CO– OPERATIVE GROUP LIMITED

FACTUAL REPORT

on

GROUND INVESTIGATION

at

2&3 ANGEL SQUARE

MANCHESTER

JULY 2015

REPORT NO: 763315

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Table of Contents

1	**INTRODUCTION**	**4**
2	**SITE DESCRIPTION**	**5**
	2.1 Location and Topography	
	2.2 Geology	
3	**FIELDWORK**	**6**
4	**LABORATORY TESTING**	**8**
5	**REFERENCES**	**9**
	APPENDIX A	**i**
	(i) Site Location Plan	
	(ii) Exploratory Hole Location Plan	
	APPENDIX B	**ii**
	(i) Key to Exploratory Hole Logs	
	(ii) Trial Pit Logs	
	(iii) Stockpile Sample Logs	
	APPENDIX C	**iii**
	(i) Contamination Laboratory Test Results	
	(ii) Laboratory UKAS Accreditation Certificate	
	APPENDIX D	**iv**
	(i) Gas/Groundwater Monitoring Results	
	APPENDIX E	**v**
	(i) Unexploded Ordnance Report	

1 INTRODUCTION

This investigation was carried out on the instructions of Buro Happold (the Engineer) on behalf of the Co-operative Group Ltd (the Client). The purpose of the work was to investigate ground conditions, provide information for the design of foundations and for an assessment of the contamination status of the site. The work included an intrusive investigation, geotechnical laboratory testing, post fieldwork gas and groundwater monitoring and the preparation of a factual report.

The ground investigation has been carried out using machine excavated trial pits. The work was carried out in general accordance with the recommendations of BS5930: 1999 *Code of Practice for Site Investigations: including amendment A2 (2010).* Whilst every attempt is made to record full details of the strata encountered in the exploratory holes, techniques of hole formation and sampling will inevitably lead to disturbance, mixing or loss of material in some soils and rocks.

A comprehensive desk study, other than an inspection of geological maps, has not been requested or undertaken as part of this investigation.

All information given in this report is based on the ground conditions encountered during the site work, and on the results of laboratory and field tests performed during the investigation. However, there may be conditions at the ~~site which~~site that have not been taken into account, such as unpredictable soil strata, contaminant concentrations, and water conditions between or below exploratory holes. It should be noted that groundwater levels, gas concentrations and gas flows usually vary due to seasonal and/or other effects and may at times differ to those measured during the investigation.

This report was prepared by Structural Soils Limited for the sole and exclusive use of Buro Happold and Co-operative Group Ltd in response to particular instructions. Any other parties using the information contained in this report do so at their own risk and any duty of care to those parties is excluded.

2 SITE DESCRIPTION

2.1 Location and Topography

The site is located in Manchester City Centre adjacent to Angel Street, Miller Street and Rochdale Road. The site is currently owned by the Co-operative Group Ltd and is used as public car parking controlled by Total Car Parks (see Site Location Plan in Appendix A). The area of the site is approximately 120m x 90m. The British National Grid Reference of the site is SJ 843 990.

The site generally slopes from east to west and can be split into two area separated by an existing rough S-shaped embankment. The site is covered with hardstanding comprising compacted gravel, asphalt, cobbles and concrete. The concrete base of a former structure is located in the western part of the site. The northern/eastern portion of the site is currently heras fenced off due to an archaeological excavation of Arkwrights Mill. The excavation is currently open and as such is bordered on two sides by excavated material (stockpiles) with two small stockpiles within the centre.

The site is surrounded by roads to the north, east and south and by the new Co-operative office building to the west (No.1 Angel Square). Vehicle access is gained from Angel Street on the northern boundary.

The site is located in a predominantly residential and commercial area close to Manchester City Centre.

2.2 Geology

The British Geological Survey maps (sheet 85. drift, scale 1:63,500, published 1970 and sheet 85, solid, scale 1:50,000, published 1975) show the site to be underlain by an unspecified thickness of boulder clay (Glacial Till). This is shown to be underlain by strata of the Sherwood Sandstone Group of Permo-Triassic age. Two faults trending NW to SE are shown to the west and to the east of the site. The fault to the west is named the Ardwick Fault. The down throw is shown to the east of the fault. Made Ground associated with previous use on the site is expected.

3 FIELDWORK

3.1 Scope of Works

The fieldwork was carried out between 26 January and 28 January 2015. The scope of works comprised eleven mechanically excavated trial pits and sampling from four existing stockpiles at ten locations which were sampled for potential contamination.

Prior to the commencement of any exploratory hole or intrusive test a scan for buried services was carried out using a cable avoidance tool (CAT) and signal generator ('genny').

Tests for Unexploded Ordnance (UXO) was carried out using magnetometer testing equipment in all trial pits to 1.20m depth, UXO report contained in Appendix E.

An Archaeologist was also present throughout site works to highlight and identify areas of high importance.

3.2 Mechanically Excavated Trial Pits

The trial pits were excavated using a mechanical excavator JCB 3CX and were approximately 1.00m x 3.00m in plan area and between 0.30m and 2.80 m deep. At shallow depths a toothless bucket was adopted to limit damage to potential foundations and/or UXO's, with a toothed bucket being used only once more competent natural material was encountered. Thirteen trial pits were excavated at eleven locations (TP1 to TP11) with TP4A and TP10A re-excavated to account for archaeological foundations and hardstanding respectively. A suite of contamination samples were taken and returned to the laboratory for testing. Trial pits were backfilled using compacted arisings and made safe.

Redundant water drains were encountered and damaged in two trial pits (TP5 and TP8). The Engineer instructed that repairs were not required.

3.3 Stockpiles

Ten locations within the existing stockpiles were excavated using a mechanical excavator JCB 3CX and were approximately 0.30m x 0.30m in plan area and approximately 0.30m deep. A suite of contamination samples were taken and returned to the laboratory for testing. Each stockpile location was backfilled using arisings and made safe.

3.4 Logging and Sampling

The exploratory holes were logged by an engineer in general accordance with the recommendations of BS5930: 1999 (2010 Amendment 2, which incorporates the requirements of BS EN ISO 14688-1, 14688-2 and 14689-1), Detailed descriptions, together with relevant comments, are given on the trial pit and stockpile sample logs included in Appendix B.

Water samples were also requested at one trial pit location (TP5) for the purposes of testing.

On completion, photographs were taken, before being backfilled with arisings. Photographs of the trial pits and stockpiles are contained in Appendix B.

3.5 Surveying

On completion of the works, a survey of the trial pit and stockpile sample locations was undertaken by a specialist surveyor, Cheshire Surveys, using Global Positioning System (GPS) equipment. The coordinates of each exploratory hole were measured relative to British National Grid, and the level relative to Ordnance Datum. These are shown on the exploratory hole logs contained in Appendix B which have been printed with a reduced level column.

3.6 Monitoring and Post Field Work Environmental Sampling

It was requested that monitoring of three historic borehole locations from a previous phase of works (NOMA Plot L - 2013) was carried out for gas and groundwater. Only one location was accessible BHL01. BHL02A and BHL03 were not accessible as a result of being lost beneath overburden. A total of three visits were carried out between February and June 2015.

An infrared red gas meter is used to measure concentrations from wells in all boreholes. Carbon Dioxide (CO_2), methane (CH_4) and oxygen (O_2) are recorded by percentage volume, while hydrogen sulphide (H_2S) and Carbon dioxide (CO_2) are recorded in parts per million. Initial and steady state conditions are recorded together with differential pressure are recorded.

The results together with the temporal (weather) conditions are tabulated in Appendix D.

4 LABORATORY TESTING

Samples for potential contamination testing were sent to Envirolab, an accredited chemical testing laboratory. Contamination tests were scheduled by the Engineer.

Contamination testing was carried out in accordance with MCERTs/UKAS standards. The results are reported in Appendix C of this report, along with the accreditation certificate for the laboratory.

4.1 Contamination

Nineteen soil samples were analysed for the Buro Happold Soil General Suite and Leachate General Suite. Four samples were found to contain asbestos in the form of Chrysotile (TP1 0.30m ES1, TP2 0.30m ES1, TP4A 2.00m ES3 and TP10A 1.00m ES2) – an asbestos in soil % composition (hand picking and weighing) test was carried out in addition to the Buro Happold Soil Suite. The results are presented in Appendix C.

Table 1: Summary of Contamination Laboratory Testing

Number of tests	Test	Test Method	Notes
Chemical Tests: Soil			
19	General Soil Suite of Contaminants		Including Asbestos Testing
19	General Leachate Suite of Contaminants		
1	General Water Suite of Contaminants		
10	Waste Acceptance Criteria – Full WAC	WAC E 2 Stage	
9	Visual inspection of stockpile sample for asbestos (including fibre screen) Bulk fibre identification		

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5 REFERENCES

5.1 BS 5930:1999 *Code of Practice for Site Investigation,* including amendment A2 (2010)

5.2 British Geological Survey Manchester sheet 85 scale 1:50,000, published 1975 and 1:63,000, published 1970.

5.3 BS EN ISO 14688-1:2002 *Geotechnical investigation and testing – Identification and classification of soil: Part 1: Identification and description*

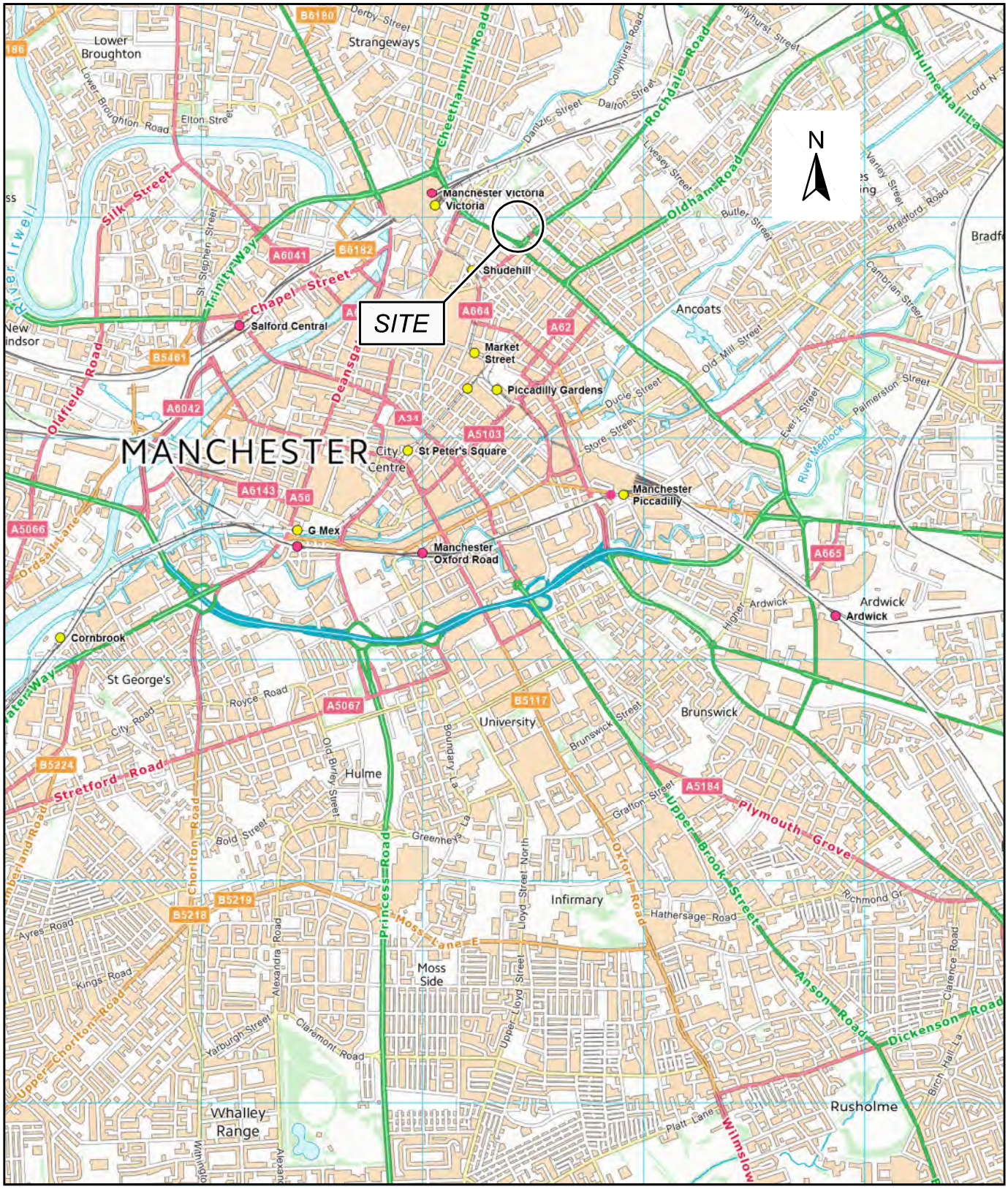
5.4 BS EN ISO 14688-1:2004 *Geotechnical investigation and testing – Identification and classification of soil: Part 2: Principles for a classification*

5.5 BS EN ISO 14689-1:2003 *Geotechnical investigation and testing – Identification and classification of rock: Part 1: Identification and description*

APPENDIX A

(i) Site Location Plan

(ii) Exploratory Hole Location Plan



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REV.	DATE	DESCRIPTION	BY	CHD.	APR.
00	18.02.2015	-	MW	GR	-

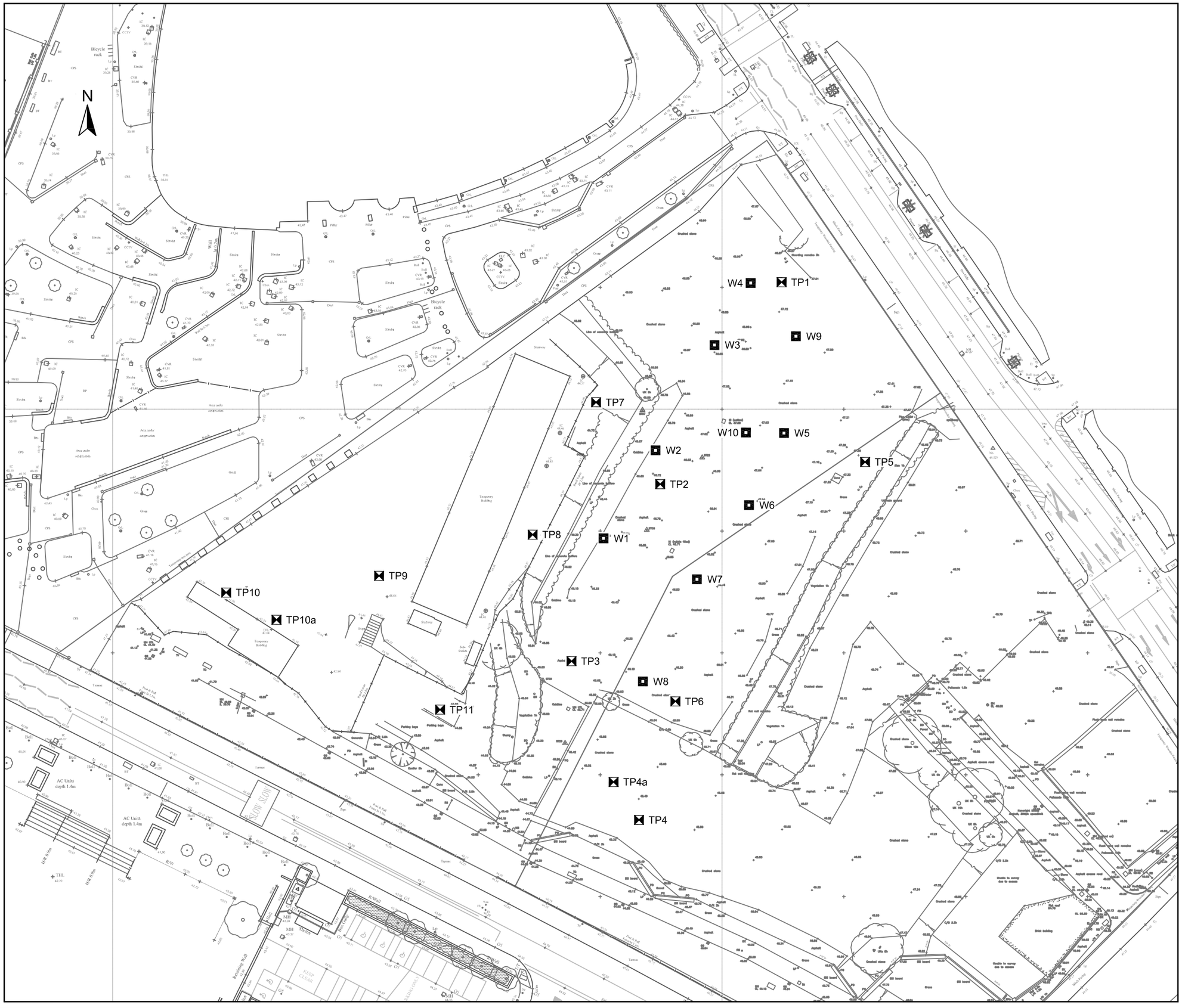
CLIENT: NOMA (GP) Ltd

PROJECT: 2&3 Angel Square, Manchester

TITLE: SITE LOCATION MAP

DIMENSION	SCALE	DRAWING STATUS
m	1:25,000	-

CONTRACT No	GRID REFERENCE	SCALE BAR	ORIGIN SIZE	FIGURE No
763315	SJ 843 990	0 250 500 750 1000m	A4	1



LEGEND

- Trial Pit Location
- WAC Stockpile Locations

REV	DATE	DESCRIPTION	BY	CHD	APR
01	18.02.2015	-	MW	GR	-

DIMENSION	SCALE	ORIGIN SIZE
m	1:600	A3

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CLIENT

NOMA (GP) Ltd

PROJECT

2&3 Angel Square, Manchester

TITLE

EXPLORATORY HOLE LOCATION PLAN

JOB NO	FIGURE
763315	2

DRAWING STATUS	REV
-	01

SCALE BAR

0 5 10 15 20 25 30m

APPENDIX B

(i) Key to Exploratory Hole Logs

(ii) Trial Pit Logs

(iii) Stockpile Sample Logs

STRUCTURAL SOILS

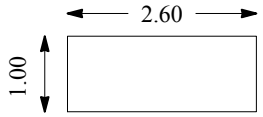
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP1**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**45.66**	**E:384409.8 N:399020.8**	**1** of **3**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.00-0.55	1	B				MADE GROUND: Black brown clayey slightly sandy subangular to subrounded fine to coarse GRAVEL of brick and ash with high cobble and medium boulder content.			
0.30	1	ES	Tx2, Jx2, Vx2					(0.80)	
0.70	2	ES	Tx2, Jx2, Vx2				44.86	0.80	
						Stiff brown silty CLAY with pockets of grey silt and rare gravel of coal.			
1.00-1.50	2	B		≈				(0.70)	
							44.16	1.50	
						Trial pit terminated at 1.50m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's - trial pit clear.
2. Slight groundwater seepage at 1.10m.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:13 | GR.
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FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP1**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**45.66**	**E:384409.8 N:399020.8**	**2** of **3**

TP1 Face A





TP1 Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

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FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP1**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**45.66**	**E:384409.8 N:399020.8**	**3** of **3**

TP1 Face C





TP1 Face D

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

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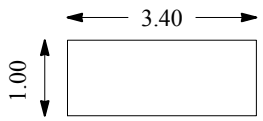
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP2**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**46.23**	**E:384389.9 N:398987.7**	**1** of **3**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: BRICKWORK.	46.15	0.08	
						MADE GROUND: Black brown slightly clayey slightly sandy angular to subangular fine to coarse GRAVEL of brick and sandstone with medium cobble content.	46.08	0.15	
0.30	1	ES	Tx2, Jx2, Vx2			Stiff brown mottled light blue silty slightly sandy CLAY with rare fine gravel of sandstone and coal.		(0.85)	
0.90	2	ES	Tx2, Jx2, Vx2				45.23	1.00	
0.90-1.00	3	B				Trial pit terminated at 1.00m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's - trial pit clear.
2. No groundwater encountered whilst excavating.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

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FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP2**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**46.23**	**E:384389.9 N:398987.7**	**2** of **3**

TP2 Face A





TP2 Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:14 | GR.
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FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP2**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**46.23**	**E:384389.9 N:398987.7**	**3** of **3**

TP2 Face C





TP2 Face D

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

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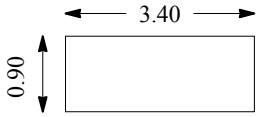
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP3**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**45.86**	**E:384375.3 N:398958.6**	**1** of **3**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.30	1	ES	Tx2, Jx2, Vx2			Stiff light brown mottled blue silty slightly sandy CLAY with rare fine to medium gravel of sandstone and coal.		(1.00)	
0.90	2	ES	Tx2, Jx2, Vx2				44.86	1.00	
						Trial pit terminated at 1.00m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's - trial pit clear.
2. No groundwater encountered whilst excavating.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

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FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP3**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**45.86**	**E:384375.3 N:398958.6**	**2** of **3**

TP3 Face A





TP3 Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

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FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP3**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**45.86**	**E:384375.3 N:398958.6**	**3** of **3**

TP3 Face C





TP3 Face D

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:19 | GR.
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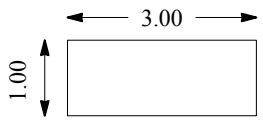
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP4**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**45.48**	**E:384386.4 N:398932.6**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.00-0.20	1	B				MADE GROUND: Black slightly sandy locally slightly clayey angular to subangular fine to coarse GRAVEL of ash, brick and metals with high cobble and medium boulder content.		(0.80)	
0.40	1	ES	Tx2, Jx2, Vx2				44.68	0.80	
						MADE GROUND: BRICK foundations.		(0.50)	
							44.18	1.30	
						Trial pit terminated at 1.30m depth due to foundations in absence of archaeologist.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's - trial pit clear.
2. No groundwater encountered whilst excavating.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:19 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP4**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**45.48**	**E:384386.4 N:398932.6**	**2** of **2**

TP4 Face A





TP4 Face C

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:19 | GR.
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STRUCTURAL SOILS

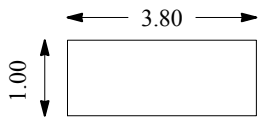
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP4a**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**27.01.15** End: **27.01.15**	**45.47**	**E:384382.2 N:398938.8**	**1** of **3**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.50	1	ES	Tx2, Jx2, Vx2			MADE GROUND: Black slightly sandy locally slightly clayey angular to subangular fine to coarse GRAVEL of ash, brick and metals with high cobble and medium boulder content.			
1.00	2	ES	Tx2, Jx2, Vx2			. . . below 0.10m, wire rope.		(2.40)	
2.00	3	ES	Tx2, Jx2, Vx2				43.07	2.40	
						Trial pit terminated at 2.40m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's - trial pit clear.
2. No groundwater encountered whilst excavating.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:20 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP4a**
Contract Ref:	Start: **27.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **27.01.15**	**45.47**	**E:384382.2 N:398938.8**	**2** of **3**

TP4a Face A





TP4a Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:20 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP4a**
Contract Ref:	Start: **27.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **27.01.15**	**45.47**	**E:384382.2 N:398938.8**	**3** of **3**

TP4a Face C





TP4a Face D

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:21 | GR.
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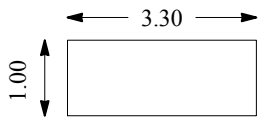
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP5**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**27.01.15** End: **27.01.15**	**47.37**	**E:384423.5 N:398991.3**	**1** of **3**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Light brown mottled light grey orange sandy angular to subangular fine to coarse GRAVEL of brick, glass and coal with high cobble content and brickwork present.			
0.50	1	ES				. . . below 0.65m, orange brown medium sand.			
						. . . below 0.80m, redundant water drain (100mm diameter) damaged.		(1.80)	
1.40	2	ES							
				≈			45.57	1.80	
1.80	3	EW				MADE GROUND: Black sandy angular to subangular fine to coarse GRAVEL in clayey matrix with pottery and snail shells.			
1.80	3	ES						(0.40)	
							45.17	2.20	
						Stiff to very stiff light brown mottled light blue silty locally slightly sandy CLAY.		(0.30)	
2.40	4	ES					44.87	2.50	
						Trial pit terminated at 2.50m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's - water pipe detected.
2. Slight seepage of water at 1.80m.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:21 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP5**
Contract Ref:	Start: **27.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **27.01.15**	**47.37**	**E:384423.5 N:398991.3**	**2** of **3**

TP5 Face A





TP5 Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:22 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP5**
Contract Ref:	Start: **27.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **27.01.15**	**47.37**	**E:384423.5 N:398991.3**	**3** of **3**

TP5 Face C





TP5 Face D

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:22 | GR.
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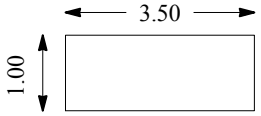
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP6**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**27.01.15**	**46.02**	**E:384392.4 N:398952.1**	**1** of **3**
	End: **27.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.40	1	ES	Tx2, Jx2, Vx2			MADE GROUND: Black sandy angular to subangular fine to coarse GRAVEL of ash, brick and glass with high cobble and low boulder content.	45.52	(0.50) 0.50	
0.70	2	ES	Tx2, Jx2, Vx2			Stiff to very stiff light brown mottled light blue silty locally sandy CLAY.			
1.50	3	ES	Tx2, Jx2, Vx2				44.02	(1.50) 2.00	
						Trial pit terminated at 2.00m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's - trila pit clear.
2. No groundwater encountered whilst excavating.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:22 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP6**
Contract Ref:	Start: **27.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **27.01.15**	**46.02**	**E:384392.4 N:398952.1**	**2** of **3**

TP6 Face A





TP6 Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:23 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP6**
Contract Ref:	Start: **27.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **27.01.15**	**46.02**	**E:384392.4 N:398952.1**	**3** of **3**

TP6 Face C





TP6 Face D

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:24 | GR.
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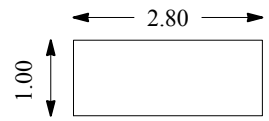
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP7**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**28.01.15** End: **28.01.15**	**44.74**	**E:384379.3 N:399001.1**	**1** of **3**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: ASPHALT.	44.64	0.10	
						Light grey dark grey angular medium to coarse GRAVEL of limestone.	44.44	0.30	
0.40	1	ES	Tx2, Jx2, Vx2	≈		Black dark grey sandy angular to subrounded fine to coarse GRAVEL of ash, brick and sandstone.	44.24	0.50	
0.80	2	ES	Tx2, Jx2, Vx2			Very stiff light brown mottled light blue slightly sandy silty CLAY.	43.24	(1.00) 1.50	
						Trial pit terminated at 1.50m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's - trial pit clear.
2. Slight seepage of water at 0.50m.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:24 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP7**
Contract Ref:	Start: **28.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **28.01.15**	**44.74**	**E:384379.3 N:399001.1**	**2** of **3**

TP7 Face A





TP7 Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:25 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP7**
Contract Ref:	Start: **28.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **28.01.15**	**44.74**	**E:384379.3 N:399001.1**	**3** of **3**

