

**MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS MATERIALS
USING A FLEXIBLE WALL PERMEAMETER
ASTM D 5084 - 16, METHOD C**

FLUID: DEAIRED DISTILLED WATER WITH 0.01 M CaCL2

DATE: 7/15/2025
PROJECT NUMBER: 02211341
PROJECT NAME: GeoPro, Inc
LOCATION: NA
SAMPLE ID: TG 40
SAMPLE DESCRIPTION: Sample Prepared by Geo Pro, Inc



15620 W. 113th Street
Lenexa, Kansas 66219
(913) 492-7777

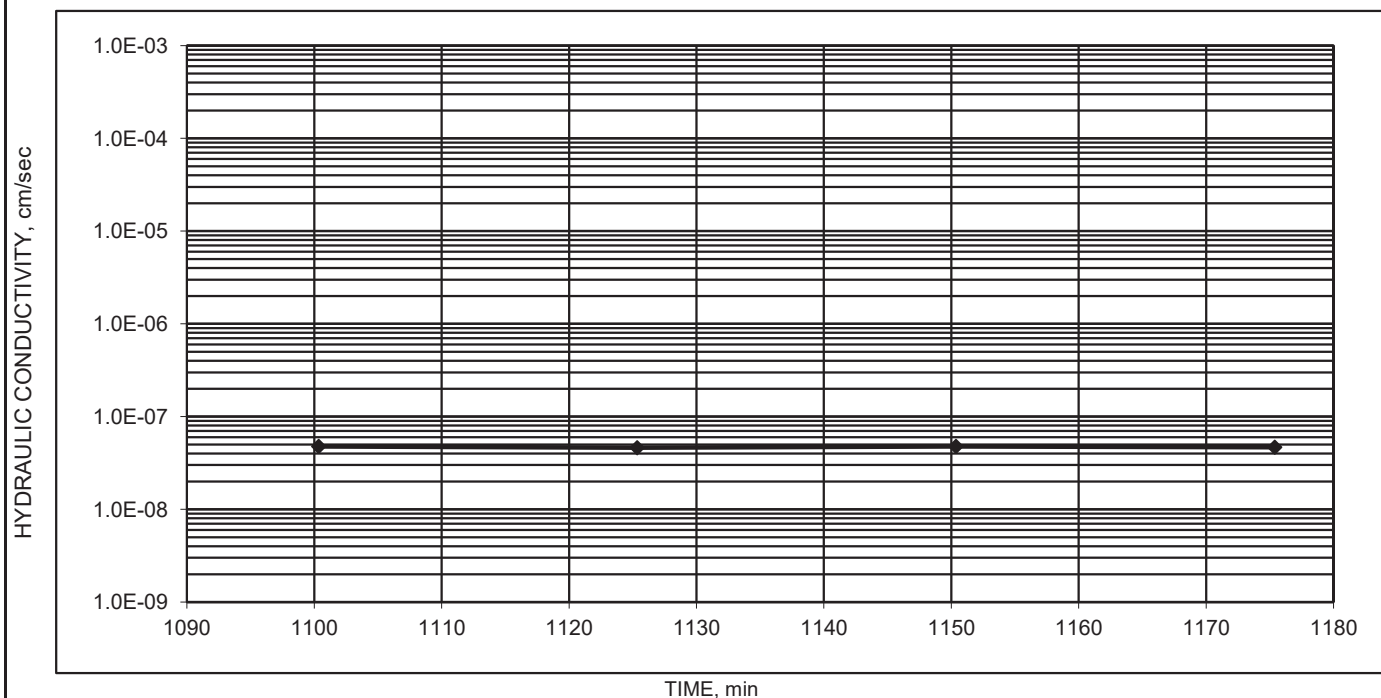
SAMPLE DATA

	INITIAL		ADDITIONAL DATA	
Moisture %:	NA		Sample Recompacted?	NA
Wet Unit Weight, pcf	78.7		Maximum Dry Density, pcf:	NA
Dry Unit Weight, pcf	NA		Optimum Moisture Content, %:	NA
Height, in.	0.99		Compaction, %:	NA
Diameter, in.	2.43		Over Optimum Moisture Content, %:	NA
Saturation, %:	NA		Specific Gravity:	NA
Void Ratio	NA		SG Assumed or Tested	NA
Porosity	NA		B-Value Parameter After Saturation:	96

PERMEATION DATA

Elapsed Time (min.)	Cell Pressure (psi)	Bottom Pressure (psi)	Top Pressure (psi)	Cell Volume (ml)	Bottom Volume (ml)	Top Volume (ml)	In Flow (ml/min.)	Out Flow (ml/min.)	Flow Ratio	Pressure Diff. (psi)	Gradient	k Value cm/sec
1100	64.04	60.54	59.62	0.153	3.914	-3.619	0.00244	0.00218	0.90	0.97	27.2	4.8E-08
1125	64.04	60.54	59.60	0.182	3.975	-3.679	0.00247	0.00207	0.84	0.99	27.5	4.6E-08
1150	64.04	60.54	59.61	0.182	4.035	-3.735	0.00243	0.00221	0.91	0.98	27.2	4.8E-08
1175	64.05	60.54	59.61	0.201	4.096	-3.786	0.00249	0.00207	0.83	0.98	27.2	4.7E-08

HYDRAULIC CONDUCTIVITY (k20), CM/SEC : **4.7E-08**



**MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF SATURATED POROUS MATERIALS
USING A FLEXIBLE WALL PERMEAMETER
ASTM D 5084 - 16, METHOD C**

FLUID: DEAIRED DISTILLED WATER WITH 0.01 M CaCL2

DATE: 7/15/2025
PROJECT NUMBER: 02211341
PROJECT NAME: GeoPro, Inc
LOCATION: NA
SAMPLE ID: TG 160
SAMPLE DESCRIPTION: Sample Prepared by Geo Pro, Inc



15620 W. 113th Street
Lenexa, Kansas 66219
(913) 492-7777

SAMPLE DATA

	INITIAL		ADDITIONAL DATA	
Moisture %:	NA		Sample Recompacted?	NA
Wet Unit Weight, pcf	77.3		Maximum Dry Density, pcf:	NA
Dry Unit Weight, pcf	NA		Optimum Moisture Content, %:	NA
Height, in.	0.99		Compaction, %:	NA
Diameter, in.	2.43		Over Optimum Moisture Content, %:	NA
Saturation, %:	NA		Specific Gravity:	NA
Void Ratio	NA		SG Assumed or Tested	NA
Porosity	NA		B-Value Parameter After Saturation:	95

PERMEATION DATA

Elapsed Time (min.)	Cell Pressure (psi)	Bottom Pressure (psi)	Top Pressure (psi)	Cell Volume (ml)	Bottom Volume (ml)	Top Volume (ml)	In Flow (ml/min.)	Out Flow (ml/min.)	Flow Ratio	Pressure Diff. (psi)	Gradient	k Value cm/sec
1100	64.02	60.49	59.40	0.145	2.757	-2.594	0.00174	0.00150	0.86	0.99	27.5	3.3E-08
1125	64.02	60.49	59.41	0.173	2.798	-2.633	0.00166	0.00155	0.93	0.98	27.4	3.3E-08
1150	64.02	60.49	59.40	0.165	2.840	-2.674	0.00166	0.00169	1.02	0.98	27.5	3.4E-08
1175	64.03	60.49	59.40	0.188	2.882	-2.713	0.00160	0.00156	0.98	0.98	27.4	3.2E-08

HYDRAULIC CONDUCTIVITY (k20), CM/SEC : **3.3E-08**

