

# 4776

## WIRE DRAG

Diag. Cht. No. 8551.

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. A Office No. H-4776 W.D.

#### LOCALITY

State Alaska

General locality Prince William Sound

Locality Sawmill Bay

194 27

CHIEF OF PARTY

R. R. Lukens

#### LIBRARY & ARCHIVES

DATE May 14, 1928

B-1870-1 (1)

4776  
WIRE DRAG

DESCRIPTIVE REPORT  
To Accompany Wire Drag Sheet "A"

Evans Bay, Prince William Sound, S. W. Alaska.

Str. SURVEYOR - - - - R. R. Lukens, Chief of Party

Work executed under instructions issued to the Commanding Officer,  
Str. SURVEYOR, dated February 3rd, 1927.

Evans Bay proper, Crab Bay, and the two entrances to Evans Bay from Latouche Passage and Elrington Passage, were wire dragged, using the light wire drag.

The "dual control" method was used entirely. The boats used for all this wire drag work were:- launch Helianthus, Guide Launch, Str. SURVEYOR'S Gig, End Launch, Steam Launch Delta, Tender.

Two officers and a recorder were used on each launch, except the tender, where one officer was in charge.

The maximum length of drag used was 2,000 feet, and the minimum length 1,000 feet. Length of towline was 70 meters, for each drag.

On "A" day, the drag test showed a lift of 7 ft. from N - 1; 5 ft. from 1 - 2; 4 ft. from 2 - 3. It was thought advisable not to subdivide this short drag strip for these various depths, so therefore the maximum lift of 7 ft. was considered for the entire length of the drag, and the effective depth diagram made on this basis.

Also, in regards to "A" day, positions 1 to 3 A were rejected and not plotted because there was no strain on the drag, therefore the line begins with position 4 A and drag is connected by a straight line.

The angle to N buoy as listed in the End Launch record is the buoy nearest to the End Launch. This is true of all the drag work on this sheet.

Position 46 and 47 A were connected by a curve line instead of a straight line because the drag was pulled north by the End Launch between the positions.

Referring to position 38 C, the bight is shifted to the eastward.

Positions noted as not plotted in record books are of no value.

The wrong color scheme was used for the drag lines near the San Juan Cannery. All drag lines shown in red on this sheet should be yellow. The effective depths for these drag strips are shown in yellow.

The shoals found by the drag are as follows:

28 ft. 178 meters,	$26-1/2^{\circ}$	(true) from	Red.
34 ft. 62 meters,	$280-1/2^{\circ}$	"	Point.
27 ft. 183 "	$268-1/2^{\circ}$	"	Ski.
31 ft. 320 "	$255^{\circ}$	"	Ski.
32 ft. 362 "	$249^{\circ}$	"	Ski.
27 ft. 379 "	$244^{\circ}$	"	Ski.

14 ft.	<sup>345</sup> 330 meters,	<sup>49</sup> 50-1/2° (true)	from	Flag.	✓
30 ft.	246 <sup>239</sup> "	69-1/2° <sup>74</sup>	"	Flag.	✓
30 ft.	354 "	124-1/2°	"	Flag.	✓
25 ft.	647 "	90-1/2°	"	Flag.	✓
10 11 ft.	647 "	104°	"	Flag.	✓
29 ft.	873 "	94-3/4°	"	Flag.	✓
23 ft.	745 "	110°	"	Lit.	✓

Supplemental soundings taken in the vicinity of Dig. are plotted on hydrographic smooth sheet "A". (4723)  
 Attention is called to the split at position 45 A.

STATISTICS

Day	Sta. Miles	Angles
A	7.0	550
B	6.7	644
C	4.6	464
D	4.0	240

Respectfully submitted,

*Approved*  
*R. P. Ratti*

A. P. Ratti  
 A. P. Ratti  
 H & G Engr. C & G Survey.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

WIRE DRAG SURVEY.

4776

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. A

REGISTER NO. 4776

State S. W. Alaska

General locality Prince William Sound

Locality ~~Evans Bay~~ Sawmill Bay

Scale 1:10,000 Date of survey August, 1927

Vessel Str. SURVEYOR

Chief of Party R. R. Lukens

Surveyed by A. P. Ratti

Protracted by A. P. Ratti

Soundings penciled by A. P. Ratti

Soundings in fathoms feet

Plane of reference M L L W

Subdivision of wire dragged areas by A. P. Ratti

Inked by A. P. Ratti

Verified by

Instructions dated February 3rd., 1927

Remarks: