

Our Ref: BEK/23012/230209/FT&C

09 February 2023

F Talbot and Co
Lower Alston Farm
Riverside
Ribchester
Preston
Lancashire
PR3 3XS

Parsonage Farm, Ribchester – Site Investigation Factual Report

BEK Enviro (BEK) has been commissioned to provide information on ground conditions in the vicinity of a proposed slurry pit. In total three trial pits were excavated to a maximum depth of 2.7 m below ground level. The approximate location of the proposed slurry pit is shown on the figure below.



Figure 1: Location of Proposed Slurry Pit and Parsonage Farm building

Trial pits were excavated in the location of the proposed slurry lagoon to approximate depths of 4 m below ground level.



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

bEk Enviro Ltd

Suite One | No 3 Mitton Road Business Park
Mitton Road | Whalley | Lancashire | BB7 9YE

01254 377622

mbuckley@bekenviro.co.uk | bekenviro.co.uk



Figure 2: Photograph of trial pit

A single bulk clay sample was obtained from the trial pits at the location of the proposed slurry pit and tested by UKAS accredited laboratory of Murray Rix for the determination of soil permeability in triaxial cell in accordance with BS EN 17892-11 (2019).

The results of the permeability testing are included within Annex A of this report.

I trust the above is satisfactory. Should you require anything further please do not hesitate to contact the undersigned.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'MBuckley'.

Michael Buckley

BSc (Hons) MSc MEnvSci CEnv



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ANNEX A

Geotechnical Test Results – Permeability

TEST REPORT

Client BEK Enviro Ltd

Address Suite One
No. 3 Mitton Road Business Park
Mitton Road
Whalley
Lancashire
BB7 9YE

Contract Parsonage Farm,
Ribchester

Job Number MRN 4627/6
Date of Issue 09 February 2023
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Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.



Andrew House, Hadfield Street, Dukinfield, Cheshire SK16 4QX Tel: 0161 475 0870
Email: enquiries@murrayrix.com Website: www.murrayrix.com

Also at: London: 020 8523 1999

Murray Rix is the trading name of Murray Rix (Northern) Limited. Registered in England 2878361

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

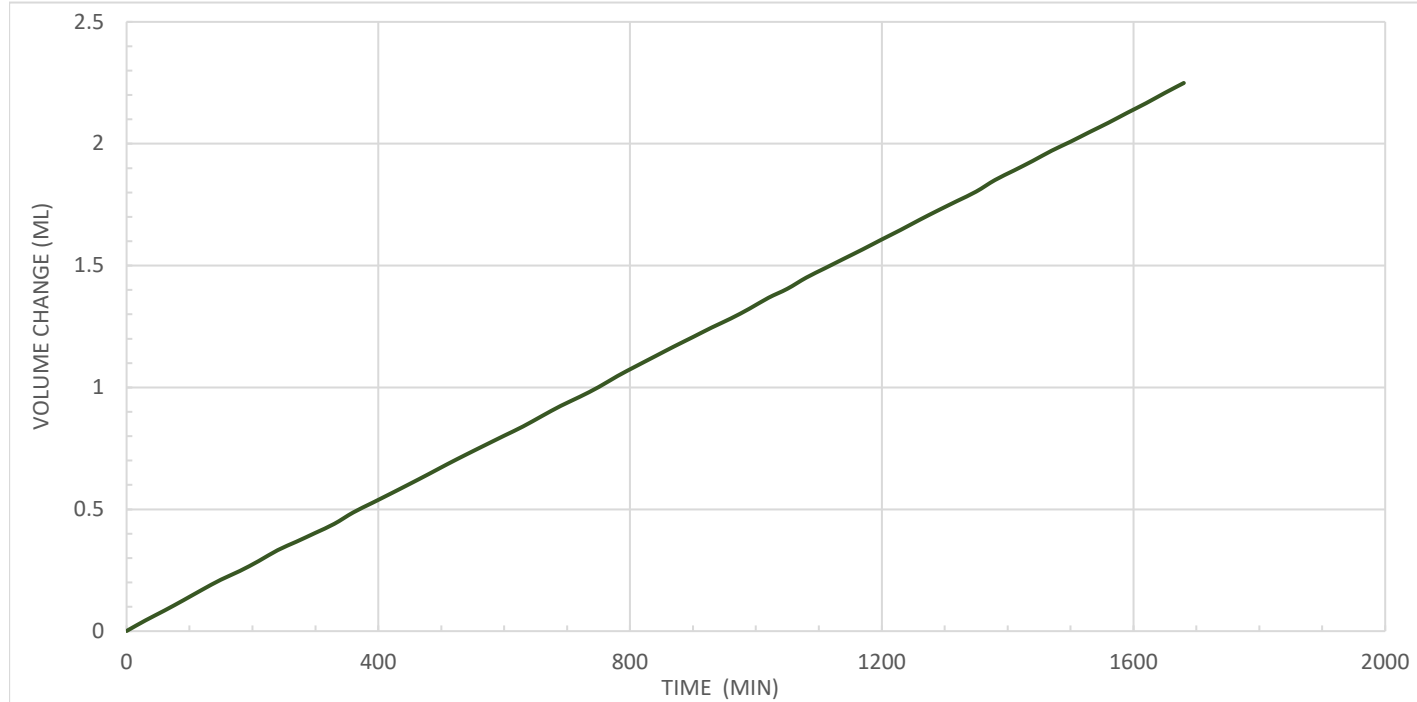
DETERMINATION OF CONSTANT HEAD PERMEABILITY IN THE TRIAXIAL CELL
(FLEXIBLE WALL PERMEAMETER)
BS EN 17892-11:2019

CLIENT	BEK Enviro Ltd
SITE	Parsonage Farm, Ribchester
JOB NUMBER	MRN 4627/6

SAMPLE LABEL	TP1	DATE SAMPLED	12-Jan-23
LAB SAMPLE No.	120331	DATE RECEIVED	17-Jan-23
DATE TESTED	18-Jan-23	SAMPLED BY	Client

MATERIAL	Stiff brown silty slightly sandy CLAY
ADVISED SOURCE	Site Investigation Sample
PRE TREATMENT	Recompacted at the as received moisture content using the 2.5kg rammer
MOISTURE CONTENT	Determined from sample preparation trimmings
WATER SOURCE	De-aired tap water

INITIAL CONDITIONS		FINAL CONDITIONS		PERMEABILITY STAGE	
Height	100 mm			Mean Effective Stress	100 kPa
Diameter	100 mm			Cell Pressure	415 kPa
Bulk Density	1.84 Mg/m ³	Bulk Density	2.08 Mg/m ³	Base Pressure	300 kPa
Moist. cont.	18.5 %	Moist. cont.	22.7 %	Top Pressure	330 kPa
Dry Density	1.55 Mg/m ³	Dry Density	1.69 Mg/m ³	Differential Pressure	30 kPa
				Hydraulic Gradient	31
Method of Saturation	Cell & Back Pressure			Flow Direction	Vertical Downwards
Pore Pressure Coefficient	0.95	(B)		Laboratory Temperature	(Avg) 20 deg. C
Coefficient of Permeability	9.3E-11	m/sec		Steady State Flow	2.23E-11 m ³ /sec



Remarks/Abnormalities

Signed

Name

O.P. Davies BA (Hons)
(Laboratory Manager)

Date

09-Feb-23