

Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR
 Date: 06/02/16
 Time: 12:43:57

PROJECT INFORMATION

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

AQUIFER DATA

Saturated Thickness: 25.22 ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: KRDFFS

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

Initial Displacement: 2.24 ft
 Static Water Column Height: 14.14 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 4.5 ft
 Total Well Penetration Depth: 14.14 ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
 Gravel Pack Porosity: 0.

No. of Observations: 53

Observation Data			
Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0333	1.	1.083	0.004444
0.05	0.9022	1.167	0.004444
0.0666	0.7822	1.25	0.004444
0.0833	0.5956	1.333	0.004444
0.1	0.4667	1.417	0.004444
0.1166	0.36	1.5	0.004444
0.1333	0.3022	1.583	0.004444
0.15	0.2578	1.667	0.004444
0.1666	0.2	1.75	0.004444
0.1833	0.1689	1.833	0.004444
0.2	0.1378	1.917	0.004444
0.2166	0.12	2.	0.004444
0.2333	0.1067	2.5	0.004444
0.25	0.09333	3.	0.004444
0.2666	0.08	3.5	0.004444
0.2833	0.07111	4.	0.
0.3	0.06222	4.5	0.

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.3166	0.05778	5.	0.
0.3333	0.04889	5.5	0.
0.4167	0.03556	6.	0.
0.5	0.02667	6.5	0.
0.5833	0.02222	7.	0.
0.6667	0.01778	7.5	0.
0.75	0.01333	8.	0.
0.8333	0.008889	8.5	0.
0.9167	0.008889	9.	0.
1.	0.008889		

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.785

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	36.25	ft/day
y0	1.554	ft

K = 0.01279 cm/sec
 T = K*b = 914.2 ft²/day (9.83 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	36.25	0.718	+/- 1.442	50.49	ft/day
y0	1.554	0.02858	+/- 0.05738	54.38	ft

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

K = 0.01279 cm/sec
 T = K*b = 914.2 ft²/day (9.83 sq. cm/sec)

Parameter Correlations

	K	y0
K	1.00	0.85
y0	0.85	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.01596 ft²
Variance 0.0003129 ft²
Std. Deviation 0.01769 ft
Mean 0.004226 ft
No. of Residuals .. 53
No. of Estimates .. 2