

**MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS MATERIALS
USING A FLEXIBLE WALL PERMEAMETER
ASTM D 5084 - 03 METHOD C TEST WITH INCREASING TAILWATER LEVEL
FLUID: DEAIRED TAP WATER WITH 0.005 N CaSO₄**

PROJECT NAME: GeoPro, Inc. - 2015 Laboratory Testing	PROJECT NUMBER: 02156304.0001
LOCATION:	DATE: 3/4/2015
SAMPLE ID: GeoPro's CG Plus 40	PANEL IDENTIFICATION: Lenexa Perm Board
SAMPLE DESCR.: Sample tested after a 28 day moist curing period.	BURETTE AREA: 0.312 cm ² BURETTE INCREMENT LENGTH: 1.000 cm VOLUME PER INCREMENT: 0.312 cm ³

INITIAL				ADDITIONAL DATA			
MOISTURE%	DENSITY			SPECIFIC GRAVITY:	2.70	RECOMPACTED?:	YES
W & T, g	WET WT, g	88.1		SPECIFIC GRAVITY: ASSUMED		PROCTOR, pcf:	NA
D & T, g	DIA, in	2.421	6.15	POROSITY, %:	NA	OPTIMUM, %:	NA
T, g	HT, in	0.994	2.52	SATURATION, %:	NA	COMPACTION, %:	NA
	AREA		29.70	VOID RATIO:	NA	OVER OPTIMUM, %:	NA
MOIST-URE, %	DENSITY:	73.3	PCF WET				
	DENSITY:	NA	PCF DRY				

SATURATION:	LATERAL PRESS.: 104.0 psi	BACK PRESSURE (=UPPER=LOWER): 100.0 psi	
DURING TEST:	LATERAL PRESS.: 104.0 psi	H2: 100.0 psi	H1: 100.0 psi
	BIAS PRESSURE (=H1-H2) 0.0 psi		

H1 VALUE	H2 VALUE	ELAPSED TIME, min	DELTA H, cm	Ln H1/H2	HYD CON k, cm/sec	OUT FLOW cm ³	IN FLOW cm ³	OUT/IN RATIO	HYD GRAD	% FROM MEAN k	TEMP. C	TEMP. CORR.:
9.1	63.8	0.00	54.7									
9.4	63.5	151.00	54.1	0.011030	1.46E-08	0.09	0.09	1.00	21.4	10	24.4	0.902
11.0	62.2	995.00	51.2	0.055095	1.34E-08	0.50	0.41	1.23	20.3	1	23.1	0.929
11.4	61.8	1300.00	50.4	0.015748	1.03E-08	0.12	0.12	1.00	20.0	23	24.5	0.899
11.7	61.5	1460.00	49.8	0.011976	1.48E-08	0.09	0.09	1.00	19.7	12	24.7	0.895

HYDRAULIC CONDUCTIVITY (k₂₀) = **AVERAGE 1.3E-08 cm/sec**

MAXIMUM	1.0E-03 TO 1.0E-04	2	0.75<	30	% < 25 AT
HYDRAULIC GRADIENT	1.0E-04 TO 1.0E-05	5	RATIO	MAX	> 1.0E-8
	1.0E-05 TO 1.0E-06	10	<1.25	HYDRAULIC GRADIENT	OR
	1.0E-06 TO 1.0E-07	20		% < 50 AT	
	less than 1.0E-07	30		ALLOWED	< 1.0E-8

