

Determination of Permeability in a Triaxial Cell

Sample No: Sample 1

Description:
Firm brown CLAY**SPECIMEN DETAILS**

Depth within original sample	n/a
Orientation within original	n/a
Specimen preparation	Remoulded at as received moisture content using a 2.5kg compactive effort.

TEST DETAILS

Cell Preparation	Performed in accordance with Clause 3.5		
		INITIAL	FINAL
Diameter	mm	104.4	104.1
Height	mm	116.5	116.1
Moisture Content	%	18	19
Bulk Density	Mg/m ³	2.13	2.16
Dry Density	Mg/m ³	1.80	1.82

SATURATION STAGE

Saturation initially by constant moisture content, followed by back-pressure assistance using 5-10 kPa differential

'B' value	0.69	1.00
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CONSOLIDATION STAGE

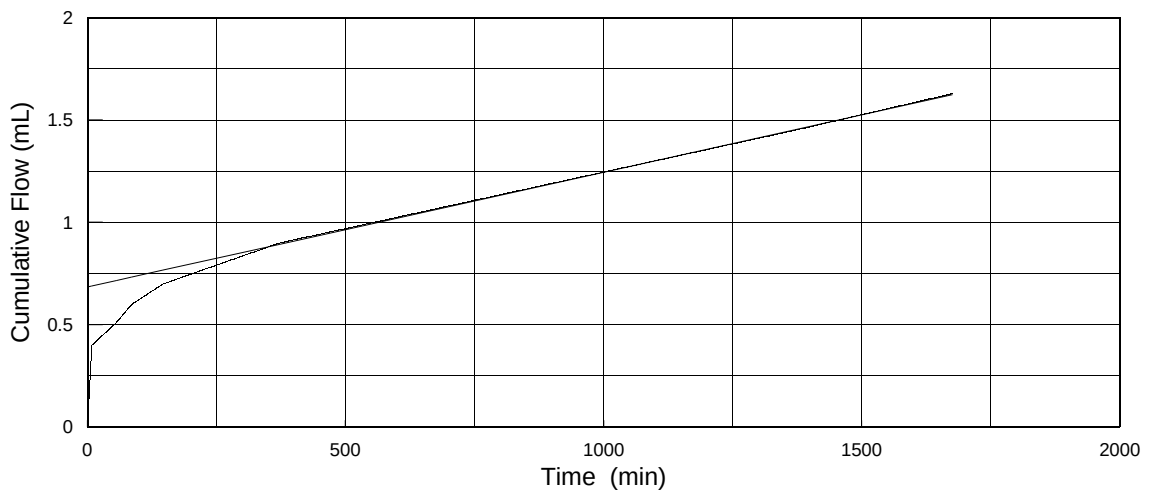
Effective pressure	kPa	50
Volume change	mL	9.1

PERMEABILITY STAGE

Pressure difference across specimen	20
Hydraulic gradient	17.6
Mean effective stress	<i>kPa</i> 40

TEST DURATIONS

Saturation	days	7
Consolidation	days	2
Flow	days	2

RESULTCoefficient of Permeability
 k_v at 20°C = 6.3×10^{-11} m/sChecked and
Approved

Initials:

RJP

Date:
03/03/13

Project Number:

GEO / 20790

Project Name:

SOIL TEST**GEOLABS®**