

4228

Diag. Cht. No. 8802-2

4228

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
State <i>SE Alaska</i>	
11-5613	
DESCRIPTIVE REPORT.	
<i>W D</i>	Sheet No. <i>4228</i>
LOCALITY:	
<i>Princess Canal -</i>	
<i>Pt. Cowardin</i>	
<i>to Pt. Whidby</i>	
1922	
CHIEF OF PARTY:	
<i>J. H. Hawley</i>	

Note:- On "A" day the guide launch sweep line throws so far to the eastward at positions 35 and 37 that the possibility of a split is indicated. In the record book station Rear is recorded as the left object and the line is so plotted. On the boat sheet, however, station Earth is used as the left object which throws the line to the westward and gives an ample overlap. The facts that the signal at station Earth is larger and shows up much better than Rear, that the officer in charge, who was taking left angle at the time, plotted the positions on station Earth and that there was no reason why the line should jog to the eastward and then resume its original course all indicate that station Earth was actually used and that the entry of station Rear in the record was an error. This probable error is not corrected, however, for the reasons that the smooth plotting does not show a split and the use of Earth instead of Rear would only increase the overlap, while the existence of the error is not absolutely certain.

A handwritten signature in cursive script, appearing to be 'J. J. J.', located below the main text.

DESCRIPTIVE REPORT

to accompany Wire Drag Sheet 1.

Limits of work:

The work on this sheet adjoins drag work of 1917 on a line from Little Island to Δ Whid (1921) also on a line from Point Retreat north to Hump Island and Lincoln Island. All of the southern Part of Lynn Canal from the above mentioned line (from Little Island to Δ Whid) to Converden Point was done on this sheet.

Dangers and Changes from Charted Depths:

A reef just east of Point Whidby (Δ Foam) extends 340 meters in a southeasterly direction. The drag grounded on the point of this reef when covering a previous sweep ground. The ground however was at the n near buoy and the drag cleared without the end launch having stopped so that the point was covered without a split.

In the same way the ground south of Lynn Sisters Island was not on a detached shoal but in shallow water, sand bottom, making out from the island.

The sweep grounded on the reef north of Hump Island and cleared. This ground serves to show the limit of this reef.

The ground at 30 feet a later at 31 feet, 1100 meters slightly east of true north from Δ Hub (Naked Island) was not covered with the drag. A short distance (about 450 meters) south along the same shore a rock baring 6 feet was located by the topographic party.

The passage between the Kittens Islands and the main shore on the north side of the entrance to Funter Bay is used by small boats, but dragging of this passage was prevented by piles in the channel. The piles were probably driven to mark the channel.

The sweep grounded twice along the shore between Δ Doc and Δ List. These grounds were both covered with the drag. A least depth of 62 feet was found with the lead 1140 meters nearly true north from Δ Doc.

Survey Methods:

The same method as described in previous reports of covering the deep water with the sweep and the shoreline with the drag was followed with the exception that it was only necessary to use the drag north of Converden Point, in the vicinity of Funter Bay, and along the west shore from Lynn Sisters Island to Point Whidbey.

On "A" day alone the bulk of the area was covered with the sweep. Sixty-two square miles were covered on this day.

Work was done under instructions dated February 13, 1922.

Submitted by:

E. C. Jones
N. S. S. S.

Approved by:

J. H. Sawley
(see attached note)

Statistics for Sheet No. 1

Date	Letter	Vol.	Positions	Miles	Sndgs.
July 13	A	1	56	32.0	
14	B	1	34	13.5	
17	C	1	41	24.8	
18	D	1	21	10.0	
19	E	1	30.	12.5	
20	F	1	48	23.5	
21	G	1 & 2	40	8.0	
26	H	2	39	9.3	1
27	J	2	18	6.2	
28	K	2	45	12.1	1
August 8	L	2	7	1.5	13
10	M	2	25	5.4	

SUPPLEMENTARY

SOUNDINGS

July 29	A	1	45		45
---------	---	---	----	--	----

TIDAL DATA

Hydrographic (W.D.) Sheet No. 1

Automatic tide gauge installed in Funter Bay was used for the reduction of work on this sheet. Staff readings on days when work was done were scaled from the marigrams and recorded in a Tide Record.

Staff reading corresponding to M.L.L.W. 6.2

Data relative to highest and lowest tides observed should be supplied by office from marigrams and previous records at this station.

Verification of Wire Drag Sheet 4228.

The area included on this sheet was covered by the sweep and drag. The plotting was well executed and in only one case was an error found. However owing to the changed tide reducers practically all of the effective depths had to be changed and in many cases ~~the~~^{an} entire strip had to be completely changed for color. This delayed the work considerably. The records were well kept, but in frequent cases where part of the drag was taken up to clear a shoal, there was a failure to note by a subsequent note when the drag was again lowered.

In all such cases the smooth sheet was accepted as O.K. The overlaps were sufficient and no splits were found.

A. L. Shalwitz

803

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 4-DRM

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

March 17, 1923.

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4228

Surveyed in 1922.

Chief of Party, J. H. Hawley.

Surveyed by G. C. Jones. Instructions dated February 13, 1922.

Protracted and Inked by C. E. Christopherson.

Verified and Area and Depth sheet by A. L. Shalowitz.

1. The records were well kept, except as noted in the verification report.
2. The depth and extent of dragging satisfy the specific instructions.
3. The least water was found on all shoals discovered.
4. The supplemental hydrography is suitable for correcting the charts.
5. The overlaps are sufficient.
6. The area covered by this sheet, insofar as the main channel is concerned, can be considered as complete. When opportunity affords the area between Pt. Howard and Pt. Couverden should be dragged as well as St. James Bay.
7. (Character and scope of drag operations:
Rating of the work(excellent.
(Field drafting: excellent.
8. Reviewed by A. L. Shalowitz, March, 1923.

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. 1 4228

State . . . S.E. Alaska

General locality . . . Lynn Canal

Locality Pt. Couerden ~~Point Whidbey to Point Marsden~~

Chief of party . . . J.H. Hawley

Surveyed by . . . J.H. Hawley & G.C. Jones

Date of survey . . . July 13 to August 29, 1922

Scale 1:40,000

Soundings in Feet

Plane of reference . . . M. L. L. W.

Protracted by . . . C.E.C. . . . Soundings in pencil by C.E.C. . . .

Inked by . . . C.L.C. . . . Verified by

Records accompanying sheet (check those forwarded):

Des. report, 1 Tide books, 3 Marigrams, 1 Boat sheets,

2 1 Sounding books, 2 Wire-drag books, Photographs.

Data from other sources affecting sheet

Remarks: