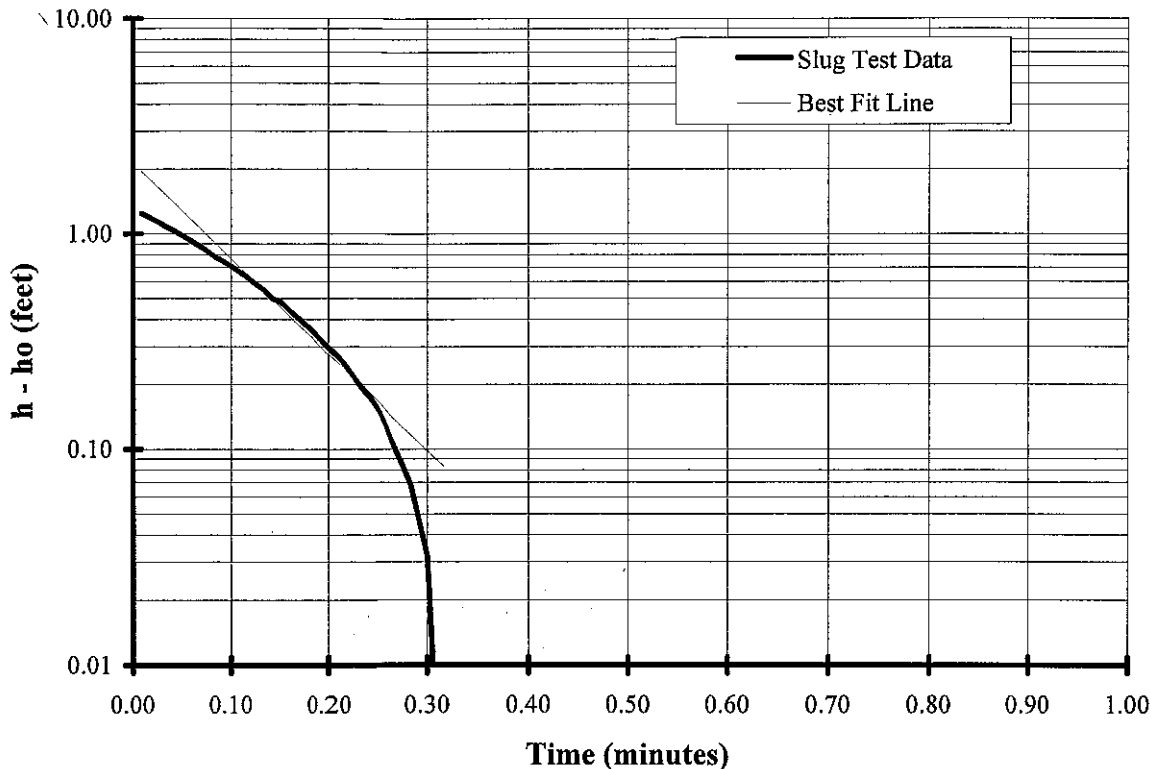


SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
 SFWMD

Date of Test: 8/31/04
 Well ID: Fireworks - Shallow

SLUG TEST



WELL CONSTRUCTION DATA

R casing = 0.08 feet
 R gravel pack = 0.25 feet
 Porosity of the aquifer = 0.25
 Porosity of gravel pack = 0.30
 Effective radius of casing = 0.10 feet (Rc)
 Casing radius for analysis = 0.11 feet (Rw)
 Radius of well for analysis = 0.25 feet
 Casing Stickup = 2.79 feet als
 Depth of water = 5.29 feet btoc
 Depth of well = 25.05 feet btoc
 Depth of aquifer = 50.00 feet bls
 Depth to top of filter pack = 22.55 feet bls
 Length of screen = 2.50 feet
 Length of gravel pack = 4.00 feet
 L (input) = 4.00 feet
 Case = 2

SLUG TEST DATA/RESULTS
 (Bouwer Rice Method)

L/Rw = 16
 A = 2.02
 B = 0.28
 C = 1.47
 H = 19.76 feet
 ln[(D-H)/Rw] = 4.80
 Ln (Ri/Rw) = 2.91
 R influence = 4.59 feet (Ri)
Line Fit Range and Parameters
 t minimum = >.09 minutes
 t maximum = <0.26 minutes
 r² = 0.981
 Estimated K h = 65 feet/day

SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands

Date of Test: 8/31/04

SFWMD

Well ID: Fireworks - Shallow

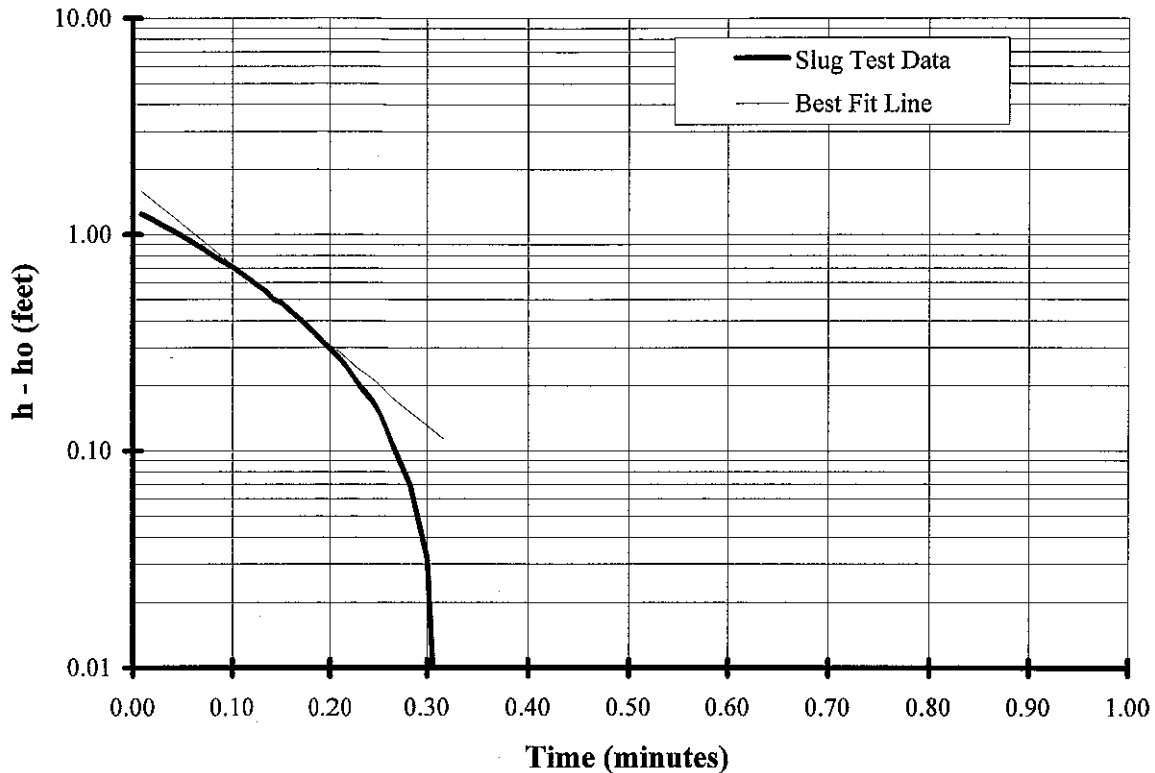
Incremental Values		H/Ho	Incremental Values		H/Ho	Incremental Values		H/Ho	Incremental Values		H/Ho
Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)	
0.000	1.31	1.00									
0.008	1.25	0.95									
0.017	1.20	0.91									
0.025	1.14	0.87									
0.033	1.08	0.83									
0.042	1.03	0.79									
0.050	0.98	0.75									
0.058	0.93	0.71									
0.067	0.88	0.67									
0.075	0.83	0.64									
0.083	0.78	0.60									
0.092	0.75	0.57									
0.100	0.71	0.54									
0.108	0.66	0.51									
0.117	0.63	0.48									
0.125	0.59	0.45									
0.133	0.55	0.42									
0.142	0.50	0.38									
0.150	0.48	0.37									
0.158	0.45	0.34									
0.167	0.42	0.32									
0.175	0.38	0.29									
0.183	0.35	0.27									
0.192	0.32	0.25									
0.200	0.30	0.23									
0.208	0.27	0.20									
0.217	0.24	0.18									
0.225	0.22	0.17									
0.233	0.19	0.15									
0.242	0.17	0.13									
0.250	0.15	0.11									
0.258	0.13	0.10									
0.267	0.10	0.08									
0.275	0.09	0.06									
0.283	0.07	0.05									
0.300	0.03	0.02									
0.317	0.00	0.00									

SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
SFWMD

Date of Test: 8/31/04
Well ID: Fireworks - Shallow

SLUG TEST



WELL CONSTRUCTION DATA

R casing = 0.08 feet
 R gravel pack = 0.25 feet
 Porosity of the aquifer = 0.25
 Porosity of gravel pack = 0.30
 Effective radius of casing = 0.10 feet (Rc)
 Casing radius for analysis = 0.11 feet (Rw)
 Radius of well for analysis = 0.25 feet
 Casing Stickup = 2.79 feet als
 Depth of water = 5.29 feet btoc
 Depth of well = 25.05 feet btoc
 Depth of aquifer = 50.00 feet bls
 Depth to top of filter pack = 22.55 feet bls
 Length of screen = 2.50 feet
 Length of gravel pack = 4.00 feet
 L (input) = 4.00 feet
 Case = 2

SLUG TEST DATA/RESULTS (Bouwer Rice Method)

L/Rw = 16
 A = 2.02
 B = 0.28
 C = 1.47
 H = 19.76 feet
 ln[(D-H)/Rw] = 4.80
 Ln (Ri/Rw) = 2.91
 R influence = 4.59 feet (Ri)
Line Fit Range and Parameters
 t minimum = > 10 minutes
 t maximum = < 0.20 minutes
 r 2 = 0.996
 Estimated K h = 54 feet/day

