

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-721L_RHT_KGS_2.aqt
 Title: OW-721 L RISING HEAD TEST 5-20-08
 Date: 06/08/16
 Time: 11:55:40

PROJECT INFORMATION

Company: Turkey Point
 Client: BECHTEL
 Project: 6468-07-1950
 Location: Turkey Point
 Test Date: 5-20-08
 Test Well: OW-721 L

AQUIFER DATA

Saturated Thickness: 90. ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-721 L

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

Initial Displacement: 9.341 ft
 Static Water Column Height: 110.2 ft
 Casing Radius: 0.083 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 17. ft
 Total Well Penetration Depth: 109. ft

No. of Observations: 43

| Time (sec) | Observation Data | | Displacement (ft) |
|------------|-------------------|------------|-------------------|
| | Displacement (ft) | Time (sec) | |
| 0. | 9.341 | 19.26 | 4.119 |
| 0.42 | 9.261 | 20.82 | 3.928 |
| 0.9 | 8.944 | 22.5 | 3.738 |
| 1.44 | 8.348 | 24.3 | 3.545 |
| 1.92 | 7.936 | 26.16 | 3.367 |
| 2.521 | 7.599 | 28.2 | 3.183 |
| 3.121 | 7.366 | 30.3 | 3.011 |
| 3.721 | 7.156 | 32.52 | 2.833 |
| 4.38 | 6.951 | 34.92 | 2.667 |
| 5.1 | 6.738 | 37.44 | 2.517 |
| 5.88 | 6.516 | 40.08 | 2.367 |
| 6.66 | 6.321 | 42.9 | 2.223 |
| 7.5 | 6.117 | 45.9 | 2.092 |
| 8.4 | 5.918 | 49.08 | 1.972 |
| 9.36 | 5.708 | 52.44 | 1.861 |
| 10.32 | 5.523 | 56.04 | 1.753 |

| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
|------------|-------------------|------------|-------------------|
| 11.4 | 5.321 | 59.64 | 1.668 |
| 12.54 | 5.121 | 63.84 | 1.586 |
| 13.74 | 4.917 | 68.04 | 1.515 |
| 15. | 4.722 | 72.24 | 1.465 |
| 16.32 | 4.521 | 77.04 | 1.401 |
| 17.76 | 4.315 | | |

SOLUTION

Slug Test
 Aquifer Model: Confined
 Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | |
|-----------|-----------|------------------|
| Kr | 1.325 | ft/day |
| Ss | 0.0001285 | ft ⁻¹ |
| Kz/Kr | 1. | |

K = 0.0004674 cm/sec
 T = K*b = 119.2 ft²/day (1.282 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | Std. Error | Approx. C.I. | t-Ratio | |
|-----------|-----------|---------------|--------------|---------|------------------|
| Kr | 1.325 | 0.04753 | +/- 0.096 | 27.88 | ft/day |
| Ss | 0.0001285 | 1.872E-5 | +/- 3.782E-5 | 6.864 | ft ⁻¹ |
| Kz/Kr | 1. | not estimated | | | |

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

K = 0.0004674 cm/sec
 T = K*b = 119.2 ft²/day (1.282 sq. cm/sec)

Parameter Correlations

| | Kr | Ss |
|----|-------|-------|
| Kr | 1.00 | -0.96 |
| Ss | -0.96 | 1.00 |

Residual Statistics

for weighted residuals

Sum of Squares... 0.6737 ft²
 Variance 0.01643 ft²

Std. Deviation 0.1282 ft
Mean 0.02247 ft
No. of Residuals . . 43
No. of Estimates . . 2