

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: 15:15:27

PROJECT INFORMATION

Company: SFWMD
 Client: SFWMD
 Test Date: 7/22/1999
 Test Well: CRS03NS

AQUIFER DATA

Saturated Thickness: 24.13 ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: CRS03NS

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

Initial Displacement: 2.2 ft
 Static Water Column Height: 13.53 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: 13.53 ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
 Gravel Pack Porosity: 0.

No. of Observations: 125

<u>Time (min)</u>	<u>Observation Data</u>		<u>Displacement (ft)</u>
	<u>Displacement (ft)</u>	<u>Time (min)</u>	
0.0163	1.927	3.589	0.244
0.0327	1.166	3.799	0.244
0.049	0.745	4.022	0.244
0.0653	0.62	4.258	0.247
0.0817	0.512	4.508	0.252
0.098	0.435	4.772	0.257
0.1143	0.431	5.053	0.258
0.1307	0.428	5.349	0.257
0.147	0.363	5.664	0.255
0.1633	0.363	5.997	0.257
0.1797	0.363	6.35	0.254
0.196	0.362	6.724	0.252
0.2123	0.36	7.12	0.252
0.2287	0.36	7.539	0.254
0.245	0.36	7.984	0.254
0.2613	0.36	8.454	0.251

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2777	0.36	8.953	0.241
0.294	0.36	9.481	0.241
0.3103	0.36	10.04	0.247
0.3267	0.359	10.63	0.241
0.3433	0.359	11.26	0.242
0.361	0.359	11.92	0.236
0.3797	0.359	12.63	0.239
0.3995	0.359	13.37	0.232
0.4205	0.359	14.16	0.229
0.4427	0.3	15.	0.231
0.4662	0.301	15.89	0.232
0.491	0.3	16.83	0.229
0.5173	0.301	17.82	0.229
0.5453	0.301	18.82	0.225
0.575	0.301	19.82	0.219
0.6063	0.301	20.82	0.212
0.6395	0.3	21.82	0.213
0.6747	0.301	22.82	0.213
0.712	0.3	23.82	0.211
0.7515	0.3	24.82	0.209
0.7933	0.3	25.82	0.209
0.8377	0.3	26.82	0.203
0.8847	0.3	27.82	0.202
0.9345	0.3	28.82	0.198
0.9872	0.3	29.82	0.198
1.043	0.3	30.82	0.193
1.102	0.298	31.82	0.19
1.165	0.298	32.82	0.189
1.231	0.301	33.82	0.187
1.302	0.298	34.82	0.185
1.376	0.298	35.82	0.186
1.455	0.301	36.82	0.185
1.539	0.298	37.82	0.185
1.627	0.298	38.82	0.183
1.721	0.3	39.82	0.185
1.82	0.3	40.82	0.182
1.926	0.3	41.82	0.18
2.037	0.298	42.82	0.176
2.155	0.3	43.82	0.18
2.281	0.3	44.82	0.183
2.413	0.3	45.82	0.185
2.554	0.3	46.82	0.183
2.702	0.301	47.82	0.182
2.86	0.245	48.82	0.182
3.027	0.244	49.82	0.177
3.204	0.244	50.82	0.177
3.391	0.244		

SOLUTION

Slug Test

Aquifer Model: Unconfined

Solution Method: Hvorslev

Log Factor: 0.271

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	12.45	ft/day
y0	2.184	ft

K = 0.004393 cm/sec

T = K*b = 300.5 ft²/day (3.231 sq. cm/sec)

NOTES

Estimated thickness of water table aquifer - 30 feet

Estimated thickness of Lower Tamiami Aquifer - 50 feet leaky confined