

Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR
 Date: 06/02/16
 Time: 12:22:53

PROJECT INFORMATION

Company: SFWMD
 Client: SFWMD
 Test Date: 1/14/1997
 Test Well: KRCFFM

AQUIFER DATA

Saturated Thickness: 62.13 ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: KRCFFM

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

Initial Displacement: 4.22 ft
 Static Water Column Height: 33.18 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 4. ft
 Total Well Penetration Depth: 33.18 ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
 Gravel Pack Porosity: 0.

No. of Observations: 53

Time (min)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (min)	
0.0666	1.	1.25	0.2251
0.0833	0.9716	1.333	0.2062
0.1	0.9384	1.417	0.1872
0.1166	0.9076	1.5	0.1706
0.1333	0.8791	1.583	0.1564
0.15	0.7464	1.667	0.1422
0.1666	0.8531	1.75	0.1303
0.1833	0.8104	1.833	0.1185
0.2	0.8057	1.917	0.109
0.2166	0.7844	2.	0.09953
0.2333	0.7725	2.5	0.05924
0.25	0.7559	3.	0.03791
0.2666	0.7393	3.5	0.0237
0.2833	0.7227	4.	0.01659
0.3	0.7062	4.5	0.01185
0.3166	0.6919	5.	0.009479
0.3333	0.6777	5.5	0.007109

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.4167	0.6066	6.	0.004739
0.5	0.5474	6.5	0.00237
0.5833	0.4953	7.	0.004739
0.6667	0.4455	7.5	0.00237
0.75	0.4028	8.	0.00237
0.8333	0.3649	8.5	0.00237
0.9167	0.3318	9.	0.
1.	0.2986	9.5	0.
1.083	0.2701	10.	0.
1.167	0.2464		

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.25

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	4.467	ft/day
y0	1.031	ft

K = 0.001576 cm/sec
 T = K*b = 277.5 ft²/day (2.984 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	<u>Std. Error</u>	<u>Approx. C.I.</u>	<u>t-Ratio</u>	
K	4.467	0.07664	+/- 0.1539	58.28	ft/day
y0	1.031	0.008114	+/- 0.01629	127.1	ft

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

K = 0.001576 cm/sec
 T = K*b = 277.5 ft²/day (2.984 sq. cm/sec)

Parameter Correlations

	K	y0
K	1.00	0.73
y0	0.73	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.01985 ft²
Variance 0.0003892 ft²
Std. Deviation..... 0.01973 ft
Mean..... 0.00233 ft
No. of Residuals .. 53
No. of Estimates .. 2