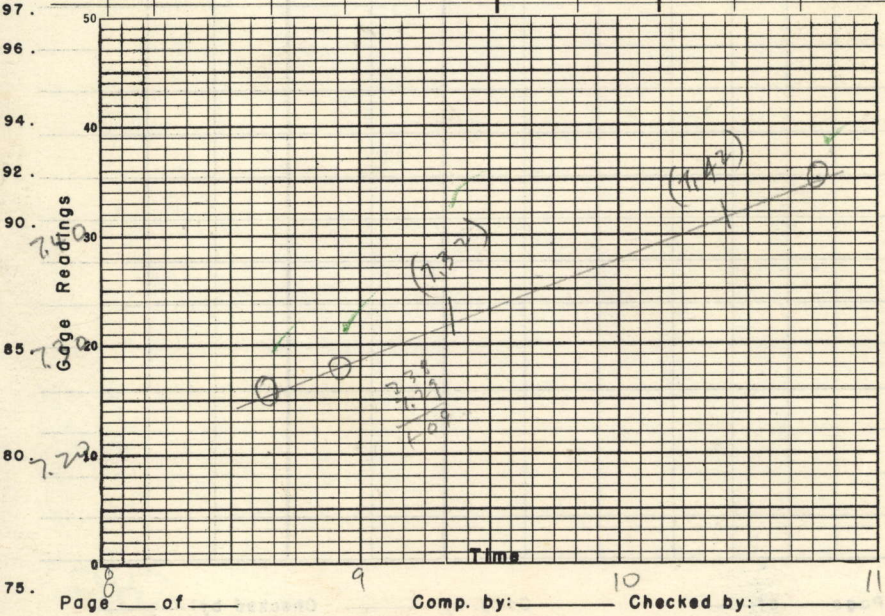
River at

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



Page ___ of ___ Comp. by: _____ Checked by: _____

A-34

CS RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 505

Checked by RHO

Date 3-27-57

Water temp. 61 °F

Air temp. _____ °F

Time _____

Brazos River at Richmond, Tex.

Date Mar 25, 19 57 Party V. B. Sauer

Width 323 Area 2,910 Vel. 2.84 G.H. _____ Disch. 8,240

Method 2.8 No. Secs. 22 G.H. Chng. +.09 ft. per hr. Time meas. 1.0 hrs.

Meter No. 2620 Date Rated Oct 1952 Susp. 50 c.55 Susp. Coef. .995

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

GAGE READINGS

Time	Meas	Recorder	Tape	Inside (to wt)	Outside
8:38	am		7.26	7.26	7.26
			±.04		±.02
8:55	am		7.28		
9:22	(S)		(7.32)		
10:25	(E)		(7.42)		
10:47	am		7.45	7.45	
Weighted MGH			7.37		
GH Corr.					
Correct MGH					

Meter 0.5 ft. above bottom of weight

Spin before meas. OK after OK

Wading, cable, ice, boat, upstr., downstr., side bridge 270 feet, mile, above, below gage, and _____

Chain, wire, found 58.71 at _____ G-Sta.

Changed to — at —

Correct length 58.68

Levels Obtained —

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

Cross section uniform

Flow smooth Weather windy - cool -

Other —

Gage Cable car needs new aluminum plate connectors for horizontal bars - Record removed Yes Intakes flushed No

Pencil 4B Wt. Adj. No Paper dry

Record clear Chart time 1 hr 5 Clock Reg. NO

Observer —

Control —

Remarks Max. ind. on float tape = 8.13 } Both Reset
Min " " " " = 0.67 }

Page 1 of 4 G.H. of zero flow — ft.

505 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
			LEW @ 9:22 am								
125		0								7½	—
140	⊥	2.2	1.3	15	47		.72	33.0		15	24
155	⊥	3.5	.7	30	45	1.49	1.42	52		15	74
			2.8	25	42	1.34					
170	⊥	5.9	1.2	40	45	1.98	1.88	89		15	168
			4.7	40	50	1.79					
185	.99	7.4	1.5	60	46	2.90	2.51	110	111	15	276
			5.9	40	42	2.12					
200	.99	8.1	1.6	60	40	3.33	2.88	121	122	15	348
			6.5	50	46	2.42					
215	⊥	8.4	1.7	80	50	3.55	2.99	126		15	377
			6.7	60	55	2.43					
230	⊥	9.5	1.9	80	49	3.62	3.20	143		15	458
			7.6	50	40	2.78					
245	⊥	10.5	2.1	80	48	3.70	3.24	158		15	511
			8.4	60	48	2.78					
260	⊥	10.7	2.1	80	49	3.62	3.20	161		15	515
			8.6	50	40	2.78					
275	⊥	11.0	2.2	80	46	3.86	3.20	165		15	528
(9:53)			8.8	50	44	2.53					
290	⊥	11.3	2.3	100	56	3.96	3.19	170		15	542
			9.0	50	46	2.42					
305	⊥	11.4	2.3	80	48	3.70	3.18	171		15	544
			9.1	50	42	2.65					
320	⊥	11.5	2.3	80	51	3.48	3.02	173		15	523
			9.2	60	52	2.57					
335	⊥	11.4	2.3	60	42	3.17	2.82	171		15	482
			9.1	50	45	2.47					
								1843			5370

Page ___ of ___ Comp. by: ___ Checked by: RHD

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
								1843			5370
350	⊥	11.8	2.4	60	46	2.90	2.81	178		15	499
			9.4	60	49	2.72					
365	⊥	12.7	2.5	60	45	2.96	2.93	191		15	559
			10.2	60	46	2.90					
380	⊥	12.7	2.5	80	52	3.41	3.14	191		15	600
			10.2	80	62	2.87					
395	⊥	12.8	2.6	80	51	3.48	3.22	193		15	621
			10.2	60	45	2.96					
410	⊥	12.3	2.5	60	46	2.90	2.72	185		15	503
			9.8	50	44	2.53					
425	⊥	6.7	1.3	15	46	.74	.71	128		19	91
			5.4	15	50	.68					
448		0								11½	—
125			REW @ 10:25 am								
323											
								2909		323	8243
											×.995
											8239

Page ___ of ___ Comp. by: ___ Checked by: RHD