

Tel: 01454 269 237 www.enzygo.com

Your Ref: Our Ref: CRM.1027.113.GE.L.001.B Date: 13 May 2022 Email: <u>steve.rhodes@enzygo.com</u>

By Email: HarryHoward@hill.co.uk

Harry Howard Hill Partnership Ltd The Power House, Gunpowder Mill, Powdermill Ln, Waltham Abbey EN9 1BN

Dear Harry

RE: Bell Road, Bottisham, Cambs, CB25 9DH

General

Enzygo Geoenvironmental Ltd undertook supplementary ground investigation works between 28th of March and 21st April March 2022 at the above named site. The locations of the exploratory holes are shown on Drawing CRM.1027.113.GE.D.001 and are discussed in the sections below:

Pavement Design

Site sampling was undertaken by Enzygo Geoenvironmental Ltd comprising:

- Excavation of seven trial pits (CBR 1 to CBR7) along the route of the proposed adopted road. Trial pits were excavated to depths of 0.5m below ground level, within natural sub-soil and at the proposed sub-formation depth.
- Laboratory testing on recompacted samples to reflect conditions following proof rolling. Tests on samples were undertaken on soaked samples which reflects the sub-formation becoming saturated;
- Atterberg Limits determination were undertaken on all samples which are used to assess equilibrium values using the correlations given in Advice Note 73/06 and also provide an assessment of frost susceptibility.

Locations of the trial pit positions are shown on Drawing CRM.1027.113.GE.D.001 overlain on to the proposed development plan. Laboratory results are attached. When assessing the most appropriate CBR value from each sample the result which more closely matches the equilibrium value is used.

California Bearing Ratio Location **Plasticity Index Equilibrium Value** Laboratory Soaked CBR 1 Gravelly, sandy clay 10% 3% 6.3% 3.5% 2.2% CBR 2 Gravelly, sandy clay 16% 3.5% CBR 3 Gravelly, sandy clay 16% 3.8% CBR 4 Gravelly, sandy clay 15% 3.5% 3.4% CBR 5 3.5% 2.2% Gravelly, silty clay 16% CBR 6 Gravelly, silty clay 21% 4% 3.2% CBR 7 19% 4% 4.4% Gravelly, sandy clay

Results of the CBR testing is presented below:



The exposed formation should be proof rolled, inspected and any soft materials removed and replaced with granular fill. This should remove localised soft spots which may otherwise reduce the CBR values.

Soils are considered to be frost susceptible.

Soakaway Tests

Enzygo Geoenvironmental Ltd undertook soakaway testing at locations shown on Drawing CRM.1027.113.GE.D.001. Soakaway locations SA1 and SA2 were undertaken using the hybrid method required by Cambridgeshire County Council. Insufficient soakage was recorded and the tests failed.

Within the remainder of the soakaway pits three consecutive cycles of testing were undertaken at each location. As soakage was slow tests were undertaken over consecutive days with tests being run over night where necessary. Ground conditions are shown on the attached soakaway logs and comprised Topsoil like Made Ground over putty chalk. Results of the soakaway testing are shown on the attached sheets and summarised on the table below:

Soakaway	Depth (m bgl)	Test No	Soil Infiltration Rate
		Test 1	1.81E⁻⁵m/s
SA3	0.7	Test 2	7.72E ⁻⁶ m/s
		Test 3	6.36E ⁻⁶ m/s
		Test 1	3.74E ⁻⁵ m/s
SA4	0.7	Test 2	1.39E ⁻⁵ m/s
		Test 3	9.76E⁻ ⁶ m/s
		Test 1	3.22E ⁻⁵ m/s
SA5	0.7	Test 2	7.87E ⁶ m/s
		Test 3	8.66E ⁻⁶ m/s
		Test 1	1.48E ⁻⁵ m/s
SA6	0.7	Test 2	1.41E ⁻⁵ m/s
		Test 3	8.64E ⁻⁶ m/s
		Test 1	4.44E ⁻⁶ m/s
SA7	2.0	Test 2	2.80E ⁻⁶ m/s
		Test 3	1.69E ⁻⁶ m/s
		Test 1	1.69E ⁻⁵ m/s
SA8	0.7	Test 2	1.23E ⁻⁵ m/s
		Test 3	6.81E ⁻⁶ m/s

Waste Classification

Samples of soil were collected for Waste Assessment Criteria (WAC) testing. Ten soil samples (WAC1 to WAC10) were collected. Soil samples were sent to I2 Itd who are UKAS and MCERTS accredited. Two stage Waste Acceptance Criteria (WAC) tests were undertaken on the samples. Results are attached and discussed below:

It is considered that the soils tested should be classified as Inert waste based on the chemical and WAC testing undertaken.

The Waste Management paper 3 requires the landfill to make an appropriate assessment of the waste classification. As such final assessment will be undertaken by the receiving landfill based on the requirements of their permit

Gas Monitoring



An earlier investigation included the installation of two ground gas monitoring wells with limited monitoring undertake. During the supplementary site investigation works undertaken by Enzygo Geoenvironmental Ltd an additional well (WS1) was installed to provide three locations at the site in accordance with CIRIA C665.

Return monitoring visits have been undertaken to monitor ground gas at the three wells present on site. The results are summarised below:

Fundamentaria	Atmos	Atmos Flow CH4		CO2		02	
Exploratory	pressure	(l/hr)	Concentration	GSV	Concentration	GSV	Concentration
noie	(Mb)		(%)	(l/hr)	(%)	(l/hr)	(%)
6.4.22		1			r		ř
WS1	994	<0.1	<0.1	<0.0001	1.1	<0.0011	19.2
WS01	994	<0.1	<0.1	<0.0001	0.4	<0.0004	20.1
WS10	994	<0.1	<0.1	<0.0001	1.4	<0.0014	18.7
13.4.22							\$
WS1	1014	<0.1	<0.1	<0.0001	1.8	<0.0018	18.6
WS01	1014	<0.1	<0.1	<0.0001	0.6	<0.0006	19.9
WS10	1014	<0.1	<0.1	<0.0001	1.6	<0.0016	17.9
20.4.22							
WS1	1018	<0.1	<0.1	<0.0001	1.3	< 0.0013	19.3
WS01	1018	<0.1	<0.1	<0.0001	1.1	<0.0011	19.1
WS10	1018	<0.1	<0.1	<0.0001	1.5	<0.0015	19.5
27.4.22							
WS1	1027	<0.1	<0.1	<0.0001	1.8	<0.0018	19.1
WS01	1027	<0.1	<0.1	<0.0001	1.3	<0.0013	19.9
WS10	1027	<0.1	<0.1	<0.0001	1.7	<0.0017	19.2
4.5.22	•						
WS1	1017	<0.1	<0.1	<0.0001	1.3	< 0.0013	19.7
WS01	1017	<0.1	<0.1	<0.0001	1.2	<0.0012	19.8
WS10	1017	<0.1	<0.1	<0.0001	1.3	<0.0013	19.6
11.5.22							
WS1	999	<0.1	<0.1	<0.0001	1.9	<0.0019	19.6
WS01	999	<0.1	<0.1	<0.0001	1.4	<0.0014	19.7
WS10	999	<0.1	<0.1	<0.0001	1.2	<0.0012	19.9

Gas monitoring was undertaken during return visits which has not recorded elevated concentrations of Methane or Carbon dioxide and no flow. Based on the gas monitoring undertake the Gas Screening Value is less than 0.07l/hr and therefore falls within Characteristic Situation 1 (CS1).

We hope that we have correctly interpreted your requirements.

Yours sincerely, For and on behalf of Enzygo



Steve Rhodes BSC(hon) MSC DIC CENG CGeol MIMMM MIENVSC FGS Director Enzygo Geoenvironmental Ltd



Drawing





Geotechnical Laboratory Results



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM.1027.113
Client Address:	The Byre, Woodend Lane,	Job Number: 22-49788
	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022
	GL12 8AA	Date Received: 01/04/2022
Contact:	Steve Rhodes	Date Tested: 12/04/2022
Site Address:	Bell Road Bottisham	Sampled By: Not Given
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2227504	Depth Top [m]: 0.50
Hole No.:	CBR1	Depth Base [m]: Not Given

Sample Type: B

Sample Preparation: Tested in natural condition

Sample Reference:

Sample Description:

Not Given

Light grey sandy CLAY with crushed marly limestone

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
19	31	21	10	100



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM.1027.113
Client Address:	The Byre, Woodend Lane,	Job Number: 22-49788
	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022
	GL12 8AA	Date Received: 01/04/2022
Contact:	Steve Rhodes	Date Tested: 12/04/2022
Site Address:	Bell Road Bottisham	Sampled By: Not Given
Testing carried out at is	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2227505	Depth Top [m]: 0.50

Laboratory Reference:2227505Hole No.:CBR2Sample Reference:Not GivenSample Description:Light grey sandy CLAY with crushed marly limestone

Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B

Sample Preparation: Tested after >425um removed by hand

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
22	35	19	16	98



Note: Water Content by BS 1377-2: 1990: Clause 3.2

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DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM.1027.113
Client Address:	The Byre, Woodend Lane,	Job Number: 22-49788
	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022
	GL12 8AA	Date Received: 01/04/2022
Contact:	Steve Rhodes	Date Tested: 12/04/2022
Site Address:	Bell Road Bottisham	Sampled By: Not Given
Testing carried out at i	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2227506	Depth Top [m]: 0.50

Laboratory Reference:	2227506
Hole No.:	CBR3
Sample Reference:	Not Given
Sample Description:	Light grey sandy CLAY with crushed marly limestone

Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B

Sample Preparation: Tested after >425um removed by hand

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
17	34	18	16	95



Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Organic

Si	gn	ed	:

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

append to classification for organic material (eg CIHO)



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



01.		
Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM.1027.113
Client Address:	The Byre, Woodend Lane,	Job Number: 22-49788
	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022
	GL12 8AA	Date Received: 01/04/2022
Contact:	Steve Rhodes	Date Tested: 12/04/2022
Site Address:	Bell Road Bottisham	Sampled By: Not Given
Testing carried out at	i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference	: 2227507	Depth Top [m]: 0.50
Hole No .	CBB4	Depth Base [m]: Not Given

Hole No.: CBR4 Sample Reference: Not Given Light grey sandy CLAY with crushed marly limestone Sample Description:

epth Base [m]: Not Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425μm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
20	36	21	15	100



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM.1027.113				
Client Address:	The Byre, Woodend Lane,	Job Number: 22-49788				
	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022				
	GL12 8AA	Date Received: 01/04/2022				
Contact:	Steve Rhodes	Date Tested: 12/04/2022				
Site Address:	Bell Road Bottisham	Sampled By: Not Given				
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland					
Test Results:						
Laboratory Reference:	2227508	Depth Top [m]: 0.50				

Hole No.: CBR5 Sample Reference: Not Given Sample Description: Light grey sandy CLAY with crushed marly limestone Depth Base [m]: Not Given Sample Type: B

Tested in natural condition Sample Preparation:

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
19	34	18	16	100



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Organic



Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

append to classification for organic material (eg CIHO)



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM.1027.113							
Client Address:	The Byre, Woodend Lane,	Job Number: 22-49788							
	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022							
	GL12 8AA	Date Received: 01/04/2022							
Contact:	Steve Rhodes	Date Tested: 12/04/2022							
Site Address:	Bell Road Bottisham	Sampled By: Not Given							
Testing carried out at	i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland								
Test Results:									
Laboratory Reference	: 2227509	Depth Top [m]: 0.50							

Laboratory Reference:2227509Hole No.:CBR6Sample Reference:Not GivenSample Description:Light grey sandy CLAY with crushed marly limestone

Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B

Sample Preparation: Tested after >425um removed by hand

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
20	38	17	21	99



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Organic



Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

append to classification for organic material (eg CIHO)



DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



	F						
Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM.1027.11					
Client Address:	The Byre, Woodend Lane,	Job Number: 22-49788					
	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022					
	GL12 8AA	Date Received: 01/04/2022					
Contact:	Steve Rhodes	Date Tested: 12/04/2022					
Site Address:	Bell Road Bottisham	Sampled By: Not Given					
Testing carried out at	i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland						
Test Results:							
Laboratory Reference:	2227510	Depth Top [m]: 0.50					
LI-L-NL-	0007	Durill Durin Lul Mat Church					

Laboratory Reference:	2227510
Hole No.:	CBR7
Sample Reference:	Not Given
Sample Description:	Light grey sandy CLAY with crushed marly limestone

Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [W] %	[WL] %	[Wp] %	[lp] %	BS Test Sieve
19	40	21	19	100



Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990:

Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2:

1990: Clause 8.2

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client Reference: CRM.1027.113 Job Number: 22-49788 Date Sampled: 31/03/2022 Date Received: 01/04/2022 Date Tested: 12/04/2022 Sampled By: Not Given

Client: Enzygo Geoenvironmental Ltd Client Address: The Byre, Woodend Lane, Cromhall, Gloucestershire, GL12 8AA Contact: Steve Rhodes

Site Address: Bell Road Bottisham

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test results

TESTING

4041

Laboratory Reference			Sample	Sample				tent W]	tent 892-1	Atterberg				Density			#	
	Hole No.	Reference	Depth Top	Depth Base	Туре	Description	Remarks	Water Coni BS 1377-2 [Water Coni BS EN ISO 17 [W]	% Passing 425um	WL	Wp	lp	bulk	dry	PD	Total Porosity	
			m	m				%	%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3	%	
2227504	CBR1	Not Given	0.50	Not Given	В	Light grey very sandy silty CLAY with crushed marly limestone	Atterberg 1 Point	19		100	31	21	10					
2227505	CBR2	Not Given	0.50	Not Given	В	Brownish grey slightly gravelly sandy silty CLAY with crushed marly limestone	Atterberg 1 Point	22		98	35	19	16					
2227506	CBR3	Not Given	0.50	Not Given	В	Brownish grey slightly gravelly very sandy CLAY with crushed marly limestone	Atterberg 1 Point	17		95	34	18	16					
2227507	CBR4	Not Given	0.50	Not Given	В	Light grey sandy silty CLAY with crushed marly limestone	Atterberg 1 Point	20		100	36	21	15					
2227508	CBR5	Not Given	0.50	Not Given	В	Light grey sandy CLAY with crushed marly limestone	Atterberg 1 Point	19		100	34	18	16					
2227509	CBR6	Not Given	0.50	Not Given	В	Light grey slightly gravelly sandy CLAY with crushed marly limestone	Atterberg 1 Point	20		99	38	17	21					
2227510	CBR7	Not Given	0.50	Not Given	В	Light grey sandy CLAY with crushed marly limestone	Atterberg 1 Point	19		100	40	21	19					

Note: # Non accredited; NP - Non plastic

Comments:



Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client Reference: CRM.1027.113 Job Number: 22-49788 Date Sampled: 31/03/2022 Date Received: 01/04/2022 Date Tested: 12/04/2022 Sampled By: Not Given

4041Client:Enzygo Geoenvironmental LtdClient Address:The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AAContact:Steve Rhodes

Site Address: Bell Road Bottisham

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test results

TESTING

		Hole No. Reference Depth Depth Base Type Description Remarks m m m									
Laboratory Reference	Hole No.			Remarks	wc %	Sample preparation / Oven temperature at the time of testing					
2227504	CBR1	Not Given	0.50	Not Given	В	Light grey very sandy silty CLAY with crushed marly limestone		19	Sample was quartered, oven dried at 109 °C		
2227505	CBR2	Not Given	0.50	Not Given	В	Brownish grey slightly gravelly sandy silty CLAY with crushed marly limestone		22	Sample was quartered, oven dried at 106.8 °C		
2227506	CBR3	Not Given	0.50	Not Given	В	Brownish grey slightly gravelly very sandy CLAY with crushed marly limestone		17	Sample was quartered, oven dried at 106.1 °C		
2227507	CBR4	Not Given	0.50	Not Given	В	Light grey sandy silty CLAY with crushed marly limestone		20	Sample was quartered, oven dried at 109 °C		
2227508	CBR5	Not Given	0.50	Not Given	В	Light grey sandy CLAY with crushed marly limestone		19	Sample was quartered, oven dried at 109 °C		
2227509	CBR6	Not Given	0.50	Not Given	В	Light grey slightly gravelly sandy CLAY with crushed marly limestone		20	Sample was quartered, oven dried at 109 °C		
2227510	CBR7	Not Given	0.50	Not Given	В	Light grey sandy CLAY with crushed marly limestone		19	Sample was quartered, oven dried at 109 °C		

Comments:

Signed:

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

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Date Reported: 29/04/2022 GF 099.16



Client: Client Address:

TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Enzygo Geoenvironmental Ltd

The Byre, Woodend Lane, Cromhall, Gloucestershire,

Moisture content

GL12 8AA

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

Surcharge applied

Client Reference: CRM.1027.113

Job Number: 22-49788

Date Sampled: 31/03/2022

Date Received: 01/04/2022

8

4.8

kg

kPa



Contact:	Steve Rhodes		Date Tested: 1	4/04/202	2	
Site Address:	Bell Road Bottisham			Sampled By: N	√ot Given	
Testing carried out at i2	Analytical Limited, ul. Pionierow	39, 41-7	11 Ruda Slaska, Poland			
Test Results:						
Laboratory Reference:	2227504			Depth Top [m]: 0).50	
Hole No.:	CBR1			Depth Base [m]: N	Vot Given	
Sample Reference:	Not Given		Sample Type: E	3		
Sample Description:	Light grey very sandy silty CLAY	with cru	shed marly limestone			
Specimen Preparation	1:					
Condition	Remoulded			Soaking details		
Details	Recompacted with specified standard effort using 2 5kg rammer		ort using 2 5kg rammer	Period of soaking	7	days
	necompacted with specified star	iuaiu en	on using 2.5kg rammer	Time to surface	5	days
				Amount of swell recorded	0.03	mm
Material retained on 20	mm sieve removed	39	%	Dry density after soaking	1.69	Mg/m3

Initial Specimen details Bulk density Dry density

Force v Penetration Plots

%

Mg/m3

Mg/m3

2.03

1.69

20



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TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

> Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B



Client:	Enzygo Geoenvironmental Ltd	Client Reference:	CRM.1027.113
Client Address:	The Byre, Woodend Lane,	Job Number:	22-49788
	Cromhall, Gloucestershire,	Date Sampled:	31/03/2022
	GL12 8AA	Date Received:	01/04/2022
Contact:	Steve Rhodes	Date Tested:	14/04/2022
Site Address:	Bell Road Bottisham	Sampled By:	Not Given
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland		
Test Results:			

Laboratory Reference:	2227504
Hole No.:	CBR1
Sample Reference:	Not Given
Sample Description:	Light grey very sandy silty CLAY with crushed marly limestone



Deveevlees	Test carried out with > 25 % retained on 20mm as per	Test/ Specimen
Remarks:	clause 7.2.1.2	specific remarks:

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Signed:

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Date Reported: 29/04/2022



Client:

Client Address:

Enzygo Geoenvironmental Ltd

The Byre, Woodend Lane,

TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

Client Reference: CRM.1027.113

Job Number: 22-49788



	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022
	GL12 8AA	Date Received: 01/04/2022
Contact:	Steve Rhodes	Date Tested: 13/04/2022
Site Address:	Bell Road Bottisham	Sampled By: Not Given
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		
Laboratory Reference:	2227505	Depth Top [m]: 0.50
Hole No.:	CBR2	Depth Base [m]: Not Given
Sample Reference:	Not Given	Sample Type: B
Sample Description:	Brownish grey slightly gravelly sandy silty CLAY with crushed marly lime	stone
Specimen Preparation	1:	
Condition	Remoulded	Soaking details

Condition	Recompacted with specified standard effort using 2.5kg rammer			Soaking details		
Details				Period of soaking	11	days
				Time to surface	5	days
				Amount of swell recorded	0.03	mm
Material retained on 20mm sieve removed		0	%	Dry density after soaking	1.63	Mg/m3
Initial Specimen details	Bulk density	1.97	Mg/m3	Surcharge applied	8	kg
	Dry density	1.63	Mg/m3		4.8	kPa
	Moisture content	21	%			





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TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

> Depth Top [m]: 0.50 Depth Base [m]: Not Given

Sample Type: B



Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM.1027.113			
Client Address:	The Byre, Woodend Lane,	Job Number: 22-49788			
	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022			
	GL12 8AA	Date Received: 01/04/2022			
Contact:	Steve Rhodes	Date Tested: 13/04/2022			
Site Address:	Bell Road Bottisham	Sampled By: Not Given			
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland					
Test Results:					

Laboratory Reference:	2227505
Hole No.:	CBR2
Sample Reference:	Not Given
Sample Description:	Brownish

sh grey slightly gravelly sandy silty CLAY with crushed marly limestone



Test/ Specimen Remarks: specific remarks:

Signed:

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Client: **Client Address:**

TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Enzygo Geoenvironmental Ltd

The Byre, Woodend Lane, Cromhall, Gloucestershire,

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

Client Reference: CRM.1027.113

Job Number: 22-49788

Date Sampled: 31/03/2022



	GL12 8AA	Date Received	: 01/04/2022	2
Contact:	Steve Rhodes	Date Tested	: 14/04/2023	2
Site Address:	Bell Road Bottisham	Sampled By	: Not Given	
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland			
Test Results:				
Laboratory Reference:	2227506	Depth Top [m]	: 0.50	
Hole No.:	CBR3	Depth Base [m]	: Not Given	
Sample Reference:	Not Given	Sample Type	: B	
Sample Description:	Brownish grey slightly gravelly very sandy CLAY with crushed marly I	imestone		
Specimen Preparation	1:			
Condition	Remoulded	Soaking details		
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	11	days

	compacted with specified standard enort using 2.5kg familier		Time to surface	5	days	
Material retained on 20mm sieve removed		3	%	Amount of swell recorded Dry density after soaking	-0.08 1.69	mm Mg/m3
Initial Specimen details	Bulk density Dry density	2.03 1.69	Mg/m3 Mg/m3	Surcharge applied	8 4.9	kg kPa
	Moisture content	20	%			





Remarks:

Test/ Specimen specific remarks:

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Anna Dudzinska PL Deputy Head of Reporting Team

for and on behalf of i2 Analytical Ltd

Signed:



TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

> Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B



Client:	Enzygo Geoenvironmental Ltd	Client Reference:	CRM.1027.113
Client Address:	The Byre, Woodend Lane,	Job Number:	22-49788
	Cromhall, Gloucestershire,	Date Sampled:	31/03/2022
	GL12 8AA	Date Received:	01/04/2022
Contact:	Steve Rhodes	Date Tested:	14/04/2022
Site Address:	Bell Road Bottisham	Sampled By:	Not Given
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland		
Test Results:			

Laboratory Reference:	2227506
Hole No.:	CBR3
Sample Reference:	Not Giver
Sample Description:	Brownish

grey slightly gravelly very sandy CLAY with crushed marly limestone



Test/ Specimen Remarks: specific remarks:

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Signed:



Client: **Client Address:**

TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Enzygo Geoenvironmental Ltd

