



**USUAL OPEN - HOLE TEST EVALUATION
SOUTH FLORIDA WATER MANAGEMENT METHOD**

Client:	SFWMD	Test No.:	W-20	Date:	08/19/13
Project:	C-139 Annex Restoration	Well Depth:	10.0 Feet	Analyst:	JO
Job No.:	7111-13-142	Location:	Hendry County		

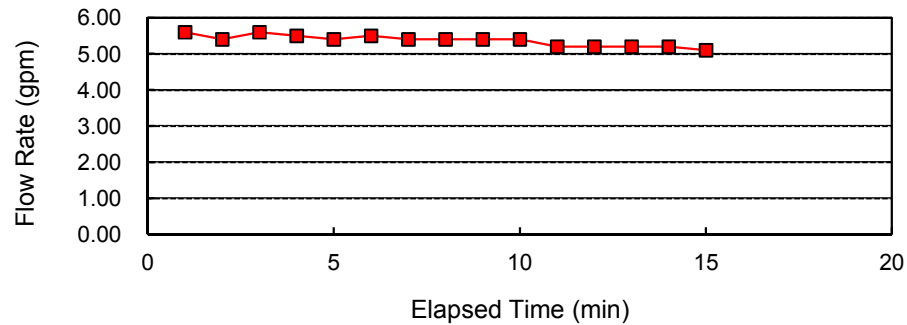
Elapsed Time (min)	Reading	Flow Rate (gpm)	Equation for K Value: $\frac{4Q}{\pi \cdot d(2H_2^2 + 4H_2D_s + H_2d)}$	Soil Profile
0	0.00	0.00		
1	5.60	5.60		7'-18' Sand with trace shell and limestone fragments
2	11.00	5.40	k = 3.43E-04 CF/S/Ft ² - Ft Head	18'-25' Sand, Slightly silty with trace of shells (SP)
3	16.60	5.60	H ₂ = 2.50 Ft Hydraulic Head	
4	22.10	5.50		
5	27.50	5.40		
6	33.00	5.50		
7	38.40	5.40		
8	43.80	5.40		
9	49.20	5.40		
10	54.60	5.40		
11	59.80	5.20		
12	65.0	5.20		
13	70.2	5.20		
14	75.4	5.20		
15	80.5	5.10		
Constant Flow Rate (gpm)			5.37	

Where:

Hydraulic Conductivity

K= 3.43E-04 CF/S/Ft² - Ft Head

Flow Rate vs Elapsed Time



Ds= 7.5 ft
d= 0.5 ft
GWT= 2.50 ft



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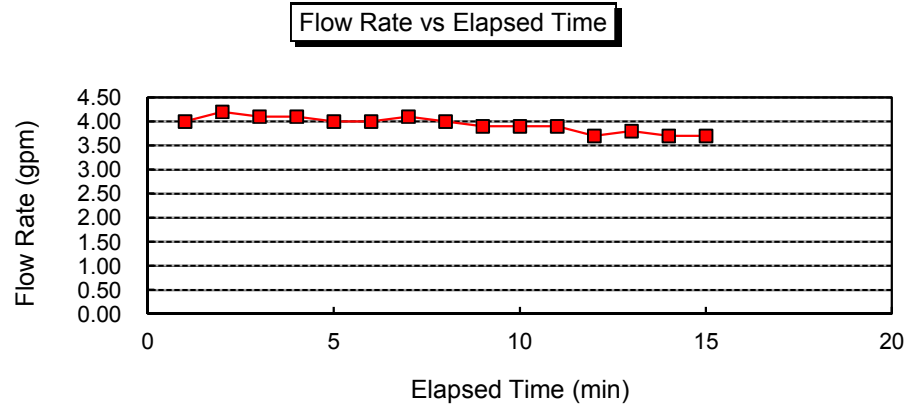
Client:	<u>SFWMD</u>	Test No.:	<u>W-20</u>	Date:	<u>08/19/13</u>
Project:	<u>C-139 Annex Restoration</u>	Well Depth:	<u>15.0</u> Feet	Analyst:	<u>JO</u>
Job No.:	<u>7111-13-142</u>	Location:	<u>Hendry County</u>		

Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	4.00	4.00
2	8.20	4.20
3	12.30	4.10
4	16.40	4.10
5	20.40	4.00
6	24.40	4.00
7	28.50	4.10
8	32.50	4.00
9	36.40	3.90
10	40.30	3.90
11	44.20	3.90
12	47.9	3.70
13	51.7	3.80
14	55.4	3.70
15	59.1	3.70
Constant Flow Rate (gpm)		3.94

Equation for K Value:	$\frac{4Q}{\pi*d(4H2Ds + H2d)}$	Soil Profile
k =	4.36E-04 CF/S/Ft ² - Ft Head	0-7' Sand (SP)
H ₂ =	2.50 Ft Hydraulic Head	7'-18' Sand with trace shell and limestone fragments
		18'-25' Sand, Slightly silty with trace of shells (SP)

Where: **Hydraulic Conductivity**

K= 4.36E-04 CF/S/Ft² - Ft Head



Ds= 5 ft
 d= 0.5 ft
 GWT= 2.50 ft



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Client:	SFWMD	Test No.:	W-20	Date:	08/19/13
Project:	C-139 Annex Restoration	Well Depth:	25.0 Feet	Analyst:	JO
Job No.:	7111-13-142	Location:	Hendry County		

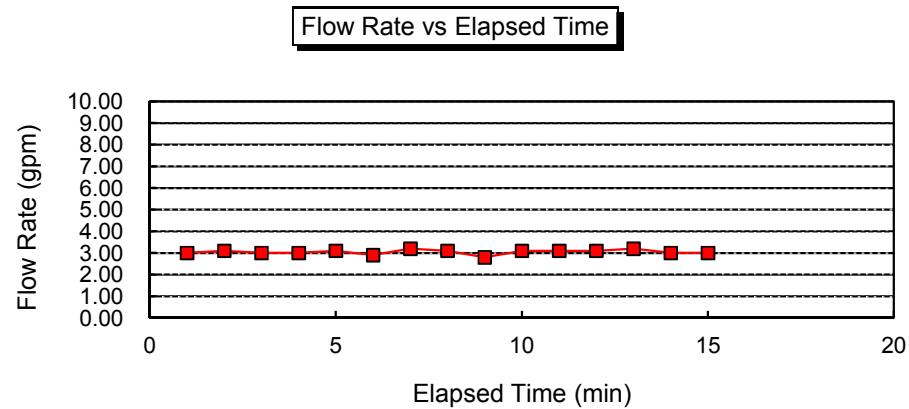
Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	3.00	3.00
2	6.10	3.10
3	9.10	3.00
4	12.10	3.00
5	15.20	3.10
6	18.10	2.90
7	21.30	3.20
8	24.40	3.10
9	27.20	2.80
10	30.30	3.10
11	33.40	3.10
12	36.5	3.10
13	39.7	3.20
14	42.7	3.00
15	45.7	3.00
Constant Flow Rate (gpm)		3.05

Equation for K Value: $\frac{4Q}{\pi \cdot d (4H_2D_s + H_2d)}$

Soil Profile
 0-7' Sand (SP)
 7'-18' Sand with trace shell and limestone fragments
 18'-25' Sand, Slightly silty with trace of shells (SP)

k = 1.07E-04 CF/S/Ft² - Ft Head
 H₂ = 4.00 Ft Hydraulic Head

Where: **Hydraulic Conductivity**
K = 1.07E-04 CF/S/Ft² - Ft Head



Ds= 10 ft
 d= 0.5 ft
 GWT= 4.00 ft