SLUG TEST FROM RECOVERY DATA

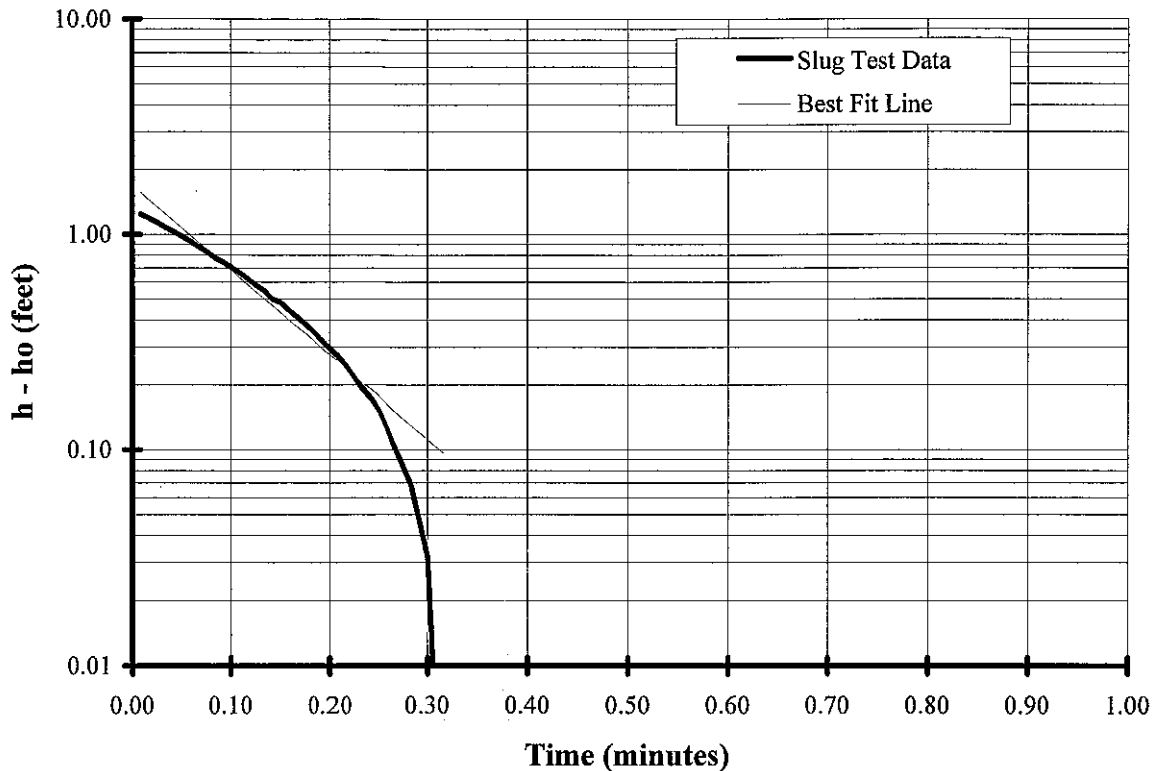
Project: Biscayne Bay Coastal Wetlands			Date of Test: 8/31/04								
SFWMD			Well ID: Fireworks - Shallow								
Incremental Values		H/Ho	Incremental Values		H/Ho	Incremental Values		H/Ho	Incremental Values		H/Ho
Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)	
		(-)			(-)			(-)			(-)
0.000	1.31	1.00									
0.008	1.25	0.95									
0.017	1.20	0.91									
0.025	1.14	0.87									
0.033	1.08	0.83									
0.042	1.03	0.79									
0.050	0.98	0.75									
0.058	0.93	0.71									
0.067	0.88	0.67									
0.075	0.83	0.64									
0.083	0.78	0.60									
0.092	0.75	0.57									
0.100	0.71	0.54									
0.108	0.66	0.51									
0.117	0.63	0.48									
0.125	0.59	0.45									
0.133	0.55	0.42									
0.142	0.50	0.38									
0.150	0.48	0.37									
0.158	0.45	0.34									
0.167	0.42	0.32									
0.175	0.38	0.29									
0.183	0.35	0.27									
0.192	0.32	0.25									
0.200	0.30	0.23									
0.208	0.27	0.20									
0.217	0.24	0.18									
0.225	0.22	0.17									
0.233	0.19	0.15									
0.242	0.17	0.13									
0.250	0.15	0.11									
0.258	0.13	0.10									
0.267	0.10	0.08									
0.275	0.09	0.06									
0.283	0.07	0.05									
0.300	0.03	0.02									
0.317	0.00	0.00									

SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
SFWMD

Date of Test: 8/31/04
Well ID: Fireworks - Shallow

SLUG TEST



WELL CONSTRUCTION DATA

R casing = 0.08 feet
 R gravel pack = 0.25 feet
 Porosity of the aquifer = 0.25
 Porosity of gravel pack = 0.30
 Effective radius of casing = 0.10 feet (Rc)
 Casing radius for analysis = 0.11 feet (Rw)
 Radius of well for analysis = 0.25 feet
 Casing Stickup = 2.79 feet als
 Depth of water = 5.29 feet btoc
 Depth of well = 25.05 feet btoc
 Depth of aquifer = 50.00 feet bls
 Depth to top of filter pack = 22.55 feet bls
 Length of screen = 2.50 feet
 Length of gravel pack = 4.00 feet
 L (input) = 4.00 feet
 Case = 2

