of Party.

ADAMS CREEK, NORTH CAROLINA.

STATISTICS.

Sheet No. 1

Date 1920.	Let.	Vol.	Posi- tion.	Sound- ings.	Miles Statute	Vessel.
Apr. 21	A	1	96	757	15.4	Launch #56
" 23	B	1	86	875	15.0	"
May 5	C	1	28	276	4.25	"
" 6	D	1-2	124	970	19.5	"
" 7	E	2	24	288	4.5	"
Aug. 17	F	2	19	50	1.0	"
Sept. 28	G	2	64	455	9.4	"
Oct. 31	H	2	36	170	5.5	Navy Launch
TOTAL -----			457	3841	74.55	

INDEX OF SIGNALS.  
 Hydrographic Sheet No. 1  
 Adams Creek, N.C.

Hydrographic Names

Neck	Triangulation Sta. Great Neck Point, 1866.
Ad	" " Adams, 1913
Al	" " Alpha, U.S.E.
Cam	" " Gamma, U.S.E.
Con	" " Adams Cr. Ent. Bn., 1920.
Dun	Front Range Bn. Topographic Sheet No. 1
Ear	Cedar Cr. Rear range Bn. " " " "
Jed	" " Front " " " " " "
Kab	Isaac Cr. beacon " " " "
Nal	North Ent. Canal Lt. " " " "

All signals named with one capital letter      Triangulation of U.S.E.D. and P.C. Whitney, 1913.

All other signals      From topographic sheet No. 1, 1920.

Black can buoy #1      Vol. 1, page 42 of sounding record.

DIRECTOR  
ADDRESS THE SUPERINTENDENT  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 41/VFB

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON January 25, 1921.



Division of Hydrography and Topography:

Division of Charts:

Tidal reductions are approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4145

Adams Creek, North Carolina.

J. H. Hawley in 1920.

Plane of reference is

Mean water level - 0.5 ft., reading = *Mean low water*

1.5 ft. on tide staff at Cedar Creek front range beacon.

2.9 ft. " " " " Oriental Harbor.

Condition of records; satisfactory.

A handwritten signature in cursive script, appearing to read "G. W. De...".

Chief, Division of Tides and Currents.

Hyd Sheet No 4145

The ground on this sheet seems to be sufficiently covered and most of the soundings cross very well.

A six and seven foot sounding on the line from pos. 8A to pos. 9A, appear suspicious as the channel lines show no indication of shoaling at this point.

Signal "Ab" was found to be incorrectly transferred from the Topo. sheet and lines dependent upon it were reprotracted.

The protracting and plotting of the sheet by the field party is very well done.

R. L. Johnston

The 6 & 7 foot soundings noted above are probably one fathom too shallow, but there is no proof of this fact and they are therefore retained.

E. G. Lewis

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

SECTION OF FIELD RECORDS.

REPORT ON HYDROGRAPHIC SHEET No. 4145.

SURVEYED in 1920.

Chief of Party: J. H. Hawley.                      Surveyed by J. H. Hawley and  
F. E. Okeson.

Protracted by W. F. Malnate and B. H. Rigg.

Soundings plotted by W. F. Malnate, B. H. Rigg and J. H. Hawley.

Verified and inked by R. L. Johnston.

1. The records conform to the requirements of the General Instructions except that boats' courses are frequently omitted, and beginnings and endings of sounding lines are not described.
2. The plan and extent of development fulfill the requirements of the General Instructions and satisfy the specific instructions.
3. The sounding line crossings are adequate, except a 6 and a 7 foot sounding on the edge of the dredged channel at the entrance to Cedar Creek. These soundings should probably be one fathom deeper, but in the absence of positive proof of this fact it is necessary to retain them, notwithstanding their encroachment on the dredged channel.
4. The junction with adjacent contemporary work is good.
5. Except in a few unimportant places the development is sufficient to permit all the curves to be drawn.
6. The field plotting was completed to the extent prescribed by the General Instructions. Signal "Ab" was found to be incorrectly transferred from the topographic sheet and sounding lines dependent on it had to be replotted.
7. No further surveying of this locality is required, except checking the 6 and 7 foot spots noted in paragraph 3 if opportunity offers.
8. The field work and field drafting are good.
9. Reviewed by E. P. Ellis, May, 1921 and two copies of this report to be sent to Hydrography and Topography Division.



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4145 Field Number 1.

State . . . North Carolina . . . . .

General locality . . . Neuse River . . . . .

Locality . . . . . Adams Creek . . . . .

Chief of party . . . J.H.Hawley . . . . .

Surveyed by J.H.Hawley, F.E.Okesson . . . . .

Date of survey April 22 to October 21, 1920. . . . . .

Scale . . . . . 1 : 10,000 . . . . .

Soundings in . . . Feet . . . . .

Plane of reference Mean sea level minus 0.5 foot . . . . .

Protracted by W.M., B.H.R. . Soundings in pencil by W.M., B.H.R., J.H.H.

Inked by . . . . . Verified by . . . . .

Records accompanying sheet (check those forwarded):

Des. report,  1 Tide books,  Marigrams,  1 Boat sheets,

2 Sounding books,  Wire-drag books,  Photographs.

Data from other sources affecting sheet . . . . .

Remarks: