Data Set: Z:\GW Data Steward Working Area\Caloosahatchee River Seepage\Caloosahatchee Well Drawdown Res
Title: Caloosahatchee River Seepage Project
Date: 06/15/16
Time: 14:48:01

PROJECT INFORMATION

Company: SFWMD
Client: SFWMD
Test Date: 8/12/1999
Test Well: CRS01NM

AQUIFER DATA

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

SLUG TEST WELL DATA

Test Well: CRS01NM

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

Initial Displacement: 5.699 ft
Static Water Column Height: 56.5 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 5. ft
Total Well Penetration Depth: 56.5 ft
Corrected Casing Radius (Bouwer-Rice Method): 0.083 ft
Gravel Pack Porosity: 0.

No. of Observations: 99

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0163	5.506	1.721	0.614
0.0327	4.806	1.82	0.596
0.049	4.217	1.926	0.575
0.0653	3.752	2.037	0.554
0.0817	3.374	2.155	0.536
0.098	3.064	2.281	0.517
0.1143	2.81	2.413	0.5
0.1307	2.597	2.554	0.484
0.147	2.417	2.702	0.465
0.1633	2.262	2.86	0.446
0.1797	2.131	3.027	0.426
0.196	2.017	3.204	0.409
0.2123	1.918	3.391	0.394
0.2287	1.831	3.589	0.381
0.245	1.753	3.799	0.367
0.2613	1.684	4.022	0.355

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.2777	1.625	4.258	0.338
0.294	1.569	4.508	0.321
0.3103	1.519	4.772	0.302
0.3267	1.475	5.053	0.286
0.3433	1.43	5.349	0.275
0.361	1.391	5.664	0.264
0.3797	1.355	5.997	0.254
0.3995	1.319	6.35	0.246
0.4205	1.283	6.724	0.24
0.4427	1.251	7.12	0.228
0.4662	1.218	7.539	0.205
0.491	1.186	7.984	0.201
0.5173	1.157	8.454	0.187
0.5453	1.129	8.953	0.171
0.575	1.098	9.481	0.169
0.6063	1.084	10.04	0.164
0.6395	1.042	10.63	0.152
0.6747	1.016	11.26	0.153
0.712	0.987	11.92	0.149
0.7515	0.958	12.63	0.142
0.7933	0.931	13.37	0.136
0.8377	0.904	14.16	0.123
0.8847	0.876	15.	0.123
0.9345	0.855	15.89	0.12
0.9872	0.83	16.83	0.113
1.043	0.807	17.82	0.101
1.102	0.784	18.82	0.093
1.165	0.759	19.82	0.091
1.231	0.738	20.82	0.1
1.302	0.717	21.82	0.106
1.376	0.697	22.82	0.107
1.455	0.676	23.82	0.123
1.539	0.654	24.82	0.091
1.627	0.634		

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Butler-Zhan

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	6.305	ft/day
Ss	0.002	ft^{-1}
Kz/Kr	0.25	
Le	403.1	ft

K = 0.002224 cm/sec
T = K*b = 315.3 ft^2/day (3.39 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	6.305	0.4805	+/- 0.9539	13.12	ft/day
Ss	0.002	0.0004737	+/- 0.0009402	4.222	ft^{-1}
Kz/Kr	0.25	not estimated			
Le	403.1	54.21	+/- 107.6	7.436	ft

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

K = 0.002224 cm/sec
T = K*b = 315.3 ft²/day (3.39 sq. cm/sec)

Parameter Correlations

	Kr	Ss	Le
Kr	1.00	-0.93	-0.17
Ss	-0.93	1.00	0.11
Le	-0.17	0.11	1.00

Residual Statistics

for weighted residuals

Sum of Squares. . . 4.133 ft^2
Variance . . . . . 0.04305 ft^2
Std. Deviation . . . . . 0.2075 ft
Mean . . . . . 0.105 ft
No. of Residuals . . 99
No. of Estimates . . 3

NOTES

Estimated water table aquifer thickness - 30 feet
Estimated Lower Tamiami aquifer thickness - 50 feet