SLUG TEST DATA/RESULTS

(Bouwer Rice Method)

L/Rw = 16
 A = 2.02
 B = 0.28
 C = 1.47
 H = 19.76 feet
 ln[(D-H)/Rw] = 4.80
 Ln (Ri/Rw) = 2.91
 R influence = 4.59 feet (Ri)

Line Fit Range and Parameters

t minimum = >0.32 minutes
 t maximum = <0.26 minutes
 r² = 0.976
 Estimated K h = 57 feet/day

SLUG TEST FROM RECOVERY DATA

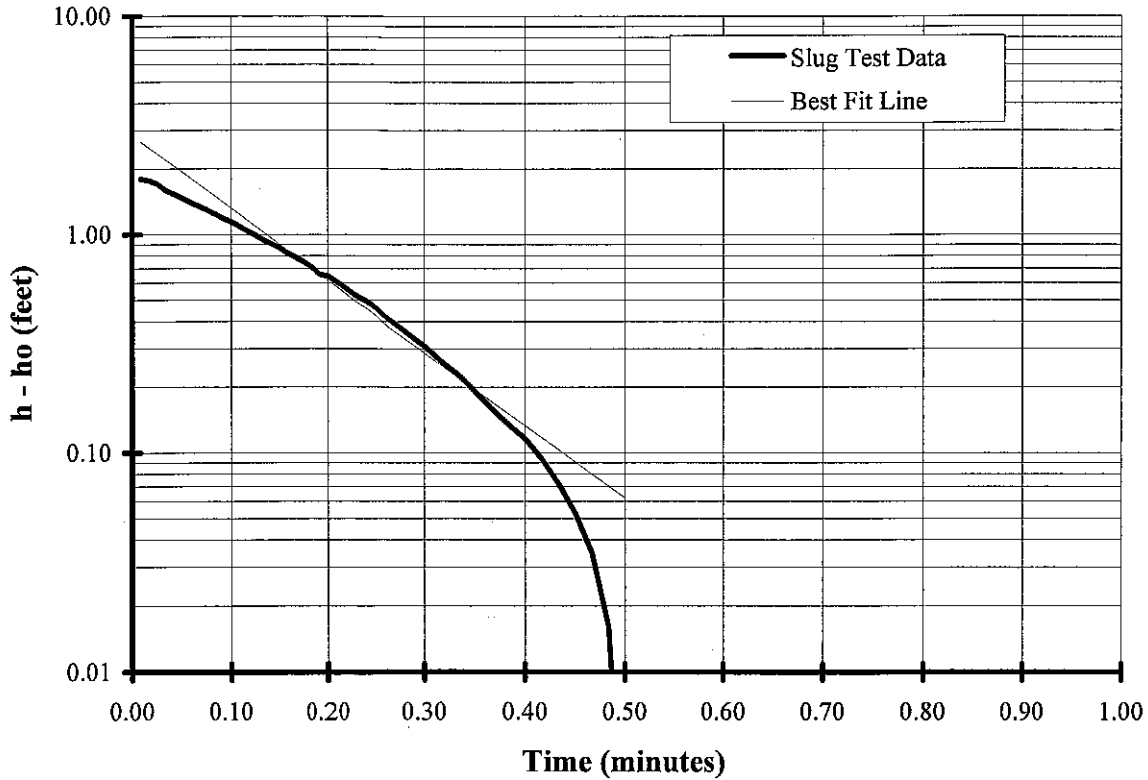
Project: Biscayne Bay Coastal Wetlands			Date of Test: 8/31/04			Well ID: Fireworks - Shallow					
Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)
Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)	
0.000	1.31	1.00									
0.008	1.25	0.95									
0.017	1.20	0.91									
0.025	1.14	0.87									
0.033	1.08	0.83									
0.042	1.03	0.79									
0.050	0.98	0.75									
0.058	0.93	0.71									
0.067	0.88	0.67									
0.075	0.83	0.64									
0.083	0.78	0.60									
0.092	0.75	0.57									
0.100	0.71	0.54									
0.108	0.66	0.51									
0.117	0.63	0.48									
0.125	0.59	0.45									
0.133	0.55	0.42									
0.142	0.50	0.38									
0.150	0.48	0.37									
0.158	0.45	0.34									
0.167	0.42	0.32									
0.175	0.38	0.29									
0.183	0.35	0.27									
0.192	0.32	0.25									
0.200	0.30	0.23									
0.208	0.27	0.20									
0.217	0.24	0.18									
0.225	0.22	0.17									
0.233	0.19	0.15									
0.242	0.17	0.13									
0.250	0.15	0.11									
0.258	0.13	0.10									
0.267	0.10	0.08									
0.275	0.09	0.06									
0.283	0.07	0.05									
0.300	0.03	0.02									
0.317	0.00	0.00									

SFWMD - SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
SFWMD

Test Date: 8/31/04
Well ID: Fireworks-shallow (1)

