

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: 14:55:34

PROJECT INFORMATION

Company: SFWMD
 Client: SFWMD
 Test Date: 8/17/1999
 Test Well: CRS02FS

AQUIFER DATA

Saturated Thickness: 27. ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: CRS02FS

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

Initial Displacement: 2.885 ft
 Static Water Column Height: 21.35 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: 21.35 ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
 Gravel Pack Porosity: 0.

No. of Observations: 94

Observation Data			
Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0165	2.878	1.458	2.23
0.033	2.871	1.542	2.197
0.0495	2.865	1.631	2.162
0.066	2.855	1.724	2.126
0.0825	2.848	1.824	2.089
0.099	2.84	1.929	2.05
0.1155	2.835	2.041	2.009
0.132	2.826	2.159	1.967
0.1485	2.817	2.284	1.924
0.165	2.81	2.416	1.877
0.1815	2.803	2.557	1.831
0.198	2.796	2.706	1.782
0.2145	2.787	2.863	1.731
0.231	2.78	3.03	1.687
0.2475	2.771	3.207	1.633
0.264	2.764	3.394	1.581

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2805	2.759	3.592	1.526
0.297	2.751	3.803	1.467
0.3135	2.744	4.025	1.41
0.33	2.736	4.261	1.354
0.3467	2.729	4.511	1.293
0.3643	2.72	4.776	1.236
0.383	2.71	5.056	1.175
0.4028	2.702	5.353	1.114
0.4238	2.693	5.667	1.053
0.446	2.681	6.	0.991
0.4695	2.67	6.353	0.929
0.4943	2.658	6.727	0.868
0.5207	2.645	7.123	0.806
0.5487	2.634	7.543	0.747
0.5783	2.619	7.987	0.685
0.6097	2.605	8.457	0.627
0.6428	2.596	8.956	0.572
0.678	2.57	9.484	0.519
0.7153	2.554	10.04	0.467
0.7548	2.535	10.64	0.415
0.7967	2.517	11.26	0.367
0.841	2.496	11.93	0.318
0.888	2.475	12.63	0.279
0.9378	2.453	13.38	0.237
0.9905	2.428	14.17	0.193
1.046	2.404	15.01	0.156
1.105	2.379	15.89	0.125
1.168	2.352	16.83	0.092
1.234	2.323	17.83	0.063
1.305	2.292	18.83	0.039
1.379	2.262	19.83	0.018

SOLUTION

Slug Test

Aquifer Model: Unconfined

Solution Method: Hvorslev

Log Factor: 0.271

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	0.6666	ft/day
y0	2.903	ft

K = 0.0002352 cm/sec

T = K*b = 18. ft²/day (0.1935 sq. cm/sec)NOTES

Estimated thickness water table aquifer - 30 feet

Estimated thickness Lower Tamiami Aquifer - 50 feet - leaky confined