The Byre, Woodend Lane,

Cromhall, Gloucestershire,

Dry density

Moisture content

GL12 8AA

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

Client Reference: CRM.1027.113

Job Number: 22-49788

Date Sampled: 31/03/2022

Date Received: 01/04/2022



days days mm

Mg/m3

kg

kPa

4.8

Contact:	Steve Rhodes		Date Tested	: 13/04/2022	
Site Address:	Bell Road Bottisham			Sampled By	: Not Given
Testing carried out at i2	2 Analytical Limited, ul. Pioniero	w 39, 41-7	11 Ruda Slaska, Poland		
Test Results:					
Laboratory Reference:	2227507			Depth Top [m]	: 0.50
Hole No.:	CBR4	CBR4 Depth Base [m]: No			
Sample Reference:	Not Given	lot Given Sample Type: B			
Sample Description:	Light grey sandy silty CLAY wi	th crushed	marly limestone		
Specimen Preparation	1:				
Condition	Remoulded			Soaking details	
Details	Becompacted with specified st	tandard eff	Period of soaking	9	
	Theorem pacted with specified si		on using 2.5kg rammer	Time to surface	5
				Amount of swell recorded	0.08
Material retained on 20	mm sieve removed	0	%	Dry density after soaking	1.69
Initial Specimen details	Bulk density	2.02	Mg/m3	Surcharge applied	8

Mg/m3

%



1.69

19



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TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM.1027.113
Client Address:	The Byre, Woodend Lane,	Job Number: 22-49788
	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022
	GL12 8AA	Date Received: 01/04/2022
Contact:	Steve Rhodes	Date Tested: 13/04/2022
Site Address:	Bell Road Bottisham	Sampled By: Not Given
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Test Results:		

st Results:

Laboratory Reference:	2227507
Hole No.:	CBR4
Sample Reference:	Not Given
Sample Description:	Light grey sandy silty CLAY with crushed marly limestone

Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B



Remarks:

Test/ Specimen specific remarks:

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Signed:



Client: Client Address:

TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Enzygo Geoenvironmental Ltd

The Byre, Woodend Lane,

Cromhall, Gloucestershire,

Dry density

Moisture content

GL12 8AA

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

Client Reference: CRM.1027.113

Job Number: 22-49788

Date Sampled: 31/03/2022

Date Received: 01/04/2022



kg

kPa

4.9

Contact: Site Address:	Steve Rhodes Bell Road Bottisham		Date Tested: Sampled By:	14/04/2022 Not Given	2	
Testing carried out at i2	? Analytical Limited, ul. Pionierow	39, 41-7	711 Ruda Slaska, Poland			
Test Results: Laboratory Reference: Hole No.:	2227508 CBR5			Depth Top [m]: Depth Base [m]:	0.50 Not Given	
Sample Reference:	Not Given			Sample Type:	В	
Sample Description:	Light grey sandy CLAY with crus	hed mar	rly limestone			
Specimen Preparation	1:					
Condition	Remoulded			Soaking details		
Details	Decomposited with encoified standard effort using 0 Ekg remmer			Period of soaking	7	days
	Recompacied with specified star	iuaru en	on using 2.5kg fammer	Time to surface	5	days
				Amount of swell recorded	-0.09	mm
Material retained on 20	mm sieve removed	28	%	Dry density after soaking	1.68	Mg/m3
Initial Specimen details	Bulk density	2.03	Mg/m3	Surcharge applied	8	kg

Mg/m3

%

Force v Penetration Plots

1.68

21



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TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Client:	Enzygo Geoenvironmental Ltd	Client Reference: CRM.1027.113
Client Address:	The Byre, Woodend Lane,	Job Number: 22-49788
	Cromhall, Gloucestershire,	Date Sampled: 31/03/2022
	GL12 8AA	Date Received: 01/04/2022
Contact:	Steve Rhodes	Date Tested: 14/04/2022
Site Address:	Bell Road Bottisham	Sampled By: Not Given
Testing carried out at it	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland	
Toot Booulton		

Test Results:

Laboratory Reference:	2227508
Hole No.:	CBR5
Sample Reference:	Not Given
Sample Description:	Light grey sandy CLAY with crushed marly limestone

Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B



Demerica	Test carried out with > 25 % retained on 20mm as per	Test/ Specimen
Remarks:	clause 7.2.1.2	specific remarks:

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Client: Client Address:

TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Enzygo Geoenvironmental Ltd

The Byre, Woodend Lane, Cromhall, Gloucestershire,

Dry density

Moisture content

GL12 8AA

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

Client Reference: CRM.1027.113

Job Number: 22-49788

Date Sampled: 31/03/2022

Date Received: 01/04/2022

4.8

kPa



Contact: Site Address:	Steve Rhodes Bell Road Bottisham		Date Tested: Sampled By:	14/04/202 Not Given	2		
Testing carried out at iz	2 Analytical Limited, ul. Pioniero	ow 39, 41-7	711 Ruda Slaska, Poland				
Test Results:							
Laboratory Reference:	2227509			Depth Top [m]:	Depth Top [m]: 0.50		
Hole No.:	CBR6			Depth Base [m]:	Not Given		
Sample Reference:	Not Given			Sample Type:	В		
Sample Description:	Light grey slightly gravelly sar	ndy CLAY v	with crushed marly limestone				
Specimen Preparation	1:						
Condition	Remoulded			Soaking details			
Details	Personnanted with encoified standard offert using 2 5kg rammer			Period of soaking	9	days	
	Recompacted with specified s	stanuaru er	fort using 2.3kg rammer	Time to surface	5	days	
				Amount of swell recorded	0.00	mm	
Material retained on 20	mm sieve removed	51	%	Dry density after soaking	1.70	Mg/m3	
Initial Specimen details	Bulk density	2.04	Mg/m3	Surcharge applied	8	kg	

Force v Penetration Plots

Mg/m3

%

1.70

20



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Tested in Accordance with: BS 1377-4: 1990: Clause 7

 IEST CERTIFICATE
 i2 Analytical Ltd

 DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR) SOAKED
 Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

 Environmental Science

Client:	Enzygo Geoenvironmental Ltd	Client Reference:	CRM.1027.113	
Client Address:	The Byre, Woodend Lane,	Job Number:	22-49788	
	Cromhall, Gloucestershire,	Date Sampled:	31/03/2022	
	GL12 8AA	Date Received:	01/04/2022	
Contact:	Steve Rhodes	Date Tested:	14/04/2022	
Site Address:	Bell Road Bottisham	Sampled By:	Not Given	
Testing carried out at i2	2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland			

Test Results:

Laboratory Reference:	2227509
Hole No.:	CBR6
Sample Reference:	Not Given
Sample Description:	Light grey slightly gravelly sandy CLAY with crushed marly limestone

Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B



Remarks:	Test carried out with > 25 % retained on 20mm as per	Test/ Spec	imen
	clause 7.2.1.2	specific rem	arks:
		Signed:	Anna Dudzinska

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Sig	ned	:	



Client: **Client Address:**

TEST CERTIFICATE DETERMINATION OF THE CALIFORNIA BEARING

RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

Enzygo Geoenvironmental Ltd

The Byre, Woodend Lane, Cromhall, Gloucestershire,

Dry density

Moisture content

GL12 8AA

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB

Client Reference: CRM.1027.113

Job Number: 22-49788

Date Sampled: 31/03/2022

Date Received: 01/04/2022

4.9

kPa



Contact: Site Address:	Steve Rhodes Bell Road Bottisham		Date Tested: 13/04/2022 Sampled By: Not Given			
Testing carried out at i2	2 Analytical Limited, ul. Pionierow	39, 41-7	11 Ruda Slaska, Poland			
Test Results: Laboratory Reference: Hole No.: Sample Reference: Sample Description:	2227510 CBR7 Not Given Light grey sandy CLAY with crus	hed mar	lv limestone	Depth Top [m]: Depth Base [m]: Sample Type:	0.50 Not Given B	
Specimen Preparation	n:		,,			
Condition Details	Remoulded Recompacted with specified standard effort using 2.5kg rammer			Soaking details Period of soaking Time to surface	11 5	days days
Material retained on 20mm sieve removed		0	%	Amount of swell recorded Dry density after soaking	0.13 1.68	mm Mg/m3
Initial Specimen details	Bulk density	2.02	Mg/m3	Surcharge applied	8	kg

Force v Penetration Plots

1.68

20

Mg/m3

%



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Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Signed:



RATIO (CBR) SOAKED

Tested in Accordance with: BS 1377-4: 1990: Clause 7

i2 Analytical Ltd Unit 8 Harrowden Road DETERMINATION OF THE CALIFORNIA BEARING Brackmills Industrial Estate Northampton NN4 7EB



Client:	Enzygo Geoenvironmental Ltd	Client Reference:	CRM.1027.113	
Client Address:	The Byre, Woodend Lane,	Job Number:	22-49788	
	Cromhall, Gloucestershire,	Date Sampled:	31/03/2022	
	GL12 8AA	Date Received:	01/04/2022	
Contact:	Steve Rhodes	Date Tested:	13/04/2022	
Site Address:	Bell Road Bottisham	Sampled By:	Not Given	
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland				
Teet Desulter				

Test Results:

Laboratory Reference:	2227510
Hole No.:	CBR7
Sample Reference:	Not Given
Sample Description:	Light grey sandy CLAY with crushed marly limestone

Depth Top [m]: 0.50 Depth Base [m]: Not Given Sample Type: B



Remarks:

Test/ Specimen specific remarks:

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Signed:



Soakaway Sheets

enzyg		SiteBell Road, Cambridge Job NumberCRM.1027.113 Date of Test29.03.22 SOIL INFILTRATION RATE TEST			Soakaway Number Length Width Depth Groundwater Level		SA1 2.00 2.00 2.00 Dry	m m m
Demortes		[See B.R.E. Digest 365, 1991	, Soakaway Desigi	n.		1	TEOTO	
Remarks - 0.0 - 0.3: Grass over soft brown sligtly gravelly CLAY with rootlets. Gravel is angular and subangular fine to coarse of flint. 0.3 - 3.0: White slightly clayey structureless CHALK.	Time(min) 0.0 1.0 2.0 3.0 4.0 5.0 10.0 15.0 30.0 60.0 120.0 180.0 240.0 250.0 0 0	TEST 1 Depth to Water (m) 0.19 0.19 0.19 0.19 0.19 0.20 0.21 0.22 0.24 0.27 0.33 0.38 0.41 0.41 0.00	Time(min)	TEST 2 Depth to W	fater (m)	Time(min)	TEST 3 Depth to	o Water (m)
	0.00	0.00 0.00						
F . Ho m H/Ho = 0.37 m D (h/Ho of 0.37) m T min T seconds A m ²		10.70 1.81 0.67 0.86						
Permerability m/s		#DIV/0!						





Compiled By:	Date:	Approved By:	Date:
G.Hart	01.04.22	S.Rhodes	01.04.22

enzyg	SiteBell Road, Cambridge Job NumberCRM.1027.113 Date of Test29.03.22			Soakaway Number Length Width Depth Groundwater Level		SA2 2.00 2.00 2.00 Dry	m m m	
L		15ee b.K.E. Digest 365, 1991	, Soakaway Desigi	TECT 0		1	TESTO	
0.0 - 0.3: Grass over soft brown sligtly gravelly CLAY with rootlets. Gravel is angular and subangular fine to coarse of flint.	Time(min) 0.0	Depth to Water (m)	Time(min)	Depth to W	/ater (m)	Time(min)	Depth to	Water (m)
0.3 - 3.0: White slightly clayey structureless CHAL	2.0	0.03						
CHAL Test started at 1m bgl consistent with invert level.	3.0 4.0 5.0 10.0 15.0 30.0 60.0 120.0 180.0 240.0 250.00 0.00 0.00 0.00	0.04 0.04 0.05 0.07 0.08 0.11 0.14 0.19 0.21 0.25 0.25 0.25 0.00 0.00 0.00						
F . Ho m H/Ho = 0.37 m D (h/Ho of 0.37) m T min T seconds A m ²		10.70 1.97 0.73 0.76						
Permerability m/s		#DIV/0!						





