

Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR

Date: 06/02/16

Time: 12:51:03

PROJECT INFORMATION

Company: SFWMD

Client: SFWMD

Test Date: 1/14/1997

Test Well: KRDNNS2

AQUIFER DATA

Saturated Thickness: 26.08 ft

Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: KRDNNS2

X Location: 0. ft

Y Location: 0. ft

Initial Displacement: 3.62 ft

Static Water Column Height: 13.68 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: 13.68 ft

Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft

Gravel Pack Porosity: 0.

No. of Observations: 45

Time (min)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (min)	
0.03	1.	0.6667	0.09116
0.0333	0.9448	0.75	0.07182
0.05	0.9282	0.8333	0.05525
0.0666	0.8591	0.9167	0.0442
0.0833	0.7901	1.	0.03591
0.1	0.7348	1.083	0.03039
0.1166	0.7017	1.167	0.02486
0.1333	0.6436	1.25	0.01934
0.15	0.6022	1.333	0.01657
0.1666	0.5608	1.417	0.01381
0.1833	0.5221	1.5	0.01105
0.2	0.489	1.583	0.01105
0.2166	0.4613	1.667	0.01105
0.2333	0.4309	1.75	0.008287
0.25	0.4033	1.833	0.008287
0.2666	0.3757	1.917	0.008287
0.2833	0.3536	2.	0.005525

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.3	0.3315	2.5	0.002762
0.3166	0.3122	3.	0.002762
0.3333	0.2928	3.5	0.002762
0.4167	0.2182	4.	0.002762
0.5	0.1602	4.5	0.
0.5833	0.1215		

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.819

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	11.47	ft/day
y0	1.146	ft

K = 0.004046 cm/sec
 T = K*b = 299.1 ft²/day (3.216 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	11.57	1.755E+4	+/- 3.54E+4	0.0006592	ft/day
y0	4527.4	1125.7	+/- 2270.5	4.022	ft

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

K = 0.004081 cm/sec
 T = K*b = 301.7 ft²/day (3.244 sq. cm/sec)

Parameter Correlations

	K	y0
K	1.00	0.79
y0	0.79	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 1.301E+8 ft²
 Variance 3.026E+6 ft²
 Std. Deviation 1739.6 ft

Mean -1116.4 ft
No. of Residuals .. 45
No. of Estimates .. 2