

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: 15:18:41

PROJECT INFORMATION

Company: SFWMD
 Client: SFWMD
 Test Date: 8/13/1999
 Test Well: CRS04FS

AQUIFER DATA

Saturated Thickness: 26.69 ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: CRS04FS

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

Initial Displacement: 4.47 ft
 Static Water Column Height: 8.79 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: 8.79 ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
 Gravel Pack Porosity: 0.

No. of Observations: 102

Observation Data			
Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0163	4.47	1.82	0.314
0.0327	3.898	1.926	0.3
0.049	2.872	2.037	0.288
0.0653	2.115	2.155	0.275
0.0817	1.678	2.281	0.262
0.098	1.419	2.413	0.249
0.1143	1.259	2.554	0.239
0.1307	1.153	2.702	0.225
0.147	1.083	2.86	0.219
0.1633	1.028	3.027	0.203
0.1797	0.985	3.204	0.191
0.196	0.949	3.391	0.181
0.2123	0.917	3.589	0.17
0.2287	0.892	3.799	0.158
0.245	0.866	4.022	0.148
0.2613	0.845	4.258	0.139

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2777	0.823	4.508	0.126
0.294	0.804	4.772	0.122
0.3103	0.788	5.053	0.115
0.3267	0.77	5.349	0.108
0.3433	0.755	5.664	0.101
0.361	0.739	5.997	0.093
0.3797	0.725	6.35	0.088
0.3995	0.709	6.724	0.08
0.4205	0.696	7.12	0.073
0.4427	0.68	7.539	0.067
0.4662	0.666	7.984	0.063
0.491	0.653	8.454	0.059
0.5173	0.637	8.953	0.057
0.5453	0.624	9.481	0.051
0.575	0.608	10.04	0.049
0.6063	0.601	10.63	0.047
0.6395	0.581	11.26	0.044
0.6747	0.563	11.92	0.046
0.712	0.551	12.63	0.041
0.7515	0.536	13.37	0.036
0.7933	0.522	14.16	0.041
0.8377	0.507	15.	0.044
0.8847	0.493	15.89	0.041
0.9345	0.478	16.83	0.041
0.9872	0.463	17.82	0.037
1.043	0.45	18.82	0.021
1.102	0.435	19.82	0.021
1.165	0.421	20.82	0.02
1.231	0.408	21.82	0.018
1.302	0.393	22.82	0.018
1.376	0.38	23.82	0.015
1.455	0.366	24.82	0.015
1.539	0.353	25.82	0.018
1.627	0.34	26.82	0.017
1.721	0.327	27.82	0.023

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Hvorslev
 Log Factor: 0.271

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	22.07	ft/day
y0	3.754	ft

K = 0.007786 cm/sec
 T = K*b = 589.1 ft²/day (6.334 sq. cm/sec)

NOTES

Estimated thickness of water table aquifer - 30 feet

Estimated thickness of Lower Tamiami Aquifer - 50 feet leaky confined