Compiled By:	Date:	Approved By:	Date:
G.Hart	01.04.22	S.Rhodes	01.04.22

enzyg	SiteBell Road, Cambridge Job NumberCRM.1027.0113 Date of Test19.04.22 - 21.04.22			Soakaway Number SA3 Length 1.50 m Width 0.65 m Depth 0.70 m		SA3 1.50 m 0.65 m 0.70 m	
		SOIL INFILTRATION RATE	TEST	G	Groundwater	Level	m
Demender	ı ——	See B.R.E. Digest 365, 1991	, Soakaway Desig	jn.			TEOTO
Remarks -		IESI 1		TEST 2		+ : / · · ·	TEST3
0.0 - 0.3: Grass over soft brown sligtly	Time(min)	Depth to Water (m)	Time(min)	Depth to wat	er (m)	Time(min)	Depth to water (m)
gravelly CLAY with rootlets. Gravel is							a 1a
angular and subangular fine to coarse of	0.0	0.40	0.0	0.40		0.0	0.40
flint.	5.0	0.40	5.0	0.42		5.0	0.40
0.3 - 0.7: White slightly clayey structureless	10.0	0.40	10.0	0.43		10.0	0.42
CHALK.	15.0	0.43	15.0	0.45		15.0	0.43
	30.0	0.47	30.0	0.46		30.0	0.45
	60.0	0.56	60.0	0.50		60.0	0.47
	120.0	0.67	120.0	0.57		120.0	0.51
	180.0	0.70	180.0	0.60		180.0	0.55
	0.0	0.00	240.0	0.64		240.0	0.60
	0.0	0.00	300.0	0.70		300.0	0.65
	0.0	0.00	0.0	0.00		360.0	0.70
	0.0	0.00	0.0	0.00		0.0	0.00
	0.0	0.00	0.0	0.00		0.0	0.00
	0.00	0.00	0.0	0.00			
	0.00	0.00	0.00	0.00			
	0.00	0.00					
	0.00	0.00					
Effective Observe Denth		2.22		0.00			0.00
Effective Storage Depth m		0.30		0.30			0.30
/5% Ellective Storage Depth m		0.23		0.23			0.23
(i.e. depth below GL) m		0.48		0.48			0.48
25% Ellective Storage Depth M		0.08		80.0			0.08
(i.e. depin below GL) m		0.63 0.6		0.63	0.63		0.63
Ellective Storage Depth 75%-25% M		0.15		0.15			0.15
Time to fall to 75% offective depth		33.00		40.00			90.00
Time to fall to 25% effective depth mins		115.00		40.00			90.00
Time to fail to 23 % effective depth finits		113.00		200.00			270.00
V (75%-25%) m3		0.15		0.15			0 15
a (50%) m ²		1.62		1 62			1.62
t (75%-25%) mins		83.00		195.00			180.00
		00.00		133.00			100.00
SOIL INFILTRATION RATE m/s		1.81E-05		7.72E-00	6		8.36E-06

7.72E-06



Compiled By:	Date:	Approved By:	Date:	
G.Hart	2.04.22	S.Rhodes	22.04.22	

enzyg	Site Bell Road, Cambridge Job Number CRM.1027.0113 Date of Test 19.04.22 - 21.04.22			Soakaway Number SA4 Length 1.50 m Width 0.65 m Depth 0.70 m			
		SOIL INFILTRATION RATE	TEST	G	Groundwater	Level	m
		See B.R.E. Digest 365, 1991	, Soakaway Desig	yn.			
Remarks -		TEST 1		TEST 2			TEST 3
0.0 - 0.3: Grass over soft brown sligtly	Time(min)	Depth to Water (m)	Time(min)	Depth to Wat	ter (m)	Time(min)	Depth to Water (m)
gravelly CLAY with rootlets. Gravel is					2 D		
angular and subangular fine to coarse of	0.0	0.20	0.0	0.24		0.0	0.20
flint	5.0	0.20	5.0	0.27		5.0	0.20
0.3 - 0.7: White slightly clayey structureles	10.0	0.25	10.0	0.30		10.0	0.25
CLALK	15.0	0.35	15.0	0.40		15.0	0.32
CHALK.	30.0	0.50	30.0	0.43		30.0	0.40
	60.0	0.57	60.0	0.46		60.0	0.45
	120.0	0.65	120.0	0.56		120.0	0.51
	180.0	0.68	180.0	0.63		180.0	0.55
	240.0	0.70	240.0	0.67		240.0	0.60
	0.0	0.00	300.0	0.70		300.0	0.65
	0.0	0.00	0.0	0.00		360.0	0.70
	0.0	0.00	0.0	0.00		0.0	0.00
	0.0	0.00	0.0	0.00		0.0	0.00
	0.00	0.00	0.0	0.00			
	0.00	0.00	0.00	0.00			
	0.00	0.00					
	0.00	0.00					
Effective Storage Depth m		0.50		0.46			0.50
75% Effective Storage Depth m		0.38		0.35			0.38
(i.e. depth below GL) m		0.33		0.36			0.33
25% Effective Storage Depth m		0.13		0.12			0.13
(i.e. depth below GL) m		0.58		0.59	59 0.58		0.58
Effective Storage Depth 75%-25% m		0.25		0.23			0.25
Time to fall to 75% effective depth mins		12 00		13.00			17.00
Time to fall to 25% effective depth mins		65.00		150.00	r i		220.00
		00.00		. 50.00	5		220.00
V (75%-25%) m3		0.24		0.22			0.24
a (50%) m2		2.05		1.96			2.05
t (75%-25%) mins		53.00		137.00	l.		203.00
SOIL INFILTRATION RATE m/s		3.74E-05		1.39E-0	5		9.76E-06

9.76E-06



Compiled By:	Date:	Approved By:	Date:
G.Hart	2.04.22	S.Rhodes	22.04.22

enzyg		Site Bell Road, Job Number CRM.1027. Date of Test 19.04.22 - 2	Cambridge Soaka .0113 Length 21.04.22 Width. Depth.		Soakaway Ni Length Width Depth	umber	SA5 1.50 m 0.65 m 0.70 m
		SOIL INFILTRATION RATE	TEST		Groundwater	Level	m
	-	See B.R.E. Digest 365, 1991	I, Soakaway Desig	gn.		-	
Remarks -		TEST 1		TEST 2			TEST 3
0.0 - 0.3: Grass over soft brown sligtly	Time(min)	Depth to Water (m)	Time(min)	Depth to Wa	ater (m)	Time(min)	Depth to Water (m)
gravelly CLAY with rootlets. Gravel is							
angular and subangular fine to coarse of	0.0	0.30	0.0	0.30		0.0	0.35
flint.	5.0	0.30	5.0	0.30		5.0	0.37
0.3 - 0.7: White slightly clavey structureles	10.0	0.35	10.0	0.40		10.0	0.39
CHAIR	15.0	0.40	15.0	0.42		15.0	0.40
CHAEK.	30.0	0.50	30.0	0.45		30.0	0.42
	60.0	0.58	60.0	0.47		60.0	0.45
	120.0	0.68	120.0	0.53		120.0	0.52
	180.0	0.70	180.0	0.58		180.0	0.56
	0.0	0.00	240.0	0.61		240.0	0.60
	0.0	0.00	300.0	0.66		300.0	0.63
	0.0	0.00	360.0	0.70		360.0	0.65
	0.0	0.00	0.0	0.00		480.0	0.70
	0.0	0.00	0.0	0.00		0.0	0.00
	0.00	0.00	0.0	0.00			
	0.00	0.00	0.00	0.00			
	0.00	0.00					
	0.00	0.00					
Effective Storage Depth m		0.40		0.40			0.35
75% Effective Storage Depth m		0.30		0.30			0.26
(i.e. depth below GL) m		0.40		0.40			0.44
25% Effective Storage Depth m		0.10		0.10			0.09
(i.e. depth below GL) m		0.60		0.60			0.61
Effective Storage Depth 75%-25% m		0.20		0.20			0.18
Time to fall to 75% effective depth mins		15.00		10.00			55.00
Time to fall to 25% effective depth mins		70.00		235.00	0		245.00
		10.00		200.00	•		210.00
V (75%-25%) m3		0.20		0.20			0.17
a (50%) m2		1.84		1.84			1.73
t (75%-25%) mins		55.00		225.00	0		190.00
SOIL INFILTRATION RATE m/s		3.22E-05		7.87E-0	06		8.66E-06

7.87E-06



Compiled By:	Date:	Approved By:	Date:
G.Hart	2.04.22	S.Rhodes	22.04.22

enzyg		Site Bell Road, (Job Number CRM.1027. Date of Test 19.04.22 - 2	Cambridge 0113 21.04.22	Soakaw Length Width Depth	ay Number	SA6 1.50 m 0.65 m 0.70 m
		SOIL INFILIRATION RATE	IESI Sockowov Dociar	Groundy	water Level	m
Bemarks -	1	TEST 1	, Suakaway Desigi	TEST 2		TEST 3
0.0 - 0.3: Grass over soft brown sligtly	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
gravelly CLAV with rectlets. Gravel is	rine(min)	Deptil to Water (III)		Deptil to Water (III)	rine(min)	Deptil to Water (III)
gravery CLAT with Tooliets. Gravers	0.0	0.30	0.0	0.36		0.30
angular and subangular fine to coarse of	5.0	0.30	5.0	0.30	5.0	0.30
	10.0	0.30	10.0	0.40	10.0	0.32
0.3 - 0.7: White slightly clayey structureless	15.0	0.35	15.0	0.40	15.0	0.35
CHALK.	30.0	0.40	30.0	0.43	30.0	0.39
	60.0	0.45	60.0	0.46	60.0	0.00
	120.0	0.53	120.0	0.40	120.0	0.40
	180.0	0.62	180.0	0.59	180.0	0.55
	240.0	0.70	240.0	0.65	240.0	0.60
	0.0	0.00	300.0	0.70	360.0	0.70
	0.0	0.00	0.0	0.00	0.0	0.00
	0.0	0.00	0.0	0.00	0.0	0.00
	0.0	0.00	0.0	0.00	0.0	0.00
	0.00	0.00	0.0	0.00		
	0.00	0.00	0.00	0.00		
	0.00	0.00				
	0.00	0.00				
Effective Storage Depth m		0.40		0.34		0.40
75% Effective Storage Depth m		0.30		0.26		0.30
(i.e. depth below GL) m		0.40		0.45		0.40
25% Effective Storage Depth m		0.10		0.09		0.10
(i.e. depth below GL) m		0.60		0.62		0.60
Effective Storage Depth 75%-25% m		0.20		0.17		0.20
Time to fall to 75% effective depth mins		30.00		65.00		35.00
Time to fall to 25% effective depth mins		150.00		180.00		240.00
V (75%-25%) m3		0.20		0.17		0.20
a (50%) m2		1.84		1.71		1.84
t (75%-25%) mins		120.00		115.00		205.00
SOIL INFILTRATION RATE m/s		1.48E-05		1.41E-05		8.64E-06

