RECORDED CS.

9-275 c
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

DISCHARGE MEASUREMENT NOTES

Meas. No. 526

Checked by LLL

Date 2/3/58

T = 70°
@ 2:30 pm

Brazos River at Richmond, Tex

Date Dec 19, 1957 Party Sauer & Holmes 4580

Width 3~~01~~ 13 Area 36~~19~~ 30 Vel. 1.~~72~~ 30 G. H. [illegible] Disch. ~~4173~~

Method ~~2~~ 18 16 No. secs. 23 G. H. change -.02 in 1.4 hrs. Susp. 50 c 9

Method coef. 1.00 Hor. angle coef. Noted Meter No. 1950 Susp. coef. 1.00

GAGE READINGS

Time		Tape ~~Recorder~~	WWT ~~Inside~~	Outside
11:55 pm			6.14 ±.05	
12:00 M	Start	6.79		6.10 ±.05
Float resting on sand in well				
12:20 pm		6.82		
12:45 pm				(6.09)
2:10 pm				(6.07)
2.25	~~Finish~~		6.14	6.07
Weighted M. G. H.				6.08
G. H. correction				
Correct M. G. H.				

Date rated Dec 1953 Used rating for rod rod susp. Meter 0.9 ft. above bottom of wt. Tags checked

Spin before meas. after

Meas. plots % diff. from rating

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

Chain, wire, found 58.70 ", changed to at

Correct length 58.68

Levels obtained

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%), based on following conditions: Cross section Uniform

Flow Smooth Weather Warm-cloudy

Other

Gage Lower door covering is gone. Cannot clean well until water goes down about 1 ft more Record removed Yes Intake flushed No

~~Observer~~ Falling -.02 ft/hr.

Control Bed of stream - More of Right bank seems to have slobbahed off. Cable Anchorage is abt 25' from edge of bluff.

Remarks Max ind on float tape = 17.75 } Both reset
Min " " " " = 6.76 }
Cannot locate cable A-frame footings

Sheet No. 1 of 3 sheets. G. H. of zero flow ft.

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9-275
September 1943

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date Dec-19, 1957

DISCHARGE MEASUREMENT NOTES

Brazos River River at Richmond Texas

Angle coefficient	Dist. from initial point	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	VELOCITY Mean in section	CORR Area	AREA Mean depth	Width	Discharge
	662	0		LEW @ 12:45 pm							6½	
.94	675	1.5	.6	15	55	.62		.62	19.6 ~~20~~	21	14	12.~~4~~ 7
.95	690	3.0	1.8	15	58	.59		.59	49.8 ~~30~~	52 ~~31.5~~	17½	29.4 ~~19.7~~
.97	710	4.9	1.0	15	49	.~~69~~ 70		.68	95	98	20	65 ~~62.9~~
			3.9	15	53	.6~~4~~5						
.96	730	7.8	1.6	20	48	.9~~4~~4		.9~~6~~7	149	156	20	14~~3~~4
			6.2	20	45	~~.99~~ 1.00						
.97	750	11.2	2.2	20	43	1.04		1.14	217	224	20	24~~7~~8
			9.0	25	45	1.24						
.99	770	13.6	2.7	25	47	1.19		1.19	23~~7~~6	23~~9~~8	17½	28~~2~~1
			10.9	25	47	1.19						
.96	785	15.1	3.0	25	43	1.30		1.2~~5~~6	217	226.~~5~~	15	27~~1~~4
			12.1	25	46	1.21						
.97	800	14.9	3.0	30	44	1.52		1.50	22~~1~~2	22~~3~~4	15	333 ~~131~~
			11.9	30	45	1.48						
.99	815	15.4	3.2	25	42	1.33		1.40	2~~30~~29	231	15	320 ~~115~~
			12.2	30	45	1.48						
.99	830	16.3	3.3	30	44	1.52		1.42	200	204	12½	284
			13.0	25	42	WWT= 1.33 6.14		1:30 pm				
.99	840	16.7	3.3	30	40	1.67		1.5~~1~~8	165	167	10	260
			13.4	30	45	1.48						1763.1

No. 2 of 3 Sheets. Comp. by RCH Chk. by

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9-275
September 1943

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Date Dec-19, 1952

DISCHARGE MEASUREMENT NOTES

Brazos River at Richmond Texas

Dist. from initial point	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY: At point	VELOCITY: Mean in vertical	VELOCITY: Mean in section	Area	Mean depth	Width	Discharge
850	17.1	3.4	30	40	1.67		1.63	168	17.1	10	274
		13.7	30	42	1.59						
860	18.8	3.8	25	45	1.24		1.34	177	18.8	10	237
		15.0	30	46	1.45						
870	22.4	4.5	30	42	1.59		1.54	258	28.0	12½	402
		17.9	30	44	1.52						
885	24.9	3.0	25	41	1.36		1.05	305	31.1	12½	320
		21.9	15	46	.74						
895	22.5	4.5	30	44	1.52		1.05	223	22.5	10	238
		18.0	10	40	.58						
905	12.9	2.6	30	45	1.48		1.40	126	12.9	10	176
		10.3	25	42	1.33						
915	12.4	2.5	30	43	1.55		1.34	152	15.2	12½	204
		9.9	25	49	1.14						
930	12.8	2.6	25	40	1.39		1.30	222	22.4	17½	289
		10.2	25	46	1.21						
950	8.2	1.6	25	43	1.30		1.06	147	14.4 / 15.2	17½	158
		6.6	15	41	.83						
965	4.9	1.0	20	48	.94		.73	60	6.1	12½	44
		3.9	10	44	.52						411
995	REW	@	2:10 pm					3631.4		5 / 313	4580
662											
313											

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