



NCGRT Centrifuge Permeameter Facility



Core Submission Form – Permeability Testing of Rock & Sediment

Centrifuge permeameter testing of permeability uses a Broadbent G-18 geotechnical centrifuge and a method similar to ASTM D6527-2000. Duplicate core samples of 65-100 mm diameter and 50 to 200 mm length are required for simultaneous testing at either end of the beam. Samples are resin sealed in acrylic liners. Influent for testing (at least 2 litres) should be provided from a similar depth to the core sample. Alternatively, synthesized water or deionized water can be used, although this may affect the permeability. Depending on depth and consolidation state of the sample, permeabilities in the range of 10^{-6} to 10^{-12} m/s should be possible with the standard centrifuge steady-state flow method.

NCGRT Internal Research ? Yes No

Organisation	
Contact Name	
Email	
Phone	
Fax	
Mailing address	

Project & potential publications?	
Sample location	
Sediment or rock?	
Moisture content estimate?	
Permeability estimate?	
Drill coring method?	
Core diameter?	
How has the core been preserved and stored?	
Influent for testing?	



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No.	Sample ID	Depth in-situ (m below surface)	Sample length (mm)	Comments
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				