3784 to 3788

AFR 2015

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: Wash.

DESCRIPTIVE REPORT.

70ρ = SheetsNo. 3784 to 3788

LOCALITY:

Day, Portage Bay and

Lake Umon

1919-20

CHIEF OF PARTY:

n. H. Treck

U.S. COAST AND CEODETIC SURVEY

E. Lester Jones, Superintendent.

3784 to 3788

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC

SHEETS 1 to 4 incl. Scale 1-10000 SHEFT 5 Scale 1-5000

COVERING LAKE WASHINGTON, UNION BAY, PORTAGE BAY, AND LAKE UNION, SEATTLE, WASHINGTON.

Ву

Wire Drag and Revision Party, Executed by Augustus P.Ratti, fr.H.& G.E., Under direction of N.H.Heck, Chief of Party.

Season Aug. 26, 1919. to March 6, 1920. Date of instructions June 5, 1919.

LINITS AND EXTENT

She to 1 to 4 incl. cover the shoreline and revised details o of the entire lake- Lake Washington.

Sheet 5 covers the shoreline and revised details of Union Bay, Portage Ray and Lake Union.

SYSTEM OF CONTROL

As the old scheme of triangulation was found inadequate a new scheme of secondary triangulation was used.

The main scheme stations on the mainland are as follows:

Clear2	Baro	May	Fair
Lake	Seward	Castle	Fair Brush ecc.
Samd2	Park	Coal Slough Soft	Brick2
Wolf	Rain	10 Garku	Cot
Bay	Taylor	Dog	Kane
Madison	Bryn	Ruin ecc	
(lettered Son)	Rush	Grost	
Ron	Boom	Pipe	
Bako	Pail	Neđ	

The main scheme stations on Mercer Island are:

Ash	Edge	Dry ecc.	Λ lder	Ca1
Pick ecc. Slope	South	Clay	$ ext{Gilt}$	Lud2
Slope	Drift ecc.	Creek 2	Driar	

The supplementary stations are:

Sunk
Bail2
Corner
Bell

METHODS

The usual Coast Survey planetable methods were used.

The claborate scheme of triangulation afforded frequent use of the three point fix.

Traversing along the shore from Juanita Pt. to Clandwr was necessary. This traverse was checked by a three point fix in the latter vicinity and the error was well within the allowable. Traversing was also done at the extreme north and south ands of the lake where a three point fix was very weak.

The serient was used in locating the mud shoreline and the numerous islands in Union Tay.

Respectfully submilled Augustine Po Rath

METHODS Cont.

Data received from the County and City Engineers was worre now verified and transferred to the sheets in red ink.

Miscellanecus Remarks

The grpwth in the shoreline shown is due to the fact that the lake has been lowered $8x^2$.

The shoreline north of Union Bay and to the East and West of the Channel Lt. in Union Bay as well as the small islands is changeable due to the fluctuation of water level of 8 dec 10 inches.

Very few changes have been made on Lake Washington.

Details and vegetation inland on Lake Washington Union Pay, Portage

Bay, and Lake Union are as per pld chart except were indicated.

The ferry traffic on Lake Washington is shown by the following schedule.

Streets of Laurelhurst appear on chart 6447.
No contours were run, as for most of the lake the immediate shores have been left wooded to prevent slides and new contours unless wun at great expense would be useless. Accurate contours could have been compiled for Seattle, but time was not available.

Data from County and City engineers was tied in by determined street ends.

The City engineers had no reliable data on the section around MtBaker Park and south of Rafleys Peninsula and time was not available to run in these streets.

Revision in Lake Union is incomplete. There are many details at the south end of the lake that need revision.

Planetable positions to accompany topographic sheet no.1.

Object and description	Lat.	р.м.	Long.	D.P.	Height	Remarks.
	، ه	Metora	0 1	Meters	Feat	
Flagstaff at Kenmore	47 45	1038	122 15	286		Top
Smoke stack at Mill	47 45	945	122 15	277		Center
Tank, red, water	47 45	897	122 15	880		Conter
Bridge, center of truss	47 45	579	122 14	1188		Тор
Gable, north, of white Ho.	47 45	301	122 15	345		
Flagpole, white	47 45	650	122 16	469		Top
Chymney, Cement, white Ho.	47 45	555	132 16	5 9 8		Center
Dog , Hydrographic Sta.	47 43	1673	122 16	1060		Regulation disc, in ground
Dock, So. corner	47 41	1821	122 16	362		App. 1 mi. no. of Ire.
Ire, Iron stack at lumber mill at Pntiac	47 41	1038	122 16	98.8	:	Conter
Dock, w.cor. East of Pontiac Bay	47 41	5 7 3	122 15	655		

Planetable positions to accompany Topographic sheet no. 2.

