



3719

C. & G. SURVEY,
LIBRARY AND ARCHIVES
MAR 15 1915
Acc. No. _____

Diag. Cht. No. 6380-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Washington*

DESCRIPTIVE REPORT.

Hydrographic Sheet No. *3719*

LOCALITY:

Bellingham Bay
Washington Sound

1914

CHIEF PARTY:

F. H. Hardy

11-4645

3719

200

DEPARTMENT OF COMMERCE

U. S. Coast and Geodetic Survey

O. H. Tittmann, Supt.

Hydrographic Sheet No. ~~3718~~ 3719.

Bellingham Bay

Washington Sound

Washington

Steamer Gedney

F. H. Hardy, Asst.,

Chief of Party

February and March

1914

Hydrography by

O. J. Bond, Jr., Aid

H. E. Campbell, Aid

Scale 1:5 000

PLOTTING NOTE.

Sheet was plotted with a Court celluloid protractor. Found few errors in the records. The small black circles scattered variously over the sheet are piles or dolphins that were sketched in from the whaleboat during the progress of the hydrography. They were not located accurately, but are not much in error.

DESCRIPTION.

The bottom of the bay is mud, except around Star rock. Sand bottom was found in a few places close up on to the beach. The lines were run up to the wharfs and log booms, going to the beach only at the limits of the work, and in two small places-- near the Whatcom Falls Mill Co., and just below Wood's saw mill. At the latter place and at the southern limit of the work, there are some detached boulders, but they are close to the high water mark and not dangers. Star rock buoy is at present anchored in mud bottom outside of the rock. There is room enough on top of the rock, however, for a mooring, should it be desired to put the buoy there. The bell buoy off the point below Fairhaven lies sufficiently outside of the shoal extending off that point. No unlooked-for shoaling of the bottom was found. The dredged waterway is well defined. The bottom around the Sehome Warf^h is very irregular, but all muddy. It would seem to indicate that dredging had at some time been done there.

HYDROGRAPHIC SIGNALS.

- South Cement is the southern one of the two large concrete stacks of the cement works, which are about a half mile west of Squallicum Creek, the city limits. Recoverable.
- Derrick is the upright of the derrick on the outer end of the cement works' long wharf. Recoverable.
- Rob is a flag on a telephone pole at the inner end of cement works' long wharf. Not recoverable.
- West is a flag on a dolphin about low water mark just west of crate factory. Not recoverable.
- Slim is the slender stack of a crate factory $\frac{1}{4}$ mile east of Squallicum Creek. Recoverable.
- Squat is the short thick stack of a saw mill (Siemons Lumber Co.) next to the crate factory above. Recoverable.
- Dolphin is a lone dolphin a half mile offshore south of Slim. Conspicuous because there is nothing near it. Recoverable.
- Back is a flag on a pile $\frac{1}{4}$ mile east of Squat. Not recoverable.
- Pile is a flag on a pile at Whatcom Falls Mill Co. Not recoverable.
- Flag is a flag on a pile near "Pile". Not recoverable.
- Old is a flag on an old burnt wharf $\frac{1}{4}$ mile west of the waterway. Not recoverable.
- Slop is a flag on a pile just west of the waterway. Not recoverable.
- Water is the conspicuous red water tank of the Whatcom Falls Mill Co $\frac{1}{4}$ mile west of the waterway. Recoverable.
- Stack is the stack of the Standard Oil Co on the west side of the waterway. Recoverable.
- Small is a small post light on the S E corner of the Standard Oil Co's wharf. Recoverable.
- Corner is the S W corner of storehouse of lumber Company on the east side of the waterway. Morrison Mill Co. Recoverable.
- Tank is the conspicuous red water tank of the Morrison Mill Co., mentioned above. Recoverable.
- City Hall is the flagstaff of same. Recoverable.
- Pink is a flag on pile on east side of waterway. Not recoverable.
- Light is the Whatcom Waterway light at entrance to waterway. Recoverable.
- Pole is a power pole with many cross slats on wharf running out to light. Recoverable.
- Ban is a conspicuous pole on end of Sehome wharf. Recoverable.