SLUG TEST



WELL CONSTRUCTION DATA

R casing = 0.08 feet
R gravel pack = 0.25 feet
Porosity of the aquifer = 0.30
Porosity of gravel pack = 0.30
Effective radius of casing = 0.08 feet (Rc)
Casing radius for analysis = 0.11 feet (Rw)
Radius of well for analysis = 0.25 feet
Casing Stickup = 2.79 feet als
Depth of water = 5.29 feet btoc
Depth of well = 25.05 feet btoc
Depth of aquifer = 25.00 feet bls
Depth to top of filter pack = 21.00 feet bls
Length of screen = 2.50 feet
Length of gravel pack = 4.00 feet
L (input) = 4.00 feet
Case = 2

SLUG TEST DATA/RESULTS

(Bouwer Rice Method)
L/Rw = 16
A = 2.02
B = 0.28
C = 1.47
H = 19.76 feet
ln[(D-H)/Rw] = 3.04
Ln (Ri/Rw) = 2.91
R influence = 4.59 feet (Ri)
Line Fit Range and Parameters
t minimum = >1 minutes
t maximum = <0.42 minutes
r 2 = 0.985
Estimated K h = 49 feet/day

SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
 SFWMD

Test Date: 8/31/04
 Well ID: Fireworks-shallow (1)

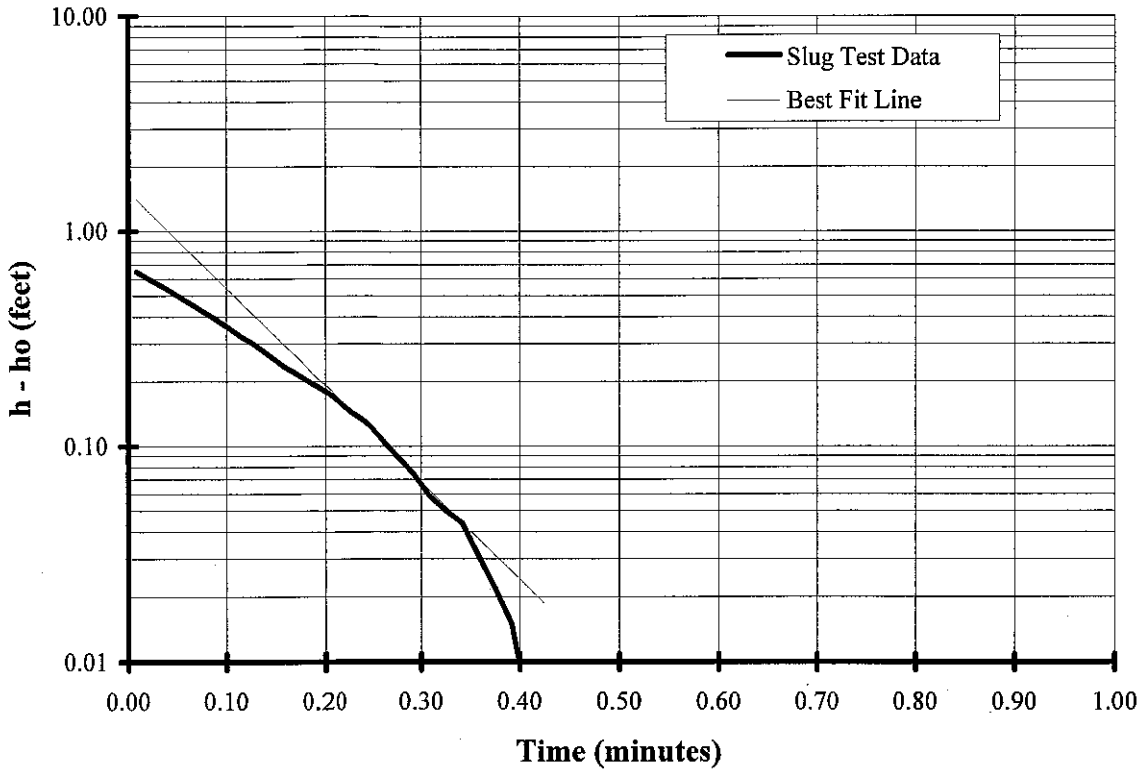
Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)
Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)	
0.000	1.74	0.97	0.450	0.05	0.03						
0.008	1.80	1.00	0.467	0.04	0.02						
0.017	1.77	0.98	0.483	0.02	0.01						
0.025	1.71	0.95	0.500	0.00	0.00						
0.033	1.60	0.89									
0.042	1.53	0.85									
0.050	1.47	0.82									
0.058	1.41	0.78									
0.067	1.36	0.75									
0.075	1.30	0.72									
0.083	1.24	0.69									
0.092	1.19	0.66									
0.100	1.14	0.63									
0.108	1.09	0.61									
0.117	1.04	0.58									
0.125	0.99	0.55									
0.133	0.94	0.52									
0.142	0.91	0.50									
0.150	0.87	0.48									
0.158	0.82	0.46									
0.167	0.79	0.44									
0.175	0.75	0.41									
0.183	0.71	0.39									
0.192	0.66	0.37									
0.200	0.64	0.36									
0.208	0.61	0.34									
0.217	0.58	0.32									
0.225	0.54	0.30									
0.233	0.51	0.28									
0.242	0.48	0.27									
0.250	0.46	0.25									
0.258	0.43	0.24									
0.267	0.40	0.22									
0.275	0.38	0.21									
0.283	0.35	0.20									
0.292	0.33	0.18									
0.300	0.31	0.17									
0.308	0.29	0.16									
0.317	0.26	0.15									
0.325	0.25	0.14									
0.333	0.23	0.13									
0.350	0.19	0.11									
0.367	0.16	0.09									
0.383	0.14	0.08									
0.400	0.12	0.06									
0.417	0.09	0.05									
0.433	0.07	0.04									