TP7 Face C





TP7 Face D

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:26 | GR.
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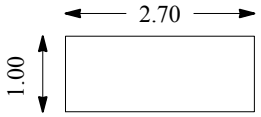
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP8**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**28.01.15**	**44.62**	**E:384368.9 N:398979.4**	**1** of **3**
	End: **28.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: ASPHALT.	44.52	0.10	
						Light grey dark grey angular medium to coarse GRAVEL of limestone.	44.42	0.20	
0.30	1	ES	Tx2, Jx2, Vx2			Black slightly clayey sandy angular to subangular fine to coarse GRAVEL of brick, ash and sandstone with low cobble content.		(0.50)	
						. . . below 0.65m, redundant water drain (100mm diameter) damaged.	43.92	0.70	
0.80	2	ES	Tx2, Jx2, Vx2			Stiff to very stiff light brown mottled light blue silty slightly sandy CLAY		(1.00)	
						Trial pit terminated at 1.70m depth.	42.92	1.70	

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's - water pipe detected.
2. No groundwater encountered whilst excavating.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:29 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP8**
Contract Ref:	Start: **28.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **28.01.15**	**44.62**	**E:384368.9 N:398979.4**	**2** of **3**

TP8 Face A





TP8 Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:29 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP8**
Contract Ref:	Start: **28.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **28.01.15**	**44.62**	**E:384368.9 N:398979.4**	**3** of **3**

TP8 Face C





TP8 Face D

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:30 | GR.
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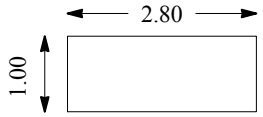
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP9**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**28.01.15** End: **28.01.15**	**44.48**	**E:384343.7 N:398972.7**	**1** of **3**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: ASPHALT.	44.38	0.10	
						MADE GROUND: Light grey dark grey angular medium to coarse GRAVEL of limestone.	44.18	0.30	
0.25	1	ES	Tx2, Jx2, Vx2			MADE GROUND: Black sandy angular to subangular fine to coarse GRAVEL of ash, brick and sandstone.	44.03	0.45	
						Very stiff light brown mottled light blue silty slightly sandy CLAY.		(0.85)	
1.00	2	ES	Tx2, Jx2, Vx2				43.18	1.30	
						Trial pit terminated at 1.30m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's- trial pit clear.
2. No groundwater encountered whilst excavating.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP9**
Contract Ref:	Start: **28.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **28.01.15**	**44.48**	**E:384343.7 N:398972.7**	**2** of **3**

TP9 Face A





TP9 Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:31 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP9**
Contract Ref:	Start: **28.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **28.01.15**	**44.48**	**E:384343.7 N:398972.7**	**3** of **3**

TP9 Face C





TP9 Face D

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:31 | GR.
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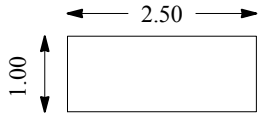
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP10**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**27.01.15**	**41.67**	**E:384318.6 N:398969.9**	**1** of **2**
	End: **27.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Light grey angular coarse GRAVEL.	41.57	0.10	
						MADE GROUND: Light brown gravelly fine to medium SAND. Gravel is angular medium to coarse limestone and brick.	41.37	0.30	
						Trial pit terminated at 0.30m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's- trial pit clear.
2. No groundwater encountered whilst excavating.
3. Trial pit terminated at 0.30m due to hard standing asphalt, unable to penetrate.
4. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP10**
Contract Ref:	Start: **27.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **27.01.15**	**41.67**	**E:384318.6 N:398969.9**	**2** of **2**



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:32 | GR.
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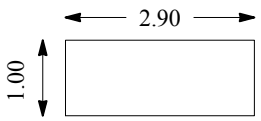
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP10a**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**27.01.15** End: **27.01.15**	**42.35**	**E:384326.9 N:398965.4**	**1** of **3**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Light grey dark grey clayey slightly sandy angular to subangular fine to coarse GRAVEL of limestone.	42.05	(0.30) 0.30	
0.40	1	ES	Tx2, Jx2, Vx2			MADE GROUND: Black dark grey angular to subrounded fine to coarse sandy GRAVEL of ash, brick and sandstone, including brickwork. . . . below 0.50m, waste materials including old shoes, plastic ties, fabrics.			
1.00	2	ES	Tx2, Jx2, Vx2					(2.50)	
2.00	3	ES	Tx2, Jx2, Vx2						
2.60	4	ES	Tx2, Jx2, Vx2			. . . below 2.50m, no waste materials.	39.55	2.80	
						Trial pit terminated at 2.80m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried servoces and UXO's - trial pit clear.
2. No groundwater encountered whilst excavating.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:32 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP10a**
Contract Ref:	Start: **27.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **27.01.15**	**42.35**	**E:384326.9 N:398965.4**	**2** of **3**

TP10a Face A





TP10a Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:33 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP10a**
Contract Ref:	Start: **27.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **27.01.15**	**42.35**	**E:384326.9 N:398965.4**	**3** of **3**

TP10a Face C





TP10a Face D

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:33 | GR.
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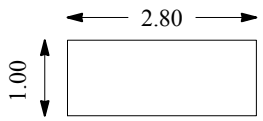
FINAL TRIAL PIT LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**TP11**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**28.01.15** End: **28.01.15**	**43.81**	**E:384353.7 N:398950.7**	**1** of **3**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Black slightly clayey sandy angular to subrounded fine to coarse GRAVEL of brick and ash.		(0.60)	
0.30	1	ES	Tx2, Jx2, Vx2				43.21	0.60	
						MADE GROUND: Orange brown fine to medium SAND.			
						. . . at 0.70m, electric cables, no signals detected.	43.01	0.80	
						MADE GROUND: Black dark grey slightly clayey sandy angular to subangular fine to coarse GRAVEL of brick and ash.		(0.70)	
0.90	2	ES	Tx2, Jx2, Vx2						
						. . . below 1.30m, brown sandy clayey angular to subrounded fine to coarse gravel of ash and sandstone.			
1.40	3	ES	Tx2, Jx2, Vx2				42.31	1.50	
						Trial pit terminated at 1.50m depth.			

