



CVIII ENGINEERING GROUP, INC.

GEOTECHNICAL, STRUCTURAL & TRANSPORTATION ENGINEERING

PERCOLATION TEST REPORT

(USUAL OPEN HOLE TEST - CONSTANT HEAD)

CLIENT: ORLANDO CASTRO

9039 WEST SUNRISE BLVD

PLANTATION, FL 33322

DATE: OCTOBER 27, 2021

ORDER#: 21-1027-B

PERC#: P2

PROJECT NAME: PROPOSED NEW DRAINAGE

PROJECT LOCATION: 1371 NE 27 WAY, POMPANO BEACH, FL 33061

CALCULATION OF HYDRAULIC CONDUCTIVITY (K-VALUE)

ELAPSED TIME (MIN)	WATER (GAL)	WATER TABLE (FT)	FIELD DATA INFO & PARAMETERS:	
0	0.0	3.00	TOTAL DEPTH BORE HOLE (FT)	15.00
1	5.0	3.00	HOLE DIAMETER OR PERFORATED CASING DIAMETER (FT)	0.50
2	5.0	3.00	DEPTH OF WATER TABLE BELOW GROUND SURFACE (FT)	3.00
3	5.0	3.00	SATURATED HOLE DEPTH (FT)	12.00
4	5.0	3.00	AVERAGE FLOW RATE AT CONSTANT DEPTH (GAL/MIN)	5.00
5	5.0	3.00	BORE HOLE PURGED	YES
6	5.0	3.00	EFFECTIVE CONSTANT HEAD DURING PUMP (FT ABOVE W.T)	3.00
7	5.0	3.00	STABILIZED FLOW RATE AT CONSTANT HEAD (CFS)	0.0111
8	5.0	3.00	K-VALUE 1.73533E-04 CFS/FT^2 - FT OF HEAD	
9	5.0	3.00		
10	5.0	0.00		

SUB-SURFACE INVESTIGATION

DEPTH BELOW GROUND SURFACE	SOIL DESCRIPTION
0'0" TO 3'6"	BROWN SAND
3'6" TO 5'0"	LIGHT BROWN SAND SUGAR
5'0" TO 8'0"	DARK BROWN SAND
8'0" TO 15'0"	GRAY SUGAR SAND

REMARKS: THE ABOVE TEST WAS PERFORMED AND CALCULATED AS PRESENTED IN THE MANUAL "DESIGN OF EXFILTRATION TRENCH TO MEET SFWMD REGULATORY CRITERIA & FDOT CRITERIA"

PERC TEST LOCATION SITE PLAN



RAW DATA CALCULATION TABLE		
DEEP OF WATER TABLE (H2)	(H2)	3.00
SATURATED HOLE DEPTH (DS)	(DS)	12.00
DIAMETER OF TEST HOLE (D)	(D)	0.50
STABILIZED FLOW RATE (CFS)	SFR-(CFS)	0.0111
FORMULA	A	0.044566667
FORMULA	B	1.570759633
FORMULA	C	163.5
FORMULA	D	0.028372684
FORMULA = A/(B*C)	K	0.000173533
FORMULA = (D)/(C)	K - CHECK	0.000173533

RESPECTFULLY SUBMITTED

CVIII ENGINEERING GROUP, INC.

DANIEL MORAO, P.E.

PROFESSIONAL ENGINEER NO. 87771

STATE OF FLORIDA

Digitally signed

by Daniel Morao

Date:

2021.10.26

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CVIII ENGINEERING GROUP, INC.

GEOTECHNICAL, STRUCTURAL & TRANSPORTATION ENGINEERING

PERCOLATION TEST REPORT

(USUAL OPEN HOLE TEST - CONSTANT HEAD)

CLIENT: ORLANDO CASTRO

9039 WEST SUNRISE BLVD

PLANTATION, FL 33322

DATE: OCTOBER 27, 2021

ORDER#: 21-1027-A

PERC#: P1

PROJECT NAME: PROPOSED NEW DRAINAGE

PROJECT LOCATION: 2716 NE 14 STREET. POMPANO BEACH, FL 33061

CALCULATION OF HYDRAULIC CONDUCTIVITY (K-VALUE)

ELAPSED TIME (MIN)	WATER (GAL)	WATER TABLE (FT)	FIELD DATA INFO & PARAMETERS:	
0	0.0	3.00	TOTAL DEPTH BORE HOLE (FT)	15.00
1	5.5	3.00	HOLE DIAMETER OR PERFORATED CASING DIAMETER (FT)	0.50
2	5.5	3.00	DEPTH OF WATER TABLE BELOW GROUND SURFACE (FT)	3.00
3	5.5	3.00	SATURATED HOLE DEPTH (FT)	12.00
4	5.5	3.00	AVERAGE FLOW RATE AT CONSTANT DEPTH (GAL/MIN)	5.50
5	5.5	3.00	BORE HOLE PURGED	YES
6	5.5	3.00	EFFECTIVE CONSTANT HEAD DURING PUMP (FT ABOVE W.T)	3.00
7	5.5	3.00	STABILIZED FLOW RATE AT CONSTANT HEAD (CFS)	0.0123
8	5.5	3.00	K-VALUE 1.90887E-04 CFS/FT^2 - FT OF HEAD	
9	5.5	3.00		
10	5.5	0.00		

SUB-SURFACE INVESTIGATION

DEPTH BELOW GROUND SURFACE	SOIL DESCRIPTION
0'0" TO 3'6"	LIGHT BROWN SAND
3'6" TO 5'0"	LIGHT BROWN SAND SUGAR
5'0" TO 8'0"	DARK BROWN SAND
8'0" TO 15'0"	GRAY SUGAR SAND

REMARKS: THE ABOVE TEST WAS PERFORMED AND CALCULATED AS PRESENTED IN THE MANUAL "DESIGN OF EXFILTRATION TRENCH TO MEET SFWMD REGULATORY CRITERIA & FDOT CRITERIA"

PERC TEST LOCATION SITE PLAN



RAW DATA CALCULATION TABLE		
DEEP OF WATER TABLE (H2)	(H2)	3.00
SATURATED HOLE DEPTH (DS)	(DS)	12.00
DIAMETER OF TEST HOLE (D)	(D)	0.50
STABILIZED FLOW RATE (CFS)	SFR-(CFS)	0.0123
FORMULA	A	0.049023333
FORMULA	B	1.570759633
FORMULA	C	163.5
FORMULA	D	0.031209952
FORMULA = A/(B*C)	K	0.000190887
FORMULA = (D)/(C)	K - CHECK	0.000190887

RESPECTFULLY SUBMITTED

CVIII ENGINEERING GROUP, INC.

DANIEL MORAO, P.E.

PROFESSIONAL ENGINEER NO. 87771

STATE OF FLORIDA

by Daniel Morao

Date: 2021.10.26

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