Object and description	Lat.	D.M. Meters	Long.	D.P. Meters	Height	Remarks
		Metats		neters	Fest	
Hut on gook of Sacred Heart Grounds	4 7 39	1630	122 15	1191		Fast Cable
No. cor. dock in Wolf Bay	47 39	254	122 16	644	. :	
Dolphin at ferry land- ing at the foot of Madison St.	4 7 38	486	122 16	62 0		Canter
No. cor. dock app.	4 7 3 8	414	122 14	585		· .
Flagstaff at Yarrow on Ho. on dock	4 7 3 9	273	123 13	67		Тор
So. cor. of Standard Of dock at Houghton	1 47 39	1203	122 12	516		
Dolphin at Kirkland						
forry landing in Moss Bay	47 40	934	122 12	584		Contor

Planetable positions to accompany Topographic sheet no. 3.

Object and description	Lat.	D.M. Meters	Long.	D.P. Meters	Height Feat	Remarks
Flagstaff, on small pavilion	47 35 '	671	122 15		. 25	∰op.
Tank, gre'n	4 7 3 6	1577	122 12	1190		Top
Hut on shore	47 36	906	132 12	702		No. gable
White staff	4 5 36	717	122 12	642		Supola
Light , on shore opposite Great Pt.	47 3 6	1037	122 12	1050		Center
						.*
:	-	i				

Planatable positions to accompany topographic sheet no.4.

Object and description.	Tet.	n.".	Long.	D.P. Notors.	Moight Fect.	Rererks
Stoff, on small pavilion	47 33	1531	182 15	1189	30	Top
Chymnoy, small red house	47 30	143	122 13	245	5 0	Ton
New, Shod of lumber mill et and of dock	A7 31	280	122 13	871		™ost Cable.

Planetable positions to accompany topographic shoot 5.

	Tat.	P.27.	Long.	ָּתַ,ת	Hoj rht	Romarks
	6 /	30 1	0.01	Heters	Foot	COTEST KG
Wost Polphin	47.38	1697	122 19	669		app. 1/3 rd. no. of apro plant.
That Dolphon	47 38	1697	122 19	689		tr
Cost Incinerator	47 29	453	122 15	501		1201 From
East Incinorator	47 39	440	122 19	470		1001 cost of Test Incinera ator.
Polphin	47 39	35 9	183 19	405	Apr	. A90 west of Fremont Fridge
Cur.Flagstaff or University Boat Ho.	47 38	1717	122 18	658	,	дой
Tree, prominent at west entrance of Lake Washington carel	47 28	1743	127 lp .	563	. !	Гор
Gable University derritory bldg.	47 38	1846	122-18	336		Thii to
Vont. on Apro hanger at east entrance of Lake Tachington canal	47 38	1646	122 17	1188		North and top
Cobld of white ho. app. 1450' west of Pay	47 38	948	122 17	43		
Snoke, gnoke stack at lumbor mill in Union Ear	47 39	866	122 17	330	,	Contor
Flag, flagstaff, white on dock no. of mill	47 39	632	122 17	00		Top

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Seattle, Washington	
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Mar12,	, 19 ² (

SUPERINTENDENT, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

						C	hief of Party.
Description.	Latit	ude.	Long	itude.		Method of deter- mination,	Charts affected.
	٠,	D. M. meters.	۰ ,	D. P. meters.	Datum.	t	
Tallest Black stac	k 47 30	1406	122 14	1012	N,A,	Tri.	6446
Black stack	47 31	1803	122 11	1200	đo	do	
Hange Beacon	47 40	1206	122 14	1179	do	do	
Rango Beacon	47 39	1709	122 15	1212	do	do	
Rango Beacon	47.38	6.94	122 16	717	do	do	
Channol Light	47 38	1571	122 17	461	do	do	
Wobstor Pt. Light	47 38	1591	122 16	728	do	do	
Tall yollow tank	47 37	207	122 14	456	đo	do	
Thite Cupola	- 47-36	-1078	122-12	1015	- do -	- do	Rejected See' Field 3"
Rod stack	47:35 ¹	364	122 17	173	do	do	
. Tall spira	47_35°	1698	122 17	713	<u>ij</u> o	do	<u></u>
Yallow tower	<u>47 35</u>	1019	122 13	644	do_	do	
Brown tower	<u> </u>	440	182 18	264	do	do	
Tall_tank	<u>47.3Ω</u>	382	122 16	128	āo	do	
Gold cross	47_36`	836	122 18	667	<u>-</u> -gc	<u>do</u>	
Yollow tank	4 7 _30:	1453	122 14	1016		do	
White sile	<u> 17 37</u>	706	122 12	938	<u>do</u>	do	