SFWMD - SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
SFWMD

Test Date: 8/31/04
Well ID: Fireworks - shallow (2)

SLUG TEST



WELL CONSTRUCTION DATA

R casing = 0.08 feet
 R gravel pack = 0.25 feet
 Porosity of the aquifer = 0.30
 Porosity of gravel pack = 0.30
 Effective radius of casing = 0.08 feet (Rc)
 Casing radius for analysis = 0.11 feet (Rw)
 Radius of well for analysis = 0.25 feet
 Casing Stickup = 2.79 feet als
 Depth of water = 5.29 feet btoc
 Depth of well = 25.05 feet btoc
 Depth of aquifer = 25.00 feet bls
 Depth to top of filter pack = 21.00 feet bls
 Length of screen = 2.50 feet
 Length of gravel pack = 4.00 feet
 L (input) = 4.00 feet
 Case = 2

**SLUG TEST DATA/RESULTS
(Bouwer Rice Method)**

L/Rw = 16
 A = 2.02
 B = 0.28
 C = 1.47
 H = 19.76 feet
 ln[(D-H)/Rw] = 3.04
 Ln (Ri/Rw) = 2.91
 R influence = 4.59 feet (Ri)
Line Fit Range and Parameters
 t minimum = >20 minutes
 t maximum = <0.31 minutes
 r 2 = 0.989
 Estimated K h = 66 feet/day

SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
SFWMMD

Test Date: 8/31/04
Well ID: Fireworks - shallow (2)

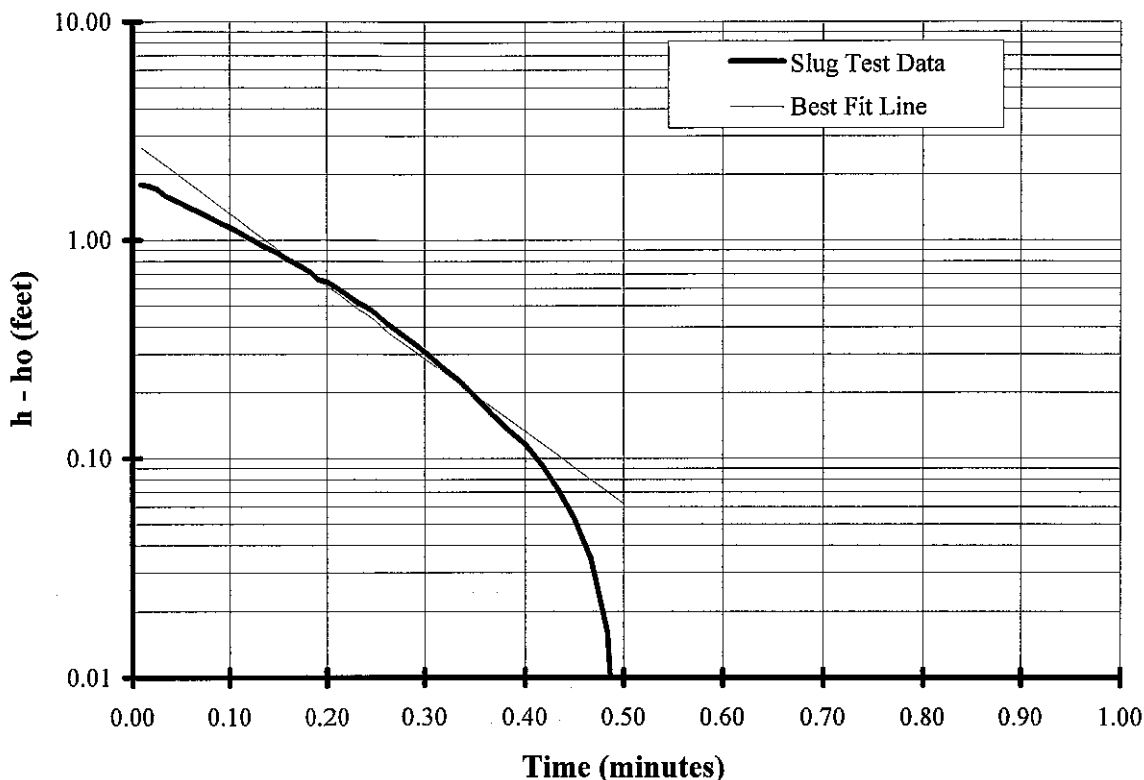
Incremental Values		H/Ho	Incremental Values		H/Ho	Incremental Values		H/Ho	Incremental Values		H/Ho
Time (min)	Head (feet)	(-)	Time (min)	Head (feet)	(-)	Time (min)	Head (feet)	(-)	Time (min)	Head (feet)	(-)
0.000	0.68	1.00									
0.008	0.65	0.95									
0.017	0.62	0.90									
0.025	0.59	0.86									
0.033	0.56	0.82									
0.042	0.53	0.78									
0.050	0.50	0.74									
0.058	0.48	0.70									
0.067	0.45	0.66									
0.075	0.43	0.63									
0.083	0.41	0.59									
0.092	0.38	0.56									
0.100	0.36	0.53									
0.108	0.34	0.50									
0.117	0.32	0.47									
0.125	0.30	0.45									
0.142	0.27	0.39									
0.158	0.24	0.34									
0.175	0.21	0.31									
0.192	0.19	0.28									
0.208	0.17	0.25									
0.225	0.15	0.22									
0.242	0.13	0.19									
0.258	0.11	0.16									
0.275	0.09	0.13									
0.292	0.08	0.11									
0.308	0.06	0.09									
0.325	0.05	0.07									
0.342	0.04	0.06									
0.358	0.03	0.05									
0.375	0.02	0.03									
0.392	0.02	0.02									
0.408	0.01	0.01									
0.425	0.00	0.00									