Plan (Not to Scale)



General Remarks

1. Trial pit scanned every 0.30m to detect both buried services and UXO's.
2. No groundwater encountered whilst excavating.
3. Trial pit backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:34 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP11**
Contract Ref:	Start: **28.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **28.01.15**	**43.81**	**E:384353.7 N:398950.7**	**2** of **3**

TP11 Face A





TP11 Face B

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:34 | GR.
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STRUCTURAL SOILS

FINAL TRIAL PIT LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**TP11**
Contract Ref:	Start: **28.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **28.01.15**	**43.81**	**E:384353.7 N:398950.7**	**3** of **3**

TP11 Face C



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:35 | GR.
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STRUCTURAL SOILS

FINAL
STOCKPILE SAMPLE LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**W1**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**46.94**	**E:384380.5 N:398978.8**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	ES	0.50m T + J			MADE GROUND: Black slightly clayey slightly sandy angular fine to coarse GRAVEL of ash and brick with high cobble content.		(0.50)	
							46.44	0.50	
						Car Park Level			

General Remarks

1. Trial pit excavated into existing stockpile to obtain sample.
2. Elevation at which sample was recovered reported with samples containers.
3. Backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:38 | GR.
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STRUCTURAL SOILS

FINAL STOCKPILE SAMPLE LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**W1**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**46.94**	**E:384380.5 N:398978.8**	**2** of **2**

W1



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:38 | GR.
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STRUCTURAL SOILS

FINAL
STOCKPILE SAMPLE LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**W2**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**47.22**	**E:384389.1 N:398993.3**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	ES	1.00m T+J			MADE GROUND: Black slightly clayey slightly sandy angular fine to coarse GRAVEL of ash, glass, tile and brick with high cobble content.		(1.00)	
							46.22	1.00	
						Car Park Level			

General Remarks

1. Trial pit excavated into existing stockpile to obtain sample.
2. Elevation at which sample was recovered reported with samples containers.
3. Backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:38 | GR.
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STRUCTURAL SOILS

FINAL STOCKPILE SAMPLE LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**W2**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**47.22**	**E:384389.1 N:398993.3**	**2** of **2**

W2



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:39 | GR.
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STRUCTURAL SOILS

FINAL
STOCKPILE SAMPLE LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**W3**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**47.70**	**E:384398.8 N:399010.5**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	ES	2.00m T+J			MADE GROUND: Light brown black slightly clayey sandy angular fine to coarse GRAVEL of ash, brick and asbestos identified at surface.		(2.00)	
							45.70	2.00	
						Car Park Level			

General Remarks

1. Trial pit excavated into existing stockpile to obtain sample.
2. Elevation at which sample was recovered reported with samples containers.
3. Backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:39 | GR.
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STRUCTURAL SOILS

FINAL STOCKPILE SAMPLE LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**W3**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**47.70**	**E:384398.8 N:399010.5**	**2** of **2**

W3



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:39 | GR.
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STRUCTURAL SOILS

FINAL
STOCKPILE SAMPLE LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**W4**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**47.49**	**E:384404.7 N:399020.7**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	ES	1.00m T+J			MADE GROUND: Black clayey slightly sandy angular fine to coarse GRAVEL of ash, membrane and brick with high cobble content.		(1.00)	
							46.49	1.00	
						Car Park Level			

General Remarks

1. Trial pit excavated into existing stockpile to obtain sample.
2. Elevation at which sample was recovered reported with samples containers.
3. Backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:39 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL STOCKPILE SAMPLE LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**W4**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**47.49**	**E:384404.7 N:399020.7**	**2** of **2**

W4



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:39 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL
STOCKPILE SAMPLE LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**W5**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**47.79**	**E:384410.2 N:398996.1**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	ES	1.50m T+J			MADE GROUND: Black clayey slightly sandy angular fine to coarse GRAVEL of ash, brick and occasional asphalt.	46.29	(1.50) 1.50	
						Car Park Level			

General Remarks

1. Trial pit excavated into existing stockpile to obtain sample.
2. Elevation at which sample was recovered reported with samples containers.
3. Backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:40 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL STOCKPILE SAMPLE LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**W5**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**47.79**	**E:384410.2 N:398996.1**	**2** of **2**

W5



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:40 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL
STOCKPILE SAMPLE LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**W6**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**47.11**	**E:384404.4 N:398984.3**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	ES	0.30m T+J			MADE GROUND: Black brown clayey slightly sandy angular fine to coarse GRAVEL of ash, brick and sandstone with high cobble content.	46.81	(0.30) 0.30	
						Car Park Level			

General Remarks

1. Trial pit excavated into existing stockpile to obtain sample.
2. Elevation at which sample was recovered reported with samples containers.
3. Backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:40 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL STOCKPILE SAMPLE LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**W6**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**47.11**	**E:384404.4 N:398984.3**	**2** of **2**

W6



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:40 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL
STOCKPILE SAMPLE LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**W7**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**47.23**	**E:384395.9 N:398972.1**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	ES	1.00m T+J			MADE GROUND: Black sandy angular fine to coarse GRAVEL of ash, brick and asbestos identified at surface with high cobble and medium boulder content.		(1.00)	
							46.23	1.00	
						Car Park Level			

General Remarks

1. Trial pit excavated into existing stockpile to obtain sample.
2. Elevation at which sample was recovered reported with samples containers.
3. Backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:40 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL STOCKPILE SAMPLE LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**W7**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**47.23**	**E:384395.9 N:398972.1**	**2** of **2**

W7



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:41 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL
STOCKPILE SAMPLE LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**W8**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**46.50**	**E:384387.0 N:398955.3**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	ES	0.80m T+J			MADE GROUND: Soft to firm brown mottled light blue CLAY with black brown gravel of ash with low cobble and low boulder content.	45.70	(0.80) 0.80	
						Car Park Level			

General Remarks

1. Trial pit excavated into existing stockpile to obtain sample.
2. Elevation at which sample was recovered reported with samples containers.
3. Backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:41 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL STOCKPILE SAMPLE LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**W8**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**46.50**	**E:384387.0 N:398955.3**	**2** of **2**

W8



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:41 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL
STOCKPILE SAMPLE LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**W9**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**47.45**	**E:384412.1 N:399012.0**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	ES	0.50m T+J			MADE GROUND: Black slightly sandy angular fine to coarse GRAVEL of ash and brick.		(0.50)	
							46.95	0.50	
						Car Park Level			

General Remarks

1. Trial pit excavated into existing stockpile to obtain sample.
2. Elevation at which sample was recovered reported with samples containers.
3. Backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:41 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL STOCKPILE SAMPLE LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**W9**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**47.45**	**E:384412.1 N:399012.0**	**2** of **2**

W9



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:41 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL
STOCKPILE SAMPLE LOG

Contract:	Client:	Trial Pit:
2&3 Angel Square	**Buro Happold**	**W10**

Contract Ref:	Start:	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	**26.01.15**	**46.89**	**E:384403.9 N:398996.2**	**1** of **2**
	End: **26.01.15**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	ES	0.30m T+J			MADE GROUND: Black brown slightly clayey sandy angular fine to coarse GRAVEL of ash and brick with medium cobble content.	46.59	(0.30) 0.30	
						Car Park Level			

General Remarks

1. Trial pit excavated into existing stockpile to obtain sample.
2. Elevation at which sample was recovered reported with samples containers.
3. Backfilled on completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:41 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

STRUCTURAL SOILS

FINAL STOCKPILE SAMPLE LOG

Contract:		Client:		Trial Pit:
2&3 Angel Square		**Buro Happold**		**W10**
Contract Ref:	Start: **26.01.15**	Ground Level (m):	National Grid Co-ordinate:	Sheet:
763315	End: **26.01.15**	**46.89**	**E:384403.9 N:398996.2**	**2** of **2**

W10



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**GRushton**	CAH

GINT_LIBRARY_V8_05.GLB LibVersion: v8_05 - Lib0004 PrjVersion: v8_05 - Core+Logs 0003 | Log TRIAL PIT LOG - NO PLAN | 763315 ANGEL SQUARE.GPJ - v8_05 | 10/04/15 - 16:42 | GR.
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.

