

# NELCO

## TESTING AND ENGINEERING SERVICES

### PERCOLATION TEST REPORT

CLIENT: Kimley-Horn  
 2151 Le Jeune Road, Suite 202  
 Coral Gables, Florida 33134

DATE: February 28, 2017  
 JOB No.: P-170367


<b>Project:</b>	Fern-Isle Redevelopment Project
<b>Location:</b>	2300 NW 14 Street, Miami, Florida

PERCOLATION TEST RESULTS		
Test Number (No) (u)	1	SOIL CONDITIONS
Test Hole Diameter (d) (ft)	0.5	0.0' - 5.0': Sand with some gravel
Depth to Water Table (H <sub>2</sub> ) (ft)	6	5.0' - 10.0': Sandy limestone
Saturated Depth (D <sub>s</sub> ) (ft)	9	10.0' - 15.0': Sand with some gravel
"Stabilized" Flow Rate (Q) (c.f.s.)	3.62E-02	
Hydraulic Conductivity (K)	3.17E-04	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004) " Usual Open-Hole Test"

Comments: **Please note:** "Soil Conditions" listed above are representative of material encountered in test hole only.  
In no way whatsoever shall any assumptions of soil conditions outside the test hole area be made based on the soil conditions outlined in this report.

  
**V.M.B. Venkatesan**  
 Professional Engineer No. 63107  
 State of Florida

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PERCOLATION TEST RESULTS		
Test Number (No) (u)	2	SOIL CONDITIONS
Test Hole Diameter (d) (ft)	0.5	0.0' - 4.0': Sand with some gravel
Depth to Water Table (H <sub>2</sub> ) (ft)	6.25	4.0' - 15.0': Sandy limestone
Saturated Depth (D <sub>s</sub> ) (ft)	8.75	
"Stabilized" Flow Rate (Q) (c.f.s.)	4.06E-02	
Hydraulic Conductivity (K)	3.45E-04	


$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

**Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004) " Usual Open-Hole Test"**

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 V.M.B. Venkatesan 3/14/17  
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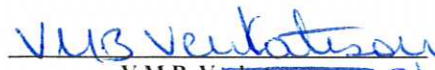
<b>Project:</b>	Fern-Isle Redevelopment Project
<b>Location:</b>	2300 NW 14 Street, Miami, Florida

PERCOLATION TEST RESULTS		
Test Number (No) (u)	3	SOIL CONDITIONS
Test Hole Diameter (d) (ft)	0.5	0.0' - 5.0': Sand with some gravel
Depth to Water Table (H <sub>2</sub> ) (ft)	4.25	5.0' - 13.0': Sandy limestone
Saturated Depth (D <sub>s</sub> ) (ft)	10.75	13.0' - 15.0': Sand with some gravel
"Stabilized" Flow Rate (Q) (c.f.s.)	<b>5.08E-02</b>	
Hydraulic Conductivity (K)	<b>5.85E-04</b>	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

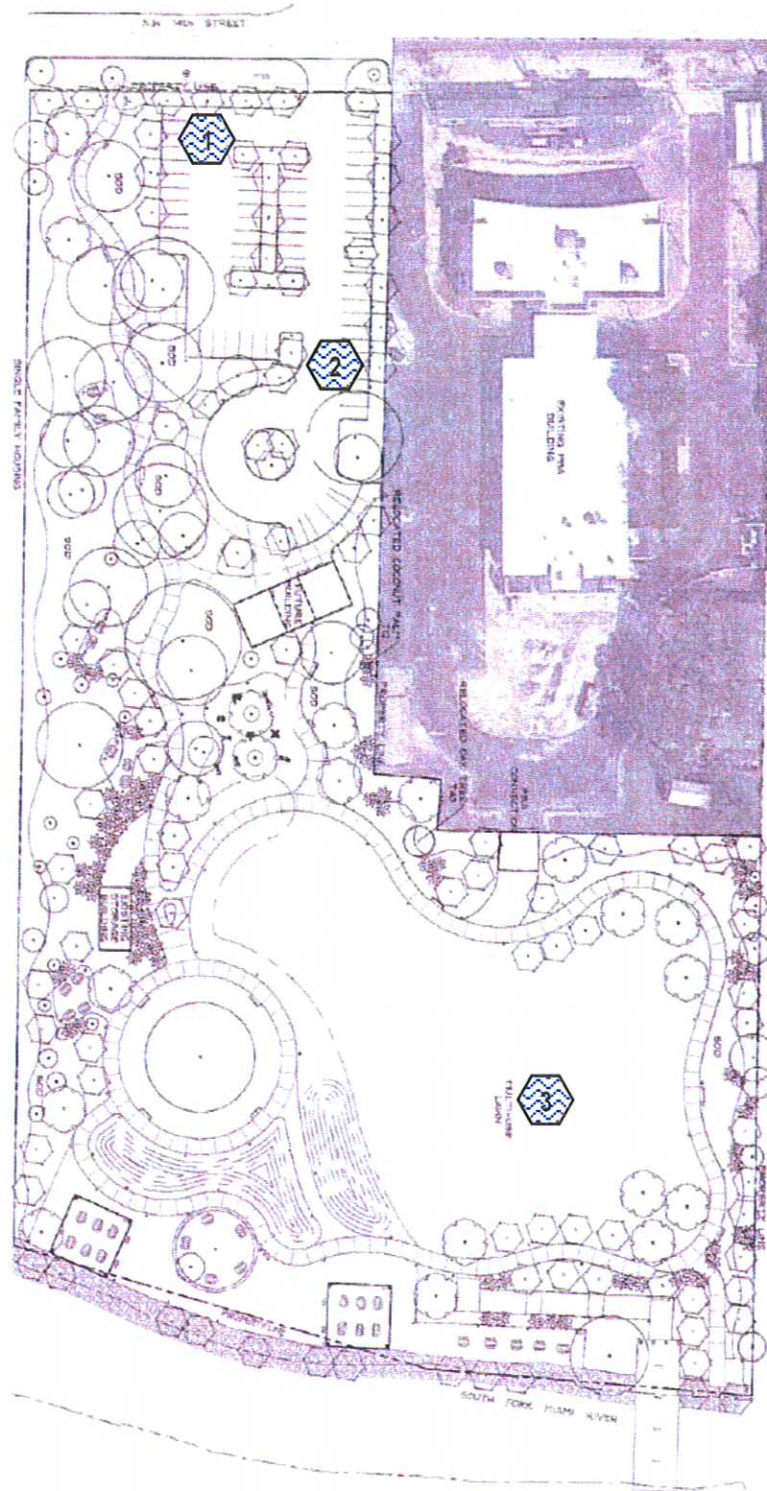
**Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004) " Usual Open-Hole Test"**

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Soil Percolation Test Location Sketch



Percolation Test Locations