SFWMD - SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
SFWMD

Test Date: 8/31/04
Well ID: Fireworks-shallow

SLUG TEST



WELL CONSTRUCTION DATA

R casing = 0.08 feet
R gravel pack = 0.25 feet
Porosity of the aquifer = 0.30
Porosity of gravel pack = 0.30
Effective radius of casing = 0.08 feet (Rc)
Casing radius for analysis = 0.11 feet (Rw)
Radius of well for analysis = 0.25 feet
Casing Stickup = 2.79 feet als
Depth of water = 5.29 feet btoc
Depth of well = 25.05 feet btoc
Depth of aquifer = 25.00 feet bls
Depth to top of filter pack = 21.00 feet bls
Length of screen = 2.50 feet
Length of gravel pack = 4.00 feet
L (input) = 4.00 feet
Case = 2

SLUG TEST DATA/RESULTS
(Bouwer Rice Method)

L/Rw = 16
A = 2.02
B = 0.28
C = 1.47
H = 19.76 feet
ln[(D-H)/Rw] = 3.04
Ln (Ri/Rw) = 2.91
R influence = 4.59 feet (Ri)
Line Fit Range and Parameters
t minimum = >1 minutes
t maximum = <0.42 minutes
r 2 = 0.985
Estimated K h = 49 feet/day

SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
 SFWMD

Test Date: 8/31/04
 Well ID: Fireworks-shallow

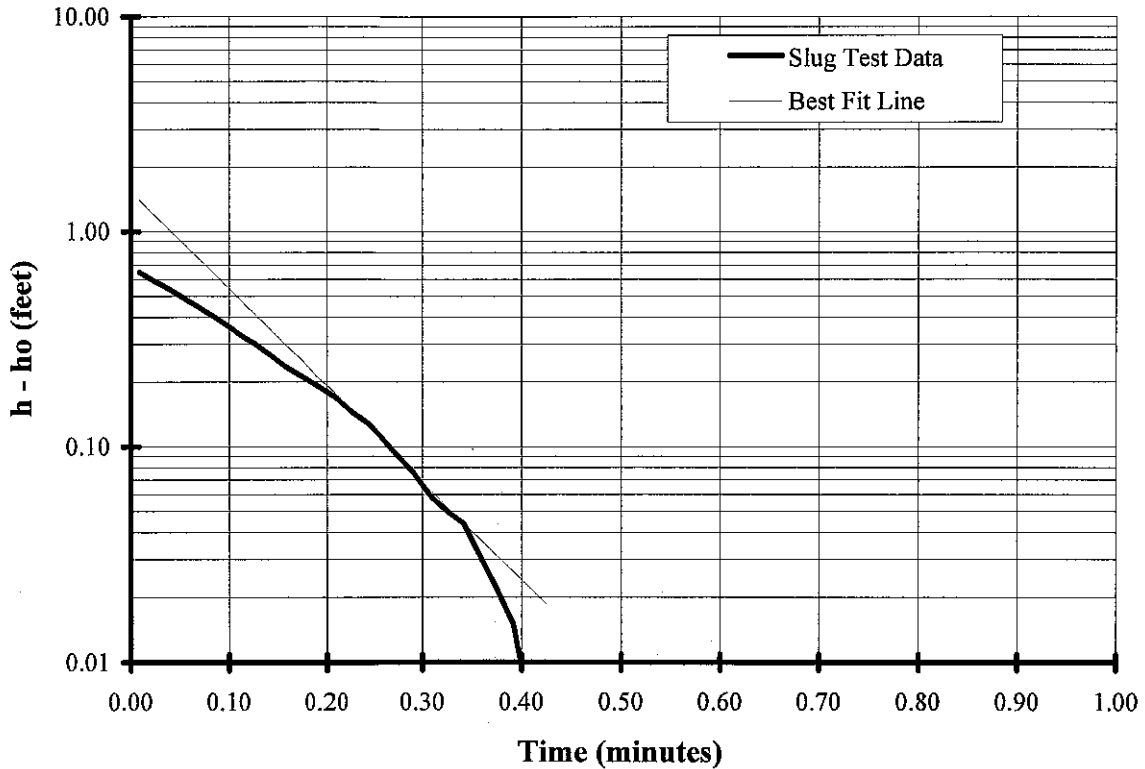
Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)
Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)	
0.000	1.74	0.97	0.450	0.05	0.03						
0.008	1.80	1.00	0.467	0.04	0.02						
0.017	1.77	0.98	0.483	0.02	0.01						
0.025	1.71	0.95	0.500	0.00	0.00						
0.033	1.60	0.89									
0.042	1.53	0.85									
0.050	1.47	0.82									
0.058	1.41	0.78									
0.067	1.36	0.75									
0.075	1.30	0.72									
0.083	1.24	0.69									
0.092	1.19	0.66									
0.100	1.14	0.63									
0.108	1.09	0.61									
0.117	1.04	0.58									
0.125	0.99	0.55									
0.133	0.94	0.52									
0.142	0.91	0.50									
0.150	0.87	0.48									
0.158	0.82	0.46									
0.167	0.79	0.44									
0.175	0.75	0.41									
0.183	0.71	0.39									
0.192	0.66	0.37									
0.200	0.64	0.36									
0.208	0.61	0.34									
0.217	0.58	0.32									
0.225	0.54	0.30									
0.233	0.51	0.28									
0.242	0.48	0.27									
0.250	0.46	0.25									
0.258	0.43	0.24									
0.267	0.40	0.22									
0.275	0.38	0.21									
0.283	0.35	0.20									
0.292	0.33	0.18									
0.300	0.31	0.17									
0.308	0.29	0.16									
0.317	0.26	0.15									
0.325	0.25	0.14									
0.333	0.23	0.13									
0.350	0.19	0.11									
0.367	0.16	0.09									
0.383	0.14	0.08									
0.400	0.12	0.06									
0.417	0.09	0.05									
0.433	0.07	0.04									