Church is the cross of the Catholic Church on Elk St. near Cedar St.
Recoverable.

Up is the flagpole on outer end of building of the Bloedel-
Donovan Lumber Co. Recoverable.

Beech is the triangulation station. Recoverable.

Chimney is the large brick chimney of St. Joseph's Hospital. Recoverable.

High is a pole light on outer end of trestle on lumber wharf of the
Bloedel Donovan Co. Recoverable.

Red

Log are flags on piles along the log booms just north of the E. K.
Wood Co's saw mill. Not recoverable.

Wood

Wireless is the conspicuous wireless mast on hill side above Elk St. three
or four blocks north of Bennett St. Recoverable.

Street is a flagstaff (the higher of two) above Elk St. about Bennett St.
Recoverable.

Bell is the stack of the Bellingham Canning Co. in South Bellingham.
Recoverable.

HYDROGRAPHIC SIGNALS.

Jack Northwest corner of Bellingham Warehouse Co's deck. Recoverable.
Mar Flag on pole. Not recoverable.
Sub " " " " "
Ship Northwest corner of deck-- P A F Commissary. Recoverable.
Dock Banner on wharf. Not recoverable.
Bell Smokestack of Bellingham Canning Co. Recoverable.
Fish A weather vane in shape of a fish. Recoverable.
White Flag on pole. Not recoverable.
Sign White sign board of railroad at south end of trestle. Recoverable.
Short Short white post . Recoverable.
Post Flag on pole. Not recoverable.
Sea Northwest corner of seaward house-- the one with chimney. Recoverable.
Far Flag on p log. Not recoverable.

STATISTICS

Hydrographic Sheet No. 1

Date	Letter	Miles stat.	Positions	Soundings
Feb 19	a	7.7	102	507
20	b	8.4	120	642
24	c	8.6	107	564
25	d	6.5	102	534
26	e	4.8	57	340
27	f	7.3	110	682
Mar 2	g	9.2	128	834
4	h	13.0	141	715
5	i	12.2	143	667
6	k	2.9	41	162
7	l	11.2	162	685
9	m	0.1	3	11
10	n	9.5	142	531
11	p	8.5	124	533
12	q	0.7	17	84
14	r	0.8	13	55
Totals	16	111.4	1512	7546

120
Apr. 19, 1915

L. P. S.

HYDROGRAPHIC SHEET 3719.

Bellingham Bay, Washington Sound, Washington, by
Asst. F. H. Hardy in 1914.

TIDES.

	Bellingham ft.
Mean lower low water, or plane of reference on staff	8.4
Lowest tide observed " "	5.1
Highest " " " "	17.9
Mean range of tide	5.3

Hyd. Sheet 3719

This sheet was projected, protracted and soundings plotted in pencil by field party. Rocks as shown on this sheet were located and inked by field party and assumed correct in the verification.

This sheet was compared with the hydrographic surveys on topographic sheets 2069 and 2070 and was found to differ greatly from them. A large number of changes have been made since the old surveys in the way of dredging and building improvements. However by fitting the projection of this sheet upon the projections of the above named sheets the shore line of this sheet falls in from 5 to 25 feet of water in places where there seems to have been no changes made, indicating that the projections are on a different datum.

Attention is called to the submerged rock about 330 meters north of O Wood, with a least depth of 8 feet. The position of this rock does not agree with the rock on topographic sheet 2069 (least depth 8 feet) or the rock on hydrographic sheet 1887 (least depth 6 feet).

No attempt was made to make the curves on this sheet agree with those on the older survey, because of the inconsistency of the sheets.

Sigs. in feet
Scale 1-5000

Lyman E. Bolinger,

Proj., Prot. & Sigs Plotted by Field Party.
Verified & Inked by A.E.B.