

Data Set: Z:\GW Data Steward Working Area\Caloosahatchee River Seepage\Caloosahatchee Well Drawdown Re
 Title: Caloosahatchee River Seepage Project
 Date: 06/15/16
 Time: 15:00:59

PROJECT INFORMATION

Company: SFWMD
 Client: SFWMD
 Test Date: 8/10/1999
 Test Well: CRS02NM

AQUIFER DATA

Saturated Thickness: 50. ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: CRS02NM

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 7.001 ft
 Static Water Column Height: 55.19 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 5. ft
 Total Well Penetration Depth: 55.19 ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
 Gravel Pack Porosity: 0.

No. of Observations: 127

<u>Observation Data</u>			
<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.0162	6.909	3.796	1.062
0.0323	6.639	4.019	1.03
0.0485	6.388	4.255	1.001
0.0647	6.156	4.504	0.969
0.0808	5.937	4.769	0.943
0.097	5.738	5.049	0.916
0.1132	5.554	5.346	0.89
0.1293	5.382	5.661	0.861
0.1455	5.219	5.994	0.834
0.1617	5.067	6.347	0.808
0.1778	4.918	6.721	0.782
0.194	4.781	7.117	0.757
0.2102	4.649	7.536	0.734
0.2263	4.523	7.98	0.707
0.2425	4.405	8.451	0.678
0.2587	4.291	8.949	0.651

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2748	4.184	9.477	0.629
0.291	4.083	10.04	0.607
0.3072	3.985	10.63	0.583
0.3233	3.89	11.26	0.561
0.34	3.796	11.92	0.534
0.3577	3.711	12.63	0.515
0.3763	3.623	13.37	0.498
0.3962	3.537	14.16	0.479
0.4172	3.446	15.	0.456
0.4393	3.358	15.88	0.437
0.4628	3.27	16.82	0.417
0.4877	3.182	17.82	0.395
0.514	3.094	18.82	0.375
0.542	3.008	19.82	0.359
0.5717	2.924	20.82	0.339
0.603	2.874	21.82	0.323
0.6362	2.747	22.82	0.31
0.6713	2.66	23.82	0.3
0.7087	2.581	24.82	0.29
0.7482	2.499	25.82	0.283
0.79	2.416	26.82	0.274
0.8343	2.341	27.82	0.265
0.8813	2.268	28.82	0.25
0.9312	2.196	29.82	0.244
0.9838	2.128	30.82	0.238
1.04	2.063	31.82	0.224
1.099	1.999	32.82	0.221
1.162	1.94	33.82	0.219
1.228	1.881	34.82	0.213
1.298	1.826	35.82	0.203
1.373	1.773	36.82	0.195
1.452	1.723	37.82	0.187
1.535	1.673	38.82	0.186
1.624	1.624	39.82	0.174
1.718	1.58	40.82	0.167
1.817	1.536	41.82	0.167
1.922	1.49	42.82	0.161
2.034	1.447	43.82	0.154
2.152	1.408	44.82	0.151
2.277	1.369	45.82	0.151
2.41	1.332	46.82	0.141
2.55	1.296	47.82	0.134
2.699	1.261	48.82	0.13
2.857	1.226	49.82	0.13
3.023	1.193	50.82	0.13
3.2	1.157	51.82	0.13
3.388	1.122	52.82	0.121
3.586	1.091		

SOLUTION

Slug Test
 Aquifer Model: Confined

Solution Method: Hvorslev
 Log Factor: 0.2282

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	3.976	ft/day
y0	5.733	ft

K = 0.001403 cm/sec
 T = K*b = 198.8 ft²/day (2.138 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	<u>Std. Error</u>	<u>Approx. C.I.</u>	<u>t-Ratio</u>	
K	3.976	0.2371	+/- 0.4692	16.77	ft/day
y0	5.733	0.1474	+/- 0.2917	38.9	ft

C.I. is approximate 95% confidence interval for parameter
 t-ratio = estimate/std. error
 No estimation window

K = 0.001403 cm/sec
 T = K*b = 198.8 ft²/day (2.138 sq. cm/sec)

Parameter Correlations

	<u>K</u>	<u>y0</u>
K	1.00	0.71
y0	0.71	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 31.8 ft²
 Variance 0.2544 ft²
 Std. Deviation 0.5044 ft
 Mean 0.2488 ft
 No. of Residuals .. 127
 No. of Estimates .. 2

NOTES

Estimated thickness of water table aquifer - 30 feet
 Estimated thickness of Lower Tamiami Aquifer - 50 feet leaky confined