APPENDIX C

(i) Contamination Laboratory Test Results

(ii) Laboratory UKAS Accreditation Certificate

Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 15/00553
Issue Number: 1 **Date:** 12 February, 2015

Client:
Structural Soils Limited (Castleford)
The Potteries
Pottery Street
Castleford
West Yorkshire
UK
WF10 1NJ

Project Manager: Gemma Rushton/Richard Law
Project Name: Angel Square
Project Ref: 763315
Order No: N/A
Date Samples Received: 30/01/15
Date Instructions Received: 03/02/15
Date Analysis Completed: 12/02/15

Prepared by:

Georgia King
Administrative Assistant

Approved by:

Iain Haslock
Analytical Consultant

UKAS TESTING
1247

Envirolab Job Number: 15/00553

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00553/1								Units	Method ref
Client Sample No										
Client Sample ID	TP5									
Depth to Top	1.80									
Depth To Bottom										
Date Sampled	27-Jan-15									
Sample Type	Water - EW									
MCERTS Sample Matrix Code	N/A									
pH (w)$_A^\#$	7.16								pH	A-T-031w
Electrical conductivity @ 20degC (w)$_A^\#$	915								µs/cm	A-T-037w
Hardness Total$_A^\#$	433								mg/l Ca CO3	A-T-049w
Chloride (w)$_A^\#$	32.51								mg/l	A-T-026w
Fluoride (w)$_A^\#$	0.45								mg/l	A-T-026w
Sulphate (w)$_A^\#$	71								mg/l	A-T-026w
Cyanide (total) (w)$_A^\#$	<0.005								mg/l	A-T-042wTCN
Phenols - Total by HPLC (w)$_A$	<0.01								mg/l	A-T-050w
Sulphide (w)$_A$	<0.1								mg/l	A-T-S2-w
DOC (w)$_A^\#$	4.7								mg/l	A-T-032w
Antimony (dissolved)$_A^\#$	4								µg/l	A-T-025w
Arsenic (dissolved)$_A^\#$	5								µg/l	A-T-025w
Boron (dissolved)$_A^\#$	167								µg/l	A-T-025w
Cadmium (dissolved)$_A^\#$	<1								µg/l	A-T-025w
Copper (dissolved)$_A^\#$	<1								µg/l	A-T-025w
Chromium (dissolved)$_A^\#$	<1								µg/l	A-T-025w
Lead (dissolved)$_A^\#$	<1								µg/l	A-T-025w
Mercury (dissolved)$_A^\#$	<0.1								µg/l	A-T-025w
Nickel (dissolved)$_A^\#$	3								µg/l	A-T-025w
Selenium (dissolved)$_A^\#$	<1								µg/l	A-T-025w
Zinc (dissolved)$_A^\#$	2								µg/l	A-T-025w
BTEX - Benzene (w)$_A^\#$	<1								µg/l	A-T-022w
BTEX - Toluene (w)$_A^\#$	<1								µg/l	A-T-022w
BTEX - Ethyl Benzene (w)$_A^\#$	<1								µg/l	A-T-022w
BTEX - m & p Xylene (w)$_A^\#$	<1								µg/l	A-T-022w
BTEX - o Xylene (w)$_A^\#$	<1								µg/l	A-T-022w
MTBE (w)$_A^\#$	<1								µg/l	A-T-022w
VPH total (>C5-C10) (w)$_A^\#$	<1								µg/l	A-T-022w
EPH Total (w) with ID										
EPH Total (>C10-C36) (w) $_A^\#$	<50								µg/l	A-T-023w
EPH ID (w) (for FID characterisations)$_A$	N/A									A-T-023w

Envirolab Job Number: 15/00553

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00553/1								Units	Method ref
Client Sample No										
Client Sample ID	TP5									
Depth to Top	1.80									
Depth To Bottom										
Date Sampled	27-Jan-15									
Sample Type	Water - EW									
MCERTS Sample Matrix Code	N/A									
PAH 16MS (w)										
Acenaphthene $(w)_A^{\#}$	0.01								µg/l	A-T-019w
Acenaphthylene $(w)_A^{\#}$	<0.01								µg/l	A-T-019w
Anthracene $(w)_A^{\#}$	0.01								µg/l	A-T-019w
Benzo(a)anthracene $(w)_A^{\#}$	0.01								µg/l	A-T-019w
Benzo(a)pyrene $(w)_A^{\#}$	0.02								µg/l	A-T-019w
Benzo(b)fluoranthene $(w)_A^{\#}$	0.02								µg/l	A-T-019w
Benzo(ghi)perylene $(w)_A^{\#}$	0.03								µg/l	A-T-019w
Benzo(k)fluoranthene $(w)_A^{\#}$	0.02								µg/l	A-T-019w
Chrysene $(w)_A^{\#}$	0.03								µg/l	A-T-019w
Dibenzo(ah)anthracene $(w)_A^{\#}$	0.01								µg/l	A-T-019w
Fluoranthene $(w)_A^{\#}$	0.03								µg/l	A-T-019w
Fluorene $(w)_A^{\#}$	<0.01								µg/l	A-T-019w
Indeno(123-cd)pyrene $(w)_A^{\#}$	0.02								µg/l	A-T-019w
Naphthalene $(w)_A^{\#}$	<0.01								µg/l	A-T-019w
Phenanthrene $(w)_A^{\#}$	0.02								µg/l	A-T-019w
Pyrene $(w)_A^{\#}$	0.03								µg/l	A-T-019w
PAH (total 16) $(w)_A^{\#}$	0.26								µg/l	A-T-019w

Envirolab Job Number: 15/00553

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00553/1								Units	Method ref
Client Sample No										
Client Sample ID	TP5									
Depth to Top	1.80									
Depth To Bottom										
Date Sampled	27-Jan-15									
Sample Type	Water - EW									
MCERTS Sample Matrix Code	N/A									
Speciated PCB-EC7 (w)										
PCB BZ 28 $(w)_A^{\#}$	<0.001								µg/l	A-T-004w
PCB BZ 52 $(w)_A^{\#}$	<0.001								µg/l	A-T-004w
PCB BZ 101 $(w)_A^{\#}$	<0.001								µg/l	A-T-004w
PCB BZ 118 $(w)_A^{\#}$	<0.002								µg/l	A-T-004w
PCB BZ 138 $(w)_A^{\#}$	<0.001								µg/l	A-T-004w
PCB BZ 153 $(w)_A^{\#}$	<0.001								µg/l	A-T-004w
PCB BZ 180 $(w)_A^{\#}$	<0.001								µg/l	A-T-004w

REPORT NOTES

Notes - Soil chemical analysis
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis. For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General
This report shall not be reproduced, except in full, without written approval from Envirolab.
Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.
All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.
All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts.
Superscript "M" indicates method accredited to MCERTS.
If results are in italic font they are associated with an AQC failure. These are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

TPH analysis of water by method A-T-007
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Asbestos in soil
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if present as discrete fibres/fragments. Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified a being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER.
Samples with Matrix Code 7 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations.

Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT
SUPPLEMENT TO TEST REPORT 15/00554/3

Envirolab Job Number: 15/00554
Issue Number: 4 **Date:** 19 June, 2015

Client:
Structural Soils Limited (Castleford)
The Potteries
Pottery Street
Castleford
West Yorkshire
UK
WF10 1NJ

Project Manager: Gemma Rushton/Richard Law
Project Name: Angel Square
Project Ref: 763315
Order No: N/A
Date Samples Received: 28/01/15
Date Instructions Received: 03/02/15
Date Analysis Completed: 18/06/15

Prepared by:



Melanie Marshall
Laboratory Coordinator

Approved by:



Lianne Bromiley
Senior Client Manager

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/1	15/00554/2	15/00554/3	15/00554/4	15/00554/5	15/00554/7	15/00554/8	15/00554/9	Units	Method ref
Client Sample No	1	2	1	2	1	1	1	2		
Client Sample ID	TP1	TP1	TP2	TP2	TP3	TP4	TP4a	TP4a		
Depth to Top	0.30	0.70	0.30	0.90	0.30	0.40	0.50	1.00		
Depth To Bottom										
Date Sampled	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	27-Jan-15	27-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	5A	5	5AB	3	6A	4AB	4AB	4AB		
% Stones >10mm$_A$ #	<0.1	-	<0.1	-	<0.1	24.2	-	-	% w/w	A-T-044
% Stones >10mm$_A$ #	<0.1	-	<0.1	-	<0.1	24.2	-	-	% w/w	A-T-044
pH$_D$ M#	8.64	-	8.61	-	8.44	8.54	-	-	pH	A-T-031s
Sulphate (water sol 2:1)$_D$ M#	0.03	-	0.02	-	0.06	0.04	-	-	g/l	A-T-026s
Cyanide (free)$_A$ M#	<1	-	<1	-	<1	<1	-	-	mg/kg	A-T-042sFCN
Cyanide (total)$_A$ M#	1	-	<1	-	<1	<1	-	-	mg/kg	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	-	<0.2	-	<0.2	<0.2	-	-	mg/kg	A-T-050s
Loss on ignition (550degC)$_D$	9.5	-	7.0	-	5.0	5.5	-	-	% w/w	A-T-030s
Organic matter$_D$ M#	6.8	-	4.4	-	1.9	5.8	-	-	% w/w	A-T-032 OM
Total Organic Carbon$_D$ M#	3.93	-	2.53	-	1.09	3.36	-	-	% w/w	A-T-032s
Arsenic$_D$ M#	17	-	20	-	2	15	-	-	mg/kg	A-T-024s
Boron (water soluble)$_D$ M#	<1.0	-	2.7	-	3.3	<1.0	-	-	mg/kg	A-T-027s
Cadmium$_D$ M#	1.0	-	2.9	-	0.5	1.1	-	-	mg/kg	A-T-024s
Copper$_D$ M#	92	-	55	-	21	371	-	-	mg/kg	A-T-024s
Chromium$_D$ M#	24	-	13	-	27	23	-	-	mg/kg	A-T-024s
Chromium (hexavalent)$_D$	<1	-	<1	-	<1	<1	-	-	mg/kg	A-T-040s
Lead$_D$ M#	245	-	253	-	11	1890	-	-	mg/kg	A-T-024s
Mercury$_D$	<0.17	-	0.19	-	<0.17	0.65	-	-	mg/kg	A-T-024s
Nickel$_D$ M#	29	-	25	-	29	21	-	-	mg/kg	A-T-024s
Selenium$_D$ M#	2	-	2	-	1	2	-	-	mg/kg	A-T-024s
Zinc$_D$ M#	239	-	352	-	49	591	-	-	mg/kg	A-T-024s
EPH Total (>C10-C36) $_A$ #	110	-	28	-	<10	132	-	-	mg/kg	A-T-023s
BTEX - Benzene$_A$ #	<0.01	-	<0.01	-	<0.01	<0.01	-	-	mg/kg	A-T-022s
BTEX - Toluene$_A$ #	<0.01	-	<0.01	-	<0.01	<0.01	-	-	mg/kg	A-T-022s
BTEX - Ethyl Benzene$_A$ #	<0.01	-	<0.01	-	<0.01	<0.01	-	-	mg/kg	A-T-022s
BTEX - m & p Xylene$_A$ #	<0.01	-	<0.01	-	<0.01	<0.01	-	-	mg/kg	A-T-022s
BTEX - o Xylene$_A$ #	<0.01	-	<0.01	-	<0.01	<0.01	-	-	mg/kg	A-T-022s
MTBE$_A$ #	<0.01	-	<0.01	-	<0.01	<0.01	-	-	mg/kg	A-T-022s
Mineral Oil (>C10-C40)$_A$	22	-	<10	-	<10	<10	-	-	mg/kg	A-T-007s
VPH total (>C5-C10)$_A$ #	<0.01	-	<0.01	-	<0.01	<0.01	-	-	mg/kg	A-T-022s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/1	15/00554/2	15/00554/3	15/00554/4	15/00554/5	15/00554/7	15/00554/8	15/00554/9	Units	Method ref
Client Sample No	1	2	1	2	1	1	1	2		
Client Sample ID	TP1	TP1	TP2	TP2	TP3	TP4	TP4a	TP4a		
Depth to Top	0.30	0.70	0.30	0.90	0.30	0.40	0.50	1.00		
Depth To Bottom										
Date Sampled	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	27-Jan-15	27-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	5A	5	5AB	3	6A	4AB	4AB	4AB		
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_A^{\#}$	Chrysotile	NAD	Chrysotile	NAD	NAD	NAD	NAD	NAD		A-T-045
Asbestos Matrix (microscope)$_A$	Loose Fibres	-	Loose Fibres	-	-	-	-	-		A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Gravimetry
Asbestos in Soil Quantification % Composition (Hand Picking & Weighing)										

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/1	15/00554/2	15/00554/3	15/00554/4	15/00554/5	15/00554/7	15/00554/8	15/00554/9	Units	Method ref
Client Sample No	1	2	1	2	1	1	1	2		
Client Sample ID	TP1	TP1	TP2	TP2	TP3	TP4	TP4a	TP4a		
Depth to Top	0.30	0.70	0.30	0.90	0.30	0.40	0.50	1.00		
Depth To Bottom										
Date Sampled	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	27-Jan-15	27-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	5A	5	5AB	3	6A	4AB	4AB	4AB		
PAH 16										
Acenaphthene$_A^{M\#}$	0.23	-	0.05	-	<0.01	1.13	-	-	mg/kg	A-T-019s
Acenaphthylene$_A^{M\#}$	0.01	-	<0.01	-	<0.01	0.03	-	-	mg/kg	A-T-019s
Anthracene$_A^{M\#