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

11—2648

SUPERINTENDENT, U. S. COAST AND GEODETIC SURVEY:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

				_ `				C	hief of Party.
		=;=							
DESCRIPTION.		Lati	tude.	1	Long	itude.		Method of deter- mination,	Charts affected.
·	0	,	D. M. meters.	•	,	D. P. meters.	Datum.		·
brick tank	47	32	471	122	11	852	N. A.	Tri.	6446
South tower , church	47	36	1167	122	18	583	do	do)
north tower, church	47	36	1186	122	18	583	đo	do	
spire	47	40°	1562	122	12	550	do	do	
spire	47	40	1419	122	12	498	do	đo	
Black stack	47	40	1689	122	12	1020	đo.	do	
Black stack	47	41	1042	122	16	100	do xRxXx	P.T.	
Black Stack	47	45	942	122	15	272	đo	Р.Т.	
Black Stack	47	3 9	866	122	17	330	go	go	6447
Ford Tank	47	37	1055	122	19	1 313	do	Tri.	6446, 6447
For remainder o	Coit	<u>y t</u>]	e object	s nov	n ap	pearing	on Chart	s 6446 s	nd 6447
should appear, especas my revision does	ially not i	tar nelt	k on Car de Ellic	itol te B	Hil ay I	l (Tower am unab	chart (447) Smi kæ furtk	th Bldg. er recommenda
(The last two po	ints	in	the abov	e lis	st, 1	ogether	with th	e foot n	ote, are
copied from a duplica descriptive report.	te 1	ist	of landm	arks	dua	ritted by	Mr. He	ck with	the ·
` `\	-			 			 		
		 -			·	}			
A list of objects which are of a									

AND REFER TO NO. 4-MFG

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY WASHINGTON

SECTION OF FIELD RECORDS

Report on Topographic Sheets 3784 to 3787 Surveyed in 1919.

Chief of Party: N. H. Heck.

Surveyed by A. P. Ratti.

Inked by field party.

- 1. The records conform to the General Instructions.
- 2. The character and extent of the work fulfills the requirements of the General Instructions except that the magnetic meridian was snown on only one of the four sheets.
- 3. The work satisfies the specific instructions.
- 4. The marsh and other symbols were left in pencil in some cases. These should have been inked in if time permitted. The projections and triangulation points should have been verified before proceeding with the surveying.
- 5. Details from city engineers' surveys should not have been added to the smeets by the field surveyor. The better plan is to place on the blue prints points which will permit them to be tied into our surveys. Better facilities exist in the office for making the necessary reductions and adjustments. The details of the blue prints should also be checked up on the ground.
- 6. No further surveying is required within the limits of the sheets.
- 7. Rating of the work: Character and scope of the surveying: Good.
 Field drafting: Good.
- 8. Reviewed by: E. P. Ellis, October 2, 1920.
- 9. Two copies of this report to be sent to Division of Hydrography and Topography.
- 10. Triangulation points Rush, Fly Pole and May on sheet 3787 were checked in the office and found to be erroneously plotted. Consequently the shore line is probably somewhat in error.
- 11. Also triangulation point Pick on sheet 3786.

The errors notes in par 10 have since her corrected in The Jules E. P. E.

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY E.Lester Jones, Superintendent.

3784

LOCALITY: LAKE WASHINGTON, STATESTE, WASH.

Sand Pt. -KENMORE-TO JUANTEA BAY

PLANE TABLE SURVEY BY: Augustus P. Ratti, Jr.H& G E.

Chief of Party: N.H.Heck, H.& G.E. Scale: 4-10000 Year: 1919.

U.S. COAST AND GEODETIC SURVEY

E.Lester Jones, Superintendent.

Shur no 2

3785

LAKE WASHINGTON, STATULE, WASH.

Sand Pt. JUNITA BAY TO MEDINA

PLANE TABLE SURVEY BY: Augustus P.Ratti, Jr.H.&G.E.

Chief of Party: N.H. Heck, H.&C. D.

Scale: 1-10000

Year: .1919.

DEPARTMENT OF COMMERCE U.S.COAST AND GEODETIC SURVEY E.Lester Jones, Superintendent.

Thur no. 3

3786

LAKE WASHINGTON, SEATTLE, WASH.

MEDINA TO LAKEWOOD And Barnabie Pt.

PLANE TABLE SURVEY BY: Augustus P.Ratti, Jr.H.&G.E.

Chief of Party N.H. Heck, H.& G.E.

Scale: 1-10000

Year: 1919.

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U.S.COAST AND GEODETIC SURVEY E.Lester Jones, Superintendent.

8kur'm4 3787 3787

Southern End

LAKE WASHINGTON, CHATTLE, WASH.

and Barnable Po
LAKEWOOD, TO RESTOR

PLANE TABLE SURVEY BY: Augustus P.Ratti, Jr.H.&G.E.

Chief of Party: N.H. Heck, H.&G.E.

Scale: 1-10000

Year: 1919.

U.S. COAST AND GEODETIC SURVEY
E. Lester Jones, Superintendent.

Sheet no 5

3788

UNION BAY, PORTAGE BAY, AND LAKE UNION,

SEATTIC, WASHINGTON.

PLANE TABLE SURVEY BY: Augustus P.Retti, Jr.H.&G.I.

Chief offarty: N.H.Heck, H.&G.E.

Scale: 1-50000

Year: 1929.