SFWMD - SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
SFWMD

Test Date: 8/31/04
Well ID: Fireworks - shallow

SLUG TEST



WELL CONSTRUCTION DATA

R casing = 0.08 feet
 R gravel pack = 0.25 feet
 Porosity of the aquifer = 0.30
 Porosity of gravel pack = 0.30
 Effective radius of casing = 0.08 feet (Rc)
 Casing radius for analysis = 0.11 feet (Rw)
 Radius of well for analysis = 0.25 feet
 Casing Stickup = 2.79 feet als
 Depth of water = 5.29 feet btoc
 Depth of well = 25.05 feet btoc
 Depth of aquifer = 25.00 feet bls
 Depth to top of filter pack = 21.00 feet bls
 Length of screen = 2.50 feet
 Length of gravel pack = 4.00 feet
 L (input) = 4.00 feet
 Case = 2

**SLUG TEST DATA/RESULTS
(Bouwer Rice Method)**

L/Rw = 16
 A = 2.02
 B = 0.28
 C = 1.47
 H = 19.76 feet
 ln[(D-H)/Rw] = 3.04
 Ln (Ri/Rw) = 2.91
 R influence = 4.59 feet (Ri)
Line Fit Range and Parameters
 t minimum = >20 minutes
 t maximum = <0.31 minutes
 r² = 0.989
 Estimated K h = 66 feet/day

SLUG TEST FROM RECOVERY DATA

Project: Biscayne Bay Coastal Wetlands
SFWMD

Test Date: 8/31/04
Well ID: Fireworks - shallow

Incremental Values		H/Ho	Incremental Values		H/Ho	Incremental Values		H/Ho	Incremental Values		H/Ho
Time (min)	Head (feet)	(-)	Time (min)	Head (feet)	(-)	Time (min)	Head (feet)	(-)	Time (min)	Head (feet)	(-)
0.000	0.68	1.00									
0.008	0.65	0.95									
0.017	0.62	0.90									
0.025	0.59	0.86									
0.033	0.56	0.82									
0.042	0.53	0.78									
0.050	0.50	0.74									
0.058	0.48	0.70									
0.067	0.45	0.66									
0.075	0.43	0.63									
0.083	0.41	0.59									
0.092	0.38	0.56									
0.100	0.36	0.53									
0.108	0.34	0.50									
0.117	0.32	0.47									
0.125	0.30	0.45									
0.142	0.27	0.39									
0.158	0.24	0.34									
0.175	0.21	0.31									
0.192	0.19	0.28									
0.208	0.17	0.25									
0.225	0.15	0.22									
0.242	0.13	0.19									
0.258	0.11	0.16									
0.275	0.09	0.13									
0.292	0.08	0.11									
0.308	0.06	0.09									
0.325	0.05	0.07									
0.342	0.04	0.06									
0.358	0.03	0.05									
0.375	0.02	0.03									
0.392	0.02	0.02									
0.408	0.01	0.01									
0.425	0.00	0.00									