8.64E-06



12			
Compiled By:	Date:	Approved By:	Date:
G.Hart	2.04.22	S.Rhodes	22.04.22

enzyg		Site Bell Road, Job Number CRM.1027. Date of Test 19.04.22 - 2	Cambridge Soakaway Nur D113 Length 104.22 Width Depth		mber	SA7 1.50 m 0.65 m 2.00 m	
		SOIL INFILIRATION RATE	Soakaway Desig		oundwater	Levei	1.8 m
Bemarks -	<u> </u>	TEST 1	, Suakaway Desigi	TEST 2			TEST 3
0.0 - 0.3. Grass over soft brown sligtly	Time(min)	Depth to Water (m)	Time(min)	Depth to Water	r (m)	Time(min)	Depth to Water (m)
gravelly CLAV with rootlets. Gravel is	rinic(iiiii)	Deptil to Water (iii)		Deptil to Water		11110(11111)	
angular and subangular fine to soarse of	0.0	1.00	0.0	1.00		0.0	1.00
	5.0	1 10	5.0	1.00		5.0	1.00
	10.0	1 20	10.0	1.10		10.0	1 11
0.3 - 2.0: White slightly clayey structureless	15.0	1.25	20.0	1.10		15.0	1.15
CHALK.	30.0	1.28	30.0	1.20		30.0	1.16
	60.0	1.35	60.0	1.35		60.0	1.25
lest started at 1m bgl consistent with invert	120.0	1.51	120.0	1.48		120.0	1.30
level.	180.0	1.62	180.0	1.52		180.0	1.39
	240.0	1.68	240.0	1.58		240.0	1.49
	300.0	1.71	300.0	1.64		300.0	1.55
	360.0	1.73	480.0	1.72		480.0	1.61
	420.0	1.74	1440.0	1.79		1600.0	1.75
	600.0	1.75	0.0	0.00		0.0	0.00
	1440.00	1.88	0.0	0.00			
	0.00	0.00	0.00	0.00			
	0.00	0.00	1000000				
	0.00	0.00					
Effective Storage Depth m		1.00		1.00			1.00
75% Effective Storage Depth m		0.75		0.75			0.75
(i.e. depth below GL) m		1.25		1.25			1.25
25% Effective Storage Depth m		0.25		0.25			0.25
(i.e. depth below GL) m		1.75		1.75			1.75
Effective Storage Depth 75%-25% m		0.50		0.50			0.50
Time to fall to 75% effective depth mins		15.00		20.00			60.00
Time to fall to 25% effective depth mins		600.00		950.00			1600.00
V (75%-25%) m3		0.49		0.49			0.49
a (50%) m2		3.13		3.13			3.13
t (75%-25%) mins		585.00		930.00			1540.00
SOIL INFILTRATION RATE m/s		4.44E-06		2.80E-06			1.69E-06

1.69E-06



Compiled By:	Date:	Approved By:	Date:
G.Hart	2.04.22	S.Rhodes	22.04.22

enzyg		Site Bell Road, (Job Number CRM.1027. Date of Test 19.04.22 - 2 SOIL INFILTRATION RATE	Cambridge Soakaway Nur 0113 Length 21.04.22 Width Depth		away Number h h h	SA8 1.50 m 0.65 m 0.70 m Drv m
		See B.R.E. Digest 365, 1991, Soakaway Design.				
Remarks -		TEST 1		TEST 2		TEST 3
0.0 - 0.3: Grass over soft brown sligtly	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m	n) Time(mir	n) Depth to Water (m)
gravelly CLAY with rootlets. Gravel is	~~~~					
angular and subangular fine to coarse of	0.0	0.30	0.0	0.41	0.0	0.30
flint.	5.0	0.30	5.0	0.41	5.0	0.30
0.3 - 0.7. White slightly clayey structureless	10.0	0.35	10.0	0.41	10.0	0.33
CHAIR	15.0	0.40	15.0	0.40	15.0	0.35
CHAEK.	30.0	0.46	30.0	0.40	30.0	0.40
	60.0	0.50	60.0	0.45	60.0	0.44
	120.0	0.60	120.0	0.51	120.0	0.52
	210.0	0.70	180.0	0.57	180.0	0.55
	0.0	0.00	240.0	0.60	240.0	0.58
	0.0	0.00	400.0	0.70	300.0	0.61
	0.0	0.00	0.0	0.00	450.0	0.70
	0.0	0.00	0.0	0.00	0.0	0.00
	0.0	0.00	0.0	0.00	0.0	0.00
	0.00	0.00	0.0	0.00		
	0.00	0.00	0.00	0.00		
	0.00	0.00				
	0.00	0.00				
Effective Storege Depth		0.40		0.00		0.40
ZF%/ Effective Storage Depth		0.40		0.29		0.40
(i.e. depth below GL)		0.30		0.22		0.30
25% Effective Storage Depth m		0.10		0.07		0.10
(i.e. depth below GL)		0.10		0.63		0.60
Effective Storage Depth 75%-25%		0.00		0.15		0.20
		0.20		0.10		0.20
Time to fall to 75% effective depth mins		15.00		120.00		30.00
Time to fall to 25% effective depth mins		120.00		240.00		290.00
V (75%-25%) m3		0.20		0.14		0.20
a (50%) m2		1.84		1.60		1.84
t (75%-25%) mins		105.00		120.00		260.00
SOIL INFILTRATION RATE m/s		1.69E-05		1.23E-05		6.81E-06

6.81E-06



Compiled By:	Date:	Approved By:	Date:
G.Hart	2.04.22	S.Rhodes	22.04.22



Laboratory WAC Results





Steve Rhodes Enzygo Geoenvironmental Ltd The Byre Woodend Lane Cromhall Gloucestershire GL12 8AA

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Analytical Report Number : 22-49345

Project / Site name:	Bell Road Bottisham	Samples received on:	01/04/2022
Your job number:	CRM 1027 113	Samples instructed on/ Analysis started on:	01/04/2022
Your order number:		Analysis completed by:	12/04/2022
Report Issue Number:	1	Report issued on:	12/04/2022
Samples Analysed:	10 wac multi samples		



Adam Fenwick Technical Reviewer For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.



i2 Analytical

7 Woodshots Meadow Croxley Green Business Park Watford, WD18 8YS Telephone: 01923 225404 Fax: 01923 237404 email:reception@i2analytical.com

Location Beil Road Battishum Landfill Waste Acceptance Criteria Location Beil Road Battishum Landfill Waste Acceptance Criteria Sample ID Watci I Landfill Waste Acceptance Criteria Songe ID Watci I Landfill Waste Acceptance Criteria Songe ID Watci II Landfill Waste Acceptance Criteria Songe ID Watci III Landfill Waste Acceptance Criteria Songe ID Watci III Inter Wate IIII Handfill Waste Acceptance Criteria Songe ID Watci IIII Inter Wate IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Report No:	noouno	22-4	9345				
Location Bell Road Bottsham Client: ENZYGOGE Lab Reference (Sample Number) 2224735								
LocationBell Read BotthamCline:ENZYCOGELocationBell Read Bottham								
LocationImage of the set of t						Client:	ENZYGOGEO	1
Laction Buil Read Struttmam LandTHURK Except and the second of the second								
Lab Andrence (Sample Number) 222173 Intermal Water Acceptor (Units) Sample ID Value (Units) Sale (Normal Content) Sale (Normal Conten) Sale (Normal Conten)	Location		Bell Road	Bottisham				
Sampling Date Linkits Sample Date WAC 1 Inter Wate	Lab Reference (Sample Number)		222	1725		Landfill	Naste Acceptanc	e Criteria
Sample ID VKL I Inter Mask ID Section ID			2225	135			Limits	
Sample D WARE Max Bar Mark Sample Sa	Sampling Date						Stable Non-	
Depth (m)Use 100 (m)	Sample ID		WA	C 1		Inert Waste	HAZARDOUS	Hazardous
Salid Waste Analysis Image: Control of the second sec	Depth (m)		0.50	1.00		Landfill	waste in non- hazardous	Waste Landfill
OC (%)** 0.4 I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <thi< td=""><td>Solid Waste Analysis</td><td></td><td></td><td></td><td></td><td></td><td>Landilli</td><td></td></thi<>	Solid Waste Analysis						Landilli	
Deck of public (%) ** 15 /* 10% 10% DTEX (µg/hg) ** < 0.0	TOC (%)**	0.4				3%	5%	6%
ITEX (Gp/Rg)*** x 10 x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x x	oss on Ignition (%) **	1.5						10%
um of PGS (mg/kg) ** 1 Interal OI (mg/kg) (mg/kg) <	BTEX (µg/kg) **	< 10				6000		
Internal Of (mg/ng) 10 500 otal a PAL (WAC-17) (mg/ng) <	um of PCBs (ma/ka) **	< 0.30				1		
otal PAH (WAC: 17) (mg/ng) < 0.085 Interpretation (March 12) (mg/ng) < 0.085 Interpretation (March 12) (mg/ng) Interpretation (March 12) (Mar	/ineral Oil (mg/kg) EH 1D CU AL #	< 10				500		
H (units)** 8.4 >-6 Cick Neutrilisation Capacity (mmol / kg) 21 To be evaluated To be evaluated State Analysis 2:1 8:1 Cumulative ion To be evaluated To be evaluated State Analysis 2:1 8:1 Cumulative ion To be evaluated To be evaluate	otal PAH (WAC-17) (mg/kg)	< 0.85				100		
cld Neutralisation Capacity (mmol / kg) 21 To be evaluad To be eva	vH (units)**	8.4					>6	
Back Net Masked Visibility 2.1 8.1 Current Visibility Lint Visibility Lint Visibility Usibility BS IN 12457 - 3 preparation utilising end over end leaching rocedure) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	Acid Noutralisation Canacity (mmol / kg)	21					To be evaluated	To be ovaluator
Lunt Analysis 2:1 8:1 Cumulative 10:1 Lunti values for compliance lear/ing test using BS EN 12457-3 preparation utilising end over end lear/ing rocedure/) BS EN 12457 - 3 preparation utilising end over end lear/ing rocedure/) mg/l mg/l mg/l mg/l mg/l mg/l mg/l using BS EN 12457-3 at US 10 Wg (mg/lg) vsenic* 0.0055 0.0055 0.005 0.005 2.0 10.0 30.0 damum * 0.0050 0.0052 0.0057 <0.005	cid Neutralisation capacity (minor / kg)	21					To be evaluated	TO be evaluated
Bit 12457 - 3 preparation utilising end over end leaking rocodure) mg/l mg/	luate Analysis	2:1	8:1		Cumulative 10:1	Limit value	s for compliance le	eaching test
vrsenic* < 0.010	BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN	12457-3 at L/S 10	l/kg (mg/kg)
atrum * 0.0085 0.0052 0.055 20 100 300 admium * < 0.0005	Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
admium * < 0.0005	Barium *	0.0085	0.0052		0.055	20	100	300
chronium * < 0.0010	Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Copper* 0.0043 0.0038 0.039 2 50 100 dercury* < 0.0015	Chromium *	< 0.0010	< 0.0010		0.0067	0.5	10	70
whercury* < 0.0015	Copper *	0.0043	0.0038		0.039	2	50	100
Adolybdenum* 0.0097 0.0048 0.053 0.5 10 30 ickel* 0.0034 0.0043 0.043 0.44 10 40 ead* 0.0050 0.0043 0.043 0.043 0.4 10 40 ead* 0.0050 0.0043 0.043 0.043 0.4 10 40 ead* 0.0050 0.0050 0.043 0.043 0.4 10 50 intimony* < 0.010	Nercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Nickel* 0.0034 0.0043 0.043 0.4 10 40 ead * < 0.0050	Molybdenum *	0.0097	0.0048		0.053	0.5	10	30
ead* < 0.0050	Nickel *	0.0034	0.0043		0.043	0.4	10	40
Animony* < 0.0050 < 0.0050 < 0.020 0.06 0.7 5 Selentum* < 0.010	ead *	< 0.0050	< 0.0050		0.045	0.5	10	50
selentm* < 0.010 < 0.003 < 0.040 0.1 0.5 7 tinc * 0.0055 0.0037 0.039 4 50 200 tinc * 0.0055 0.0037 <15	Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Inc * 0.0055 0.0037 0.039 4 50 200 Chloride * < 4.0	Gelenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Chloride * < 4.0 < 15 800 15000 25000 iluaride 0.98 0.50 5.4 10 150 5000 juphate * 5.1 2.1 24 1000 20000 50000 TDS * 79 42 450 4000 60000 100000 Obs 7.4 19 180 500 800 1000 DOC 7.4 19 180 500 800 1000	linc *	0.0055	0.0037		0.039	4	50	200
Huride 0.98 0.50 5.4 10 150 500 Sighpate * 5.1 2.1 24 1000 20000 50000 DS* 79 42 450 4000 60000 100000 Phenol Index (Monohydric Phenols) * < 0.13	Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
Sulphate* 5.1 2.1 24 1000 20000 50000 TDS* 79 42 450 4000 60000 100000 Phenol Index (Monohydric Phenols)* < 0.13	luoride	0.98	0.50		5.4	10	150	500
TDS* 79 42 450 4000 60000 100000 Phenol Index (Monohydric Phenols) * < 0.13	Sulphate *	5.1	2.1		24	1000	20000	50000
Phenol Index (Monohydric Phenols)* < 0.13 < 0.13 < 0.50 1 . . DOC 7.4 19 180 500 800 1000 DOC 7.4 19 180 500 800 1000 Leach Test Information Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Content (%) Image: Co	FDS*	79	42		450	4000	60000	100000
DOC 7.4 19 180 500 800 1000 Image: Constraint of the sponsible for any discrepancies Image: Constraint of the sponsisple for any discrepancies Image:	Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
Image: second	000	7.4	19		180	500	800	1000
each Test Information Image: Constant of the sponsible for any discrepancies with current legislation Image: Constant of the sponsible for any discrepancies with current legislation Image: Constant of the sponsible for any discrepancies with current legislation Image: Constant of the sponsible for any discrepancies with current legislation Image: Constant of the sponsible for any discrepancies with current legislation Image: Constant of the sponsible for any discrepancies with current legislation Image: Constant of the sponsible for any discrepancies with current legislation Image: Constant of the sponsible for any discrepancies with current legislation Image: Constant of the sponsible for any discrepancies with current legislation Image: Constant of the sponsible for any discrepancies with current legislation Image: Constant and the sponsible for any discrepancies with current legislation Image: Constant and the sponsible for any discrepancies with current legislation Image: Constant and the sponsible for any discrepancies with current legislation Image: Constant and the sponsible for any discrepancies with current legislation Image: Constant and the sponsible for any discrepancies with current legislation Image: Constant and the sponsible for any discrepancies with current legislation Image: Constant and the sponsible for any discrepancies with current legislation Image: Constant and the sponsible for any discrepancies with current legislation Image: Constant and the sponsible for any discrepancies with current legislation Image: Constant and the sponsible for any discrepancies with current legislation Image: Constant and the sponsible								
stone Content (%) < 0.1 <th< th=""> <th< th=""> <td>each lest Information</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<></th<>	each lest Information							
None owner (w) None	Stone Content (%)	< 0.1						
Number of gradient of the sponsible for any discrepancies with current legislation ** = MCERTS accredited	Sample Mass (kg)	1.0						
Adisture (%)	Dry Matter (%)	85						
stage 1 0.32 1 1 1 folume Eluate L2 (litres) 0.32 1 1 1 iltered Eluate VE1 (litres) 0.16 1 1 1 results are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only) tated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited	Aoisture (%)	15					1	
The second secon	Stage 1						1	
iltered Eluate VE1 (litres) 0.16 Image: Constraint of the second se	- /olume Eluate L2 (litres)	0.32						
tesults are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only) tated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited	iltered Eluate VE1 (litres)	0.16						
tesults are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only) tated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation **= MCERTS accredited								
tesults are expressed on a dry weight basis, after correction for moisture content where applicable. * UKAS accredited (liquid eluate analysis only) tated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited								
tated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited	sesults are expressed on a dry weight basis, after correction for moi	sture content wher	e applicable.			* = UKAS accredit	ed (liquid eluate ana	lysis only)
	tated limits are for guidance only and i2 cannot be held responsible	for any discrepant	ies with current legi	slation		** = MCERTS accr	edited	



