

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: 15:43:29

PROJECT INFORMATION

Company: SFWMD
 Client: SFWMD
 Test Date: 8/11/1999
 Test Well: CRS06NS

AQUIFER DATA

Saturated Thickness: 25. ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: CSR06NS

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

Initial Displacement: 5.453 ft
 Static Water Column Height: 8. 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. 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)
0.0163	5.434	1.455	0.057
0.0327	4.175	1.539	0.054
0.049	3.005	1.627	0.052
0.0653	2.213	1.721	0.051
0.0817	1.604	1.82	0.051
0.098	1.108	1.926	0.052
0.1143	0.783	2.037	0.052
0.1307	0.602	2.155	0.051
0.147	0.478	2.281	0.05
0.1633	0.393	2.413	0.048
0.1797	0.331	2.554	0.045
0.196	0.289	2.702	0.041
0.2123	0.256	2.86	0.038
0.2287	0.233	3.027	0.037
0.245	0.214	3.204	0.037
0.2613	0.197	3.391	0.032

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2777	0.182	3.589	0.032
0.294	0.171	3.799	0.032
0.3103	0.162	4.022	0.029
0.3267	0.155	4.258	0.031
0.3433	0.148	4.508	0.028
0.361	0.142	4.772	0.026
0.3797	0.135	5.053	0.029
0.3995	0.13	5.349	0.028
0.4205	0.126	5.664	0.032
0.4427	0.122	5.997	0.032
0.4662	0.119	6.35	0.025
0.491	0.113	6.724	0.022
0.5173	0.11	7.12	0.025
0.5453	0.106	7.539	0.022
0.575	0.1	7.984	0.016
0.6063	0.099	8.454	0.019
0.6395	0.093	8.953	0.022
0.6747	0.09	9.481	0.014
0.712	0.087	10.04	0.018
0.7515	0.084	10.63	0.025
0.7933	0.081	11.26	0.028
0.8377	0.078	11.92	0.032
0.8847	0.076	12.63	0.026
0.9345	0.074	13.37	0.025
0.9872	0.071	14.16	0.021
1.043	0.068	15.	0.031
1.102	0.065	15.89	0.034
1.165	0.063	16.83	0.029
1.231	0.063	17.82	0.024
1.302	0.061	18.82	0.026
1.376	0.058	19.82	0.025

SOLUTION

Slug Test

Aquifer Model: Unconfined

Solution Method: Hvorslev

Log Factor: 0.271

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	55.73	ft/day
y0	6.498	ft

K = 0.01966 cm/sec

T = K*b = 1393.3 ft²/day (14.98 sq. cm/sec)NOTES

Estimated thickness of water table aquifer - 30 feet

Estimated thickness of Lower Tamiami Aquifer - 50 feet