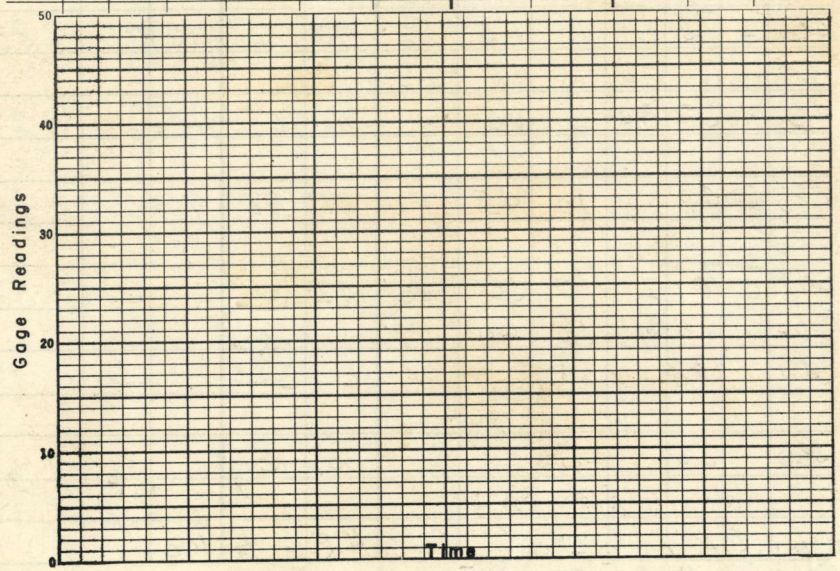
80. _____ River at _____

Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge

85. 90. 92. 94. 96. 97. 98. 99. 99. 98. 97. 96. 94. 92. 90. 85. 80. 75.



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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 516

Checked by [illegible]

Date 5/25/57

Water temp. 87½ °F

Air temp. _____ °F

Time _____

Brazos River at Richmond Tex.

Date July 18, 1957 Party J.N. Sansom 3

Width 38.9 Area 4,210 Vel. 1.93 G.H. _____ Disch. *7,980

Method 2.8 No. Secs. 30 G.H. Chng. 0 ft. per hr. Time meas. 1.3 hrs.

Meter No. 1153 Date Rated 7-21-54 Susp. 50 c-9 Susp. Coef. 1.00

Method Coef. 1.00 Hor. angle Coef. Noted Used rating for, rod Rod Susp.

Meter 0.9 ft. above bottom of weight

Spin before meas. OK after OK

Wading, cable, ice, boat, upstr., downstr., side bridge several feet, mile, above, below gage, and at Rosenberg Bridge

Chain, wire, found 58.69 at _____ G-Sta.

Changed to — at _____

Correct length 58.68

Levels Obtained No

Measurement rated, excellent (2%), good (5%) fair (8%), poor (over 8%) based on following

Cross section Irregular

GAGE READINGS

Time	Meas	Recorder	Tape	Inside	Outside
1:55	pm		9.35		9.48
2:20	pm	9.35	9.35		
3:40	pm	Start			(9.48)
5:00	pm	End			(9.48)
5:45	pm		9.35		
~~Weighted~~ MGH			9.35		9.48
GH Corr.			+.13		
Correct MGH			9.48 *		

Flow Fairly smooth Weather clear hot - windy

Other * Tape kinked. See meas dated 8-5-57 RWG

Gage OK

Record removed Yes Intakes flushed No

Pencil None Wt. Adj. No Paper Dry

Record Clear Chart time OK Clock Reg. No

Observer Not seen -

Control is channel - banks sloughing in below gage may be causing neg. shift.

Remarks WW = 9.55 @ 1:50 pm 9.51 @ 5:45

1 horiz. angles hard to meas. due to wind.

Estab RP chiseled square on top of d.s. handrail opposite station 400.

*Richmond Canal is not pumping.

Page 1 of 3 G.H. of zero flow _____ ft.

Brazos River at Richmond, Tex.

Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge
LEW @ 3:40 pm U.S. Rosenberg Pr.								506.9	#1153		
186		0				0	0	0		3	0
192	90	4.4	2.6	10	42		.56	48	52.8	12	27
210	88	11.5	2.3	25	45	1.25	1.22	192	218	19	234
			8.2	25	47	1.20					
230	88	10.3	2.1	30	44	1.53	1.51	136	155	15	205
			8.2	30	45	1.49					
240	90	10.9	2.2	40	48	1.86	1.88	98	109	10	184
			8.7	40	47	1.90					
250	92	12.2	2.4	40	40	2.23	2.18	112	122	10	244
			9.8	40	42	2.12					
260	92	12.8	2.6	50	43	2.59	2.62	118	128	10	309 ~~314~~
			10.2	50	42	2.65					
270	93	13.4	2.7	50	42	2.65	2.59	125	134	10	324
			10.7	50	44	2.53					
280	92	14.1	2.8	60	46	2.90	2.84	130	141	10	370
			11.3	50	40	2.78					
290	92	14.5	2.9	60	42	3.17	2.98	133	145	10	396
			11.6	50	40	2.78					
300	91	14.3	2.9	60	42	3.17	2.91	130	143	10	378
			11.4	50	42	2.65					
310	91	15.1	3.0	60	40	3.32	2.98	137 6	151	10	408 5
			12.1	50	42	2.65					
320	90	15.8	3.2	60	40	3.32	2.90	142	158	10	412
			12.6	50	45	2.47					
330	90	17.6	3.5	80	52	3.41	2.89	158	176	10	456
			14.1	50	47	2.37					
340	90	18.6	3.7	80	52	3.41	3.06	167	186	10	511
4:25			14.9	50	41	2.71		1820		159	4445

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Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge
350	90	20.0		80	51	3.48	3.13	180	200	10	564
Drift				50	40	2.78					
360	90	(20)	v = 2				(3.13)	126	140	7	395
Take out 5' for drift											
370	90	(18)	v = 2				(2.52)	130	144	8	328
380	92	17.0	3.4	50	46	2.42	2.52	156	170	10	393
			13.6	60	51	2.62					
390	92	19.7	3.9	60	42	3.17	2.98	181	197	10	540
			15.8	50	40	2.78					
400	92	19.2	3.8	60	45	2.96	2.84	176	192	10	500
Turbulent			15.4	50	41	2.71					
410	94	18.8	3.8	50	46	2.42	2.14	177	188	10	379
Boils			15.0	40	48	1.86					
420	95	14.9	3.0	20	40	1.12	1.18	142	149	10	168
			11.9	25	45	1.25					
430	98	10.3	2.1	20	42	1.07	.71	101	103	10	72
			8.2	7	47	.35					
440	⊥	7.5	1.5	15	40	.85	.74	112	112	15	83
old Riv. upstr.			6.0	15	55	.62					
460	90	5.7	3.4	5	46		.26	103	114	20	27
480	60	4.8	2.8	10	45		.51	58	96	20	30
Parallel											
500	0	10.1	20	10	50	.46	.42	0		30	0
Dead water				10	60	.39					
540		13.8	v = 0				0	552 ~~544~~		40	0
580		5.0	v = 0				0	100		20	0
RLW @ 5:00 pm								412		389	
Estab. R.P. chiseled □ on top of d.s. H.R. @ Sta. 400											
RP to W.S. = 56.10 ± .02											

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