i2 Analytical

7 Woodshots Meadow Croxley Green Business Park Watford, WD18 8YS Telephone: 01923 225404 Fax: 01923 237404 email:reception@i2analytical.com

Report No:		22-4	9345				
·							
					Client:	ENZYGOGEO	1
Location		Bell Road	Bottisham				
Lab Reference (Sample Number)		222/	1736		Landfill	Waste Acceptance	e Criteria
		222-	730			Limits	
Sampling Date						reactive	
Sample ID		WA	62		Inert Waste	HAZARDOUS	Hazardous
Depth (m)		0.50	1.00		Landfill	waste in non- hazardous	Waste Landfill
Solid Waste Analysis							
OC (%)**	0.5				3%	5%	6%
oss on Ignition (%) **	1.6						10%
3TEX (μg/kg) **	< 10				6000		
Sum of PCBs (mg/kg) **	< 0.30				1		
/lineral Oil (mg/kg) _{EH_1D_CU_AL} #	< 10				500		
otal PAH (WAC-17) (mg/kg)	< 0.85				100		
vH (units)**	8.3					>6	
Acid Neutralisation Capacity (mmol / kg)	13					To be evaluated	To be evaluated
lunte Annie					l institute la co	- f	
ciuate Analysis	2:1	8:1		Cumulative 10:1	Limit value	is for compliance le	eaching test
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN	l/kg (mg/kg)	
Arsenic *	< 0.010	< 0.010		0.055	0.5	2	25
3arium *	0.0087	0.0075		0.076	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0011	0.0013		0.013	0.5	10	70
Copper *	0.0064	0.0039		0.042	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Nolybdenum *	0.015	0.0041		0.053	0.5	10	30
Vickel *	0.0047	0.0050		0.050	0.4	10	40
.ead *	< 0.0050	< 0.0050		< 0.020	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
	0.016	0.0060		0.0/1	4	50	200
unoride ^	< 4.0	< 4.0		< 15	800	15000	25000
-luoride	1.4	0.78		8.4	1000	20000	5000
IDS*	83	2.1		530	1000	60000	10000
Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
	4 0.10	4 0.10		0.00			
)OC	8.6	21		190	500	800	1000
each Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.0						
Dry Matter (%)	85						
foisture (%)	15						
Stage 1							
/olume Eluate L2 (litres)	0.32						
iltered Eluate VE1 (litres)	0.18						
Results are expressed on a dry weight basis, after correction for mol	sture content wher	e applicable.			*= UKAS accredit	ed (liquid eluate ana	lysis only)
tated limits are for guidance only and i2 cannot be held responsible	for any discrepend	cies with current legi	slation		** = MCERTS accr	edited	



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Report No:		22-4	9345				
					Client:	ENZYGOGEO	1
Location		Bell Road	Bottisham				
Lab Reference (Sample Number)					Landfill	Waste Acceptanc	e Criteria
		2222	1/3/			Limits	
Sampling Date						Stable Non-	
Sample ID		WA	C 3		Inert Waste	HAZARDOUS	Hazardous
Depth (m)		0.50	1.00		Landfill	waste in non- hazardous Landfill	Waste Landfill
Solid Waste Analysis							
FOC (%)**	1.0				3%	5%	6%
oss on Ignition (%) **	2.9						10%
3TEX (μg/kg) **	< 10				6000		
um of PCBs (mg/kg) **	< 0.30				1		
/lineral Oil (mg/kg) _{EH_1D_CU_AL} #	< 10				500		
otal PAH (WAC-17) (mg/kg)	< 0.85				100		
vH (units)**	8.4					>6	
Acid Neutralisation Capacity (mmol / kg)	17					To be evaluated	To be evaluated
luate Analysis					Limit value	s for compliance le	aching test
idate Analysis	2:1	8:1		Cumulative 10:1			
BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN	12457-3 at L/S 10	l/kg (mg/kg)
vrsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.0081	0.0069		0.070	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	< 0.0010	< 0.0010		0.0076	0.5	10	70
Copper *	0.0054	0.0031		0.033	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Nolybdenum *	0.0076	0.0038		0.042	0.5	10	30
Nickel *	0.0015	0.0028		0.027	0.4	10	40
ead *	< 0.0050	< 0.0050		0.037	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
linc *	0.010	0.0067		0.071	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
luoride	0.72	0.58		5.9	10	150	500
Sulphate *	4.8	2.1		23	1000	20000	50000
DS*	84	48		510	4000	60000	100000
henol Index (Monohydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
200	7.5	15		140	500	800	1000
and Tast Information							
each rest miormation						ł	
Stone Content (%)	< 0.1	1				1	-
Sample Mass (kg)	1.0	1				1	
Dry Matter (%)	82					1	
foisture (%)	18						
Stage 1						1	
/olume Eluate L2 (litres)	0.31					1	
iltered Eluate VE1 (litres)	0.18					1	
esuits are expressed on a dry weight basis, after correction for mo	sture content when	e applicable.	a la Mara		 UKAS accredit 	ea (liquid eluate ana	iysis only)
tated limits are for guidance only and i2 cannot be held responsible	e for any discrepend	ies with current legi	islation		** = MCERTS accr	edited	
Landfill WAC analysis (specifically leaching test results) must	not be used for h	azardous waste cla	ssification purpos	es as defined by th	e Waste (England	i and Wales) Regul	ations 2011 (as



