

Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR
 Date: 06/02/16
 Time: 12:45:41

PROJECT INFORMATION

Company: SFWMD
 Client: SFWMD
 Test Date: 1/15/1997
 Test Well: KRDNND1

AQUIFER DATA

Saturated Thickness: 160. ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: KRDNND1

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

Initial Displacement: 3.73 ft
 Static Water Column Height: 75.87 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 5.4 ft
 Total Well Penetration Depth: 75.87 ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
 Gravel Pack Porosity: 0.

No. of Observations: 59

Observation Data			
Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0333	1.	1.333	0.05094
0.05	0.882	1.417	0.04558
0.0666	0.8445	1.5	0.0429
0.0833	0.7641	1.583	0.04021
0.1	0.7426	1.667	0.03485
0.1166	0.689	1.75	0.03217
0.1333	0.6568	1.833	0.02949
0.15	0.6139	1.917	0.02681
0.1666	0.5845	2.	0.02413
0.1833	0.555	2.5	0.01609
0.2	0.5228	3.	0.01072
0.2166	0.4987	3.5	0.008043
0.2333	0.4718	4.	0.005362
0.25	0.4504	4.5	0.005362
0.2666	0.429	5.	0.005362
0.2833	0.4102	5.5	0.005362
0.3	0.3887	6.	0.002681

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.3166	0.3727	6.5	0.002681
0.3333	0.3566	7.	0.002681
0.4167	0.2842	7.5	0.
0.5	0.2332	8.	0.
0.5833	0.1903	8.5	0.
0.6667	0.1609	9.	0.
0.75	0.1367	9.5	0.
0.8333	0.1153	10.	0.
0.9167	0.09651	11.	0.
1.	0.08579	12.	0.
1.083	0.07507	13.	0.
1.167	0.06434	14.	0.
1.25	0.0563		

SOLUTION

Slug Test
 Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 3.309

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	9.378	ft/day
y0	1.009	ft

K = 0.003308 cm/sec
 T = K*b = 1500.5 ft²/day (16.13 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	9.378	0.2487	+/- 0.498	37.7	ft/day
y0	1.009	0.01481	+/- 0.02965	68.1	ft

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

K = 0.003308 cm/sec
 T = K*b = 1500.5 ft²/day (16.13 sq. cm/sec)

Parameter Correlations

	<u>K</u>	<u>y0</u>
K	1.00	0.80
y0	0.80	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.03258 ft²
Variance 0.0005716 ft²
Std. Deviation..... 0.02391 ft
Mean..... 0.008798 ft
No. of Residuals .. 59
No. of Estimates .. 2