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Location Bell Road Bottissam Client: EX2/COGED Location Bell Road Bottissam Client: EX2/COGED Sample ID 22221738 Client: EX2/COGED Sample ID WK2 Label Role new (Sample Number) 0.59-100 Intel Waste Acceptance Offstre Sample ID WK2 0.59-100 Intel Waste Acceptance Offstre Number (Sample Number) Sample ID WK2 0.59-100	Report No:		22-4	9345				
Location Bell Road Bottisham Client: ENZYGOGE0 Lab Reference (Sample Number) 2224138 Landfill Waste Acceptance Citeria Sample ID WAC 4 Intel Waste Acceptance Citeria Depth (m) 0.50 1.00 Stable Non- botti Market Acceptance Citeria Son ingrition (k)** 1.1 - - OL (h)** 1.2 - - 10 Stable Non- Son ingrition (k)** 1.3 - - - 10 OL (h)** 1.3 - - - 10 - - Stable Non- Son ingrition (k)** 4.10 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
Location Bell Road Bottsham Client: EXYGOGEO Lab Reference (Sample Number) 2221739 Landfill Waste Acceptance Criteria Sampling Date 2221739 Landfill Waste Acceptance Criteria Depth (m) 0.50-1.00 Inter Masteria Hear Sampling Date								
LoationBell Road BottishamLab Reference (Sample Number)Jub Refer						Client:	ENZYGOGEO	1
LocitionBell Road SUthamLandIII UNIT AND								
Lab Reference (Sample Number) 222223 Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D Sample 1D	Location		Bell Road	Bottisham				
Labor Sampling Date Sampling Date Sample D Sampl	Lab Reference (Sample Number)					Landfill	Naste Acceptanc	e Criteria
Sample IDWL 4Input With a state of the state of			2224	4/38			Limits	
Sample D WK 4 It Multiple Depth (m) Multiple 0.501.00 Multiple Landing Mask house back for back for back house and PCS (my2n) Multiple 0.500.00	Sampling Date						Stable Non-	
Depth (m)Use 1 or orLaddfillWate 1 or or back of	Sample ID		WA	C 4		Inert Waste		Hazardous
bind wates hanaysis or or <td>Depth (m)</td> <td></td> <td>0.50</td> <td>-1.00</td> <td></td> <td>Landfill</td> <td>waste in non- hazardous Landfill</td> <td>Waste Landfill</td>	Depth (m)		0.50	-1.00		Landfill	waste in non- hazardous Landfill	Waste Landfill
OC (0)*)*0.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.40.4 <td>Solid Waste Analysis</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Solid Waste Analysis							
as on spiton (%) **	TOC (%)**	0.4				3%	5%	6%
TFX (upp)** < 00	oss on Ignition (%) **	1.7						10%
um of EQS (my/m)**< 0.00<<	3TEX (µg/kg) **	< 10				6000		
Interal Origon (Dignorge) Sector Sood Sood <t< td=""><td>um of PCBs (mg/kg) **</td><td>< 0.30</td><td></td><td></td><td></td><td>1</td><td></td><td></td></t<>	um of PCBs (mg/kg) **	< 0.30				1		
Instant (MAC-17) (mg/kg) < 0.00	/ineral Oil (mg/kg) _{EH_1D_CU_AL} #	< 10				500		
H (unity)** 8.4 Image: Constraint of the second se	otal PAH (WAC-17) (mg/kg)	< 0.85				100		
https://product index ind)H (units)**	8.4					>6	
But at Analysis 2:1 8:1 Cumulative 10:1 Linit values for compliance leaching less using BS N 12457-3 at L/S 10 l/s (mg/ mg/k SS N 12457 - 3 preparation utilising end over end leaching toreactive) < 0.001	Acid Neutralisation Capacity (mmol / kg)	17					To be evaluated	To be evaluated
12.1 8.1 Currulative 101 Link rade for curring 163 wing	Juato Analysis					Limit value	s for compliance k	aching tost
BS EN 12457 - 3 preparation utilising end over end leaching recedure) mg/l mg/kg using BS EN 1247-3 at US 10 (kg (mg/l) recedure) secolure) 0.0061 0.0063 0.065 20 100 300 sarkum * 0.0061 0.0063 0.066 20 100 300 sarkum * 0.0005 < 0.0005	idate Analysis	2:1	8:1		Cumulative 10:1		is for compliance le	eaching test
system: < 0.010	BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN	12457-3 at L/S 10	l/kg (mg/kg)
anum * 0.0081 0.0065 0.065 20 100 30 admium * < 0.0005	rsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
admium * < 0.0005	3arium *	0.0081	0.0063		0.065	20	100	300
chronum.* < 0.0010 < 0.0010 0.0091 0.0.5 10 70 Copper * 0.0059 < 0.0030	Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Copper* 0.0059 < 0.0030 0.031 2 50 100 dercury* < 0.0015	Chromium *	< 0.0010	< 0.0010		0.0091	0.5	10	70
dercury* < 0.0015 < 0.0010 0.01 0.2 2 Molybdenum* 0.0069 0.0049 0.052 0.5 10 30 Molybdenum* 0.0024 0.0043 0.041 0.4 10 40 Lead* < 0.0050	Copper *	0.0059	< 0.0030		0.031	2	50	100
0.0069 0.0049 0.052 0.5 10 30 Wickel* 0.0024 0.0043 0.041 0.4 10 40 ead* < 0.0050	Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
wickel* 0.0024 0.0043 0.041 0.4 10 44 e.ad * < 0.0050	Molybdenum *	0.0069	0.0049		0.052	0.5	10	30
.ead * < 0.0050	Nickel *	0.0024	0.0043		0.041	0.4	10	40
Initianay* < 0.0050	ead *	< 0.0050	< 0.0050		0.042	0.5	10	50
selentum* < 0.010	Antimony *	< 0.0050	< 0.0050		0.043	0.06	0.7	5
line * 0.0078 0.0028 0.034 4 50 200 chloride * < 4.0	Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Chloride * < 4.0	linc *	0.0078	0.0028		0.034	4	50	200
Hundle 0.70 0.51 5.3 10 150 500 Sulphate * 4.5 2.0 23 1000 20000 5000 DS* 83 47 510 4000 60000 1000 Phenol Index (Monohydric Phenols) * < 0.13	Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
Subjects* 4.5 2.0 2.3 1000 20000 500 IDS* 83 47 510 4000 60000 1000 Dehenol Index (Monohydric Phenols)* < 0.13	luoride	0.70	0.51		5.3	10	150	500
1DS* 83 47 510 4000 60000 1000 Phenol Index (Monohydric Phenols) * < 0.13	Sulphate *	4.5	2.0		23	1000	20000	50000
The not index (Wohnydric Phenois)* < 0.13 < 0.13 < 0.13 < 0.13 < 0.13 < 0.13 < 0.13 < 0.13 < 0.13 < 0.10 DOC 8.7 15 150 500 800 100	DS*	83	4/		510	4000	60000	100000
DOC 8.7 15 150 500 800 100 Image: Constraint of the second of the	henol Index (Monohydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
Image: second	200	8.7	15		150	500	800	1000
Image: Construction	each Test Information							
Stone Content (%) < 0.1 <th< th=""> </th<> <td>each rest miormation</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	each rest miormation							
Sample Mass (kg) 1.0 Image: Constraint of the same difference of the same differ	Stone Content (%)	< 0.1	1				1	
Ory Matter (%) 84 Image: Constraint of the second basis of the	Sample Mass (kg)	1.0						
Adisture (%) 16 Image: Constraint of the second se	Dry Matter (%)	84						
Stage 1 0.31 0.31 0.31 folume Eluate L2 (litres) 0.31 0.31 0.31 iltered Eluate VE1 (litres) 0.20 0.31 0.31 tesults are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only)	Noisture (%)	16						
Interest of the second seco	Stage 1		_				_	
illered Eluate VE1 (litres) 0.20 Image: Constraint of the second	/olume Eluate L2 (litres)	0.31						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only)	iltered Eluate VE1 (litres)	0.20						
tesults are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only)								
tesults are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only)								
tated limits are far guidance only and i2 cannot be held recommible for any discremencies with surrent locialation	tesults are expressed on a dry weight basis, after correction for mo	sture content wher	e applicable.			* = UKAS accredit	ed (liquid eluate ana	lysis only)
tarea minis are in guidance only and 12 cannot be rield responsible for any discrepencies with current registration ** = MCERTS accredited	tated limits are for guidance only and i2 cannot be held responsible	e for any discrepend	cies with current leg	islation		** = MCERTS accr	edited	



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Report No:		22-49	9345				
					Client:	ENZYGOGEO	
Location		Bell Road	Bottisham				
Lab Reference (Sample Number)		222/	1730		Landfill	Waste Acceptance	e Criteria
		2227	1137			Limits	
Sampling Date		14/4	0.5			reactive	
Sample ID		WA	0.5		Inert Waste	HAZARDOUS	Hazardous
Depth (m)		0.50-	-1.00		Landfill	waste in non- hazardous	Waste Landfill
Solid Waste Analysis							-
OC (%)**	0.4				3%	5%	6%
oss on Ignition (%) **	1.7						10%
BTEX (µg/kg) **	< 10				6000		
Sum of PCBs (mg/kg) **	< 0.30				1		
/lineral Oil (mg/kg) EH_1D_CU_AL #	< 10				500		
otal PAH (WAC-17) (mg/kg)	< 0.85				100		
vH (units)**	8.5					>6	
Acid Neutralisation Capacity (mmol / kg)	24					To be evaluated	To be evaluated
lunte Archurie					l institute la co	- f	
cluate Analysis	2:1	8:1		Cumulative 10:1	Limit value	is for compliance le	eaching test
BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN	l/kg (mg/kg)	
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
3arium *	0.0088	0.0065		0.068	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	< 0.0010	< 0.0010		0.0066	0.5	10	70
Copper *	0.0067	0.0038		0.042	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	0.0055	0.0030		0.033	0.5	10	30
Nickel *	0.0020	0.0040		0.037	0.4	10	40
.ead *	< 0.0050	< 0.0050		0.037	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
linc *	0.0098	0.0040		0.047	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
luoride	0.95	0.66		6.9	10	150	500
Sulphate ^	4.7	2.0		24	1000	20000	50000
Donal Index (Menabydria Dhanala) *	- 0.12	44		480	4000	60000	100000
nenor maex (wohonyanc menors)	< 0.13	< 0.13		< 0.50	I	-	-
200	8.9	15		140	500	800	1000
aash Tast Information							
	-		├			1	
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.0	1				İ	
Dry Matter (%)	84	1				l	
Noisture (%)	16						
Stage 1							
/olume Eluate L2 (litres)	0.31						
iltered Eluate VE1 (litres)	0.22						
asults are expressed on a dry weight basis after correction for mo	isture content when	e applicable			*= UKAS accredit	ed (liquid eluate ana	lysis only)
	stars content Wildi	o opplicable.			- okas acciedit	sa (iiquiù ciuate alla	., ony)
test of the two sectors and a sector sector to the		1					



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Report No:		22-4	9345				
					Client:	ENZYGOGEO)
Location		Bell Road	Bottisham				
Lab Reference (Sample Number)					Landfill	Waste Acceptanc	e Criteria
Lab Reference (Sample Number)		2224	4740			Limits	
Sampling Date						Stable Non-	
Sample ID		WA	C 6		Inert Waste		Hazardous
Depth (m)		0.50	-1.00		Landfill	waste in non- hazardous Landfill	Waste Landfill
Solid Waste Analysis							
TOC (%)**	0.4				3%	5%	6%
oss on Ignition (%) **	1.2						10%
3TEX (µg/kg) **	< 10				6000		
um of PCBs (mg/kg) **	< 0.30				1		
/ineral Oil (mg/kg) EH_1D_CU_AL #	< 10				500		
otal PAH (WAC-17) (mg/kg)	< 0.85				100		
oH (units)**	8.4					>6	
Acid Neutralisation Capacity (mmol / kg)	17					To be evaluated	To be evaluated
lusto Apolucio					Limit value	for compliance la	aching tost
ciuate Analysis	2:1	8:1		Cumulative 10:1		es for compliance le	eaching test
BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN	12457-3 at L/S 10	l/kg (mg/kg)
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
3arium *	0.0065	0.0062		0.062	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	< 0.0010	< 0.0010		0.0062	0.5	10	70
Copper *	0.0057	0.0038		0.040	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	0.0062	< 0.0030		0.033	0.5	10	30
Nickel *	0.0034	0.0041		0.040	0.4	10	40
ead *	< 0.0050	< 0.0050		0.039	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.0075	0.0039		0.043	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
luoride	1.0	0.63		6.7	10	150	500
Sulphate *	3.5	2.0		22	1000	20000	50000
FDS*	77	47		500	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
000	9.0	18		170	500	800	1000
each rest mormation						<u> </u>	
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.0					<u> </u>	
Dry Matter (%)	87	1	1			ł	
Noisture (%)	13	1	1			ł	
Stage 1	-	1				1	
- /olume Eluate L2 (litres)	0.33					1	
iltered Eluate VE1 (litres)	0.20					1	
esults are expressed on a dry weight basis, after correction for mo	sture content wher	e applicable.			*= UKAS accredit	ed (liquid eluate ana	iysis only)
tated limits are for guidance only and i2 cannot be held responsible	e tor any discrepend	cies with current leg	Islation		** = MCERTS accr	edited	
Landfill WAC analysis (specifically leaching test results) must	not be used for h	azardous waste cla	assification purpos	es as defined by th	e Waste (England	l and Wales) Regul	ations 2011 (as



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Report No:		22-4	9345				
					Client:	ENZYGOGEO)
Location		Bell Road	Bottisham				
Lab Reference (Sample Number)					Landfill	Naste Acceptanc	ce Criteria
Lab Reference (Sample Number)		2224	1/41			Limits	
Sampling Date						Stable Non-	
Sample ID		WA	C 7		Inert Waste	HAZARDOUS	Hazardous
Depth (m)		0.50	-1.00		Landfill	waste in non- hazardous Landfill	Waste Landfill
Solid Waste Analysis							
OC (%)**	0.2				3%	5%	6%
oss on Ignition (%) **	1.0						10%
TEX (µg/kg) **	< 10				6000		
um of PCBs (mg/kg) **	< 0.30				1		
fineral Oil (mg/kg) EH_1D_CU_AL #	< 10				500		
otal PAH (WAC-17) (mg/kg)	< 0.85				100		
/H (units)**	8.6					>6	
cid Neutralisation Capacity (mmol / kg)	20					To be evaluated	To be evaluate
luate Analysis		-			Limit value	s for compliance le	aching test
Iuate Analysis	2:1	8:1		Cumulative 10:1			eaching test
BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN	i l/kg (mg/kg)	
vrsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.0088	0.0061		0.064	20	100	300
Cadmium *	< 0.0005	0.0008		0.0067	0.04	1	5
Chromium *	< 0.0010	< 0.0010		0.0074	0.5	10	70
Copper *	0.0047	< 0.0030		0.025	2	50	100
Nercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Nolybdenum *	0.0049	< 0.0030		0.026	0.5	10	30
Nickel *	0.0032	0.0032		0.032	0.4	10	40
.ead *	< 0.0050	< 0.0050		0.032	0.5	10	50
Intimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
elenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
linc *	0.0085	0.0063		0.066	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
luoride	0.51	0.38		4.0	10	150	500
Sulphate *	8.6	2.3		30	1000	20000	50000
DS*	84	41		460	4000	60000	100000
henol Index (Monohydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
200	7.4	9.4		92	500	800	1000
each Test Information							
itone Content (%)	< 0.1						
ample Mass (kg)	1.0						
Dry Matter (%)	85						
foisture (%)	15						
Stage 1		ļ					
/olume Eluate L2 (litres)	0.32						
iltered Eluate VE1 (litres)	0.20						
esults are expressed on a dry weight basis, after correction for mo	isture content whe	e applicable.		I I	*= UKAS accredit	ed (liquid eluate ana	ilysis only)
tated limits are for guidance only and i2 cannot be held responsible	e for any discrepen	cies with current leg	islation		** = MCERTS accr	edited	



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Report No:		22-49	9345				
					Client:	ENZYGOGEO	1
Location		Bell Road	Bottisham				
Lab Reference (Sample Number)		222/	1740		Landfill	Naste Acceptanc	e Criteria
		2224	1142			Limits	
Sampling Date						reactive	
Sample ID		WA	68		Inert Waste	HAZARDOUS	Hazardous
Depth (m)		0.50-	1.00		Landfill	waste in non- hazardous	Waste Landfill
Solid Waste Analysis						Landin	
FOC (%)**	0.2				3%	5%	6%
oss on Ignition (%) **	1.2						10%
3TEX (μg/kg) **	< 10				6000		
Sum of PCBs (mg/kg) **	< 0.30				1		
/lineral Oil (mg/kg) _{EH_1D_CU_AL} #	< 10				500		
otal PAH (WAC-17) (mg/kg)	< 0.85				100		
vH (units)**	8.4					>6	
Acid Neutralisation Capacity (mmol / kg)	17					To be evaluated	To be evaluated
lunte Annie					l institute la co	- f	
luate Analysis	2:1	8:1		Cumulative 10:1	Limit value	is for compliance le	eaching test
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN	l/kg (mg/kg)	
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
3arium *	0.011	0.0068		0.071	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0012	< 0.0010		0.010	0.5	10	70
Copper *	< 0.0010	< 0.0030		< 0.020	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Nolybdenum *	0.0047	0.0038		0.039	0.5	10	30
Nickel *	0.0027	0.0034		0.033	0.4	10	40
.ead *	< 0.0050	< 0.0050		0.030	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
linc *	0.0085	0.0026		0.031	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
luoride	0.47	0.38		3.8	10	150	500
	12	2.7		34	1000	20000	100000
Donal Index (Manabydric Phonals) *	< 0.12	- 0.12	-	430	4000	80000	100000
neior maex (wohonyane menois)	< 0.15	< 0.15		< 0.50	I	-	-
200	7.1	8.5		83	500	800	1000
each Test Information							
Saur rest mornation							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.0						
Dry Matter (%)	85						
Noisture (%)	15						
Stage 1							
/olume Eluate L2 (litres)	0.32						
iltered Eluate VE1 (litres)	0.14						
Results are expressed on a dry weight basis, after correction for mo	sture content wher	e applicable.			* = UKAS accredit	ed (liquid eluate ana	lysis only)
stated limits are for guidance only and i2 cannot be held responsible	for any discrepend	ies with current lea	slation		** - MCEDTS	edited	
and the second and the second and the second responsible					= INICERIS dCC	cuiteu	



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Report No:		22-4	9345				
					Client:	ENZYGOGEO)
Location		Bell Road	Bottisham				
Lab Reference (Sample Number)					Landfill	Naste Acceptanc	e Criteria
Lab Reference (Sample Number)		2224	1743			Limits	
Sampling Date						Stable Non-	
Sample ID		WA	С9		Inert Waste		Hazardous
Depth (m)		0.50	1.00		Landfill	waste in non- hazardous Landfill	Waste Landfill
Solid Waste Analysis							
TOC (%)**	0.2				3%	5%	6%
oss on Ignition (%) **	1.2						10%
3TEX (µg/kg) **	< 10				6000		
um of PCBs (mg/kg) **	< 0.30				1		
/ineral Oil (mg/kg) EH_1D_CU_AL #	< 10				500		
otal PAH (WAC-17) (mg/kg)	< 0.85				100		
oH (units)**	8.5					>6	
Acid Neutralisation Capacity (mmol / kg)	18					To be evaluated	To be evaluated
lusto Apolucio					Limit volus	s for compliance is	ashing tost
idate Analysis	2:1	8:1		Cumulative 10:1		is for compliance le	eaching test
BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN	12457-3 at L/S 10	l/kg (mg/kg)
rsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
3arium *	0.0096	0.0057		0.061	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0013	< 0.0010		0.0065	0.5	10	70
Copper *	0.0038	< 0.0030		0.027	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	0.0044	< 0.0030		0.026	0.5	10	30
Nickel *	0.0032	0.0032		0.032	0.4	10	40
ead *	< 0.0050	< 0.0050		0.041	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.0071	0.0032		0.036	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
Fluoride	0.43	0.35		3.6	10	150	500
Sulphate *	12	2.9		38	1000	20000	50000
rDS*	83	38		430	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
000	7.5	9.3		91	500	800	1000
and Tast Information							
.each rest million							
Stone Content (%)	< 0.1						-
Sample Mass (kg)	1.0	İ				İ	
Dry Matter (%)	85	İ				İ	
foisture (%)	15						
Stage 1							
/olume Eluate L2 (litres)	0.31						
iltered Eluate VE1 (litres)	0.18						
sesults are expressed on a dry weight basis, after correction for mo	sture content wher	e applicable.			*= UKAS accredit	ed (liquid eluate ana	lysis only)
tated limits are for guidance only and i2 cannot be held responsible	for any discrepend	cies with current leg	islation		** = MCERTS accr	edited	



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Report No:		22-4	9345				
					Client:	ENZYGOGEC)
Location		Bell Road	Bottisham				
Lab Reference (Sample Number)		2224	1744		Landfill	Naste Acceptano	ce Criteria
						Limits Stoble Non	
Sampling Date		10/0/	10			reactive	
Sample ID		WAG	, 10		Inert Waste	HAZARDOUS	Hazardous
Depth (m)		0.50	1.00		Landfill	waste in non- hazardous Landfill	Waste Landfill
Solid Waste Analysis							
FOC (%)**	0.6				3%	5%	6%
oss on Ignition (%) **	2.1						10%
3TEX (µg/kg) **	< 10				6000		
um of PCBs (mg/kg) **	< 0.30				1		
/lineral Oil (mg/kg) _{EH_1D_CU_AL} #	< 10				500		
otal PAH (WAC-17) (mg/kg)	< 0.85				100		
)H (units)**	8.5					>6	
Acid Neutralisation Capacity (mmol / kg)	18					To be evaluated	To be evaluate
Juato Analysis					Limit value	s for complianco k	aching tost
Idate Analysis	2:1	8:1		Cumulative 10:1		is for compliance in	l/kg (mg/kg)
BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN	12457-3 at L/S 10	i l/kg (mg/kg)
vrsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
3arium *	0.0084	0.0081		0.081	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	< 0.0010	0.0011		0.011	0.5	10	70
Copper *	0.0064	0.0043		0.045	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	0.0039	0.0031		0.032	0.5	10	30
Nickel *	0.0030	0.0044		0.043	0.4	10	40
.ead *	< 0.0050	< 0.0050		0.038	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
linc *	0.0063	0.0049		0.051	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
luoride	0.95	0.69		/.1	10	150	500
suprate "	5.0	2.3		20	1000	20000	50000
DS"	83	52		550	4000	60000	100000
nenor maex (wohonyanc Phenois)	< 0.15	< 0.15		< 0.50	1	-	-
200	8.2	20		190	500	800	1000
_each Test Information							
							İ
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.0						
Dry Matter (%)	85						
foisture (%)	15						
Stage 1							
/olume Eluate L2 (litres)	0.31						
iltered Eluate VE1 (litres)	0.16						
tesults are expressed on a dry weight basis, after correction for mo	sture content wher	e applicable.			*= UKAS accredit	ed (liquid eluate ana	ilysis only)
tated limits are for guidance only and i2 cannot be held responsible	e for any discrepend	cies with current legi	islation		** = MCERTS accr	edited	





Analytical Report Number : 22-49345 Project / Site name: Bell Road Bottisham

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2224735	WAC 1	None Supplied	0.50-1.00	Light brown clay and sand.
2224736	WAC 2	None Supplied	0.50-1.00	Light brown clay and sand with gravel.
2224737	WAC 3	None Supplied	0.50-1.00	Brown clay and sand with gravel and vegetation.
2224738	WAC 4	None Supplied	0.50-1.00	Light brown clay and sand with gravel and chalk.
2224739	WAC 5	None Supplied	0.50-1.00	Light brown clay and sand with gravel.
2224740	WAC 6	None Supplied	0.50-1.00	Light brown clay and sand with gravel.
2224741	WAC 7	None Supplied	0.50-1.00	Light brown clay and sand.
2224742	WAC 8	None Supplied	0.50-1.00	Light brown clay and sand.
2224743	WAC 9	None Supplied	0.50-1.00	Light brown clay and sand.
2224744	WAC 10	None Supplied	0.50-1.00	Brown clay and sand with gravel and vegetation.





Analytical Report Number : 22-49345 Project / Site name: Bell Road Bottisham

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

	1	1			
Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Preparation WAC leachate		In-house method	L043-PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-PL	W	ISO 17025
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031-PL	W	NONE
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	ISO 17025
PCB's by GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil in Soil C10 - C40	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L076-PL	D	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L023-PL	D	MCERTS

Analytical Report Number : 22-49345 Project / Site name: Bell Road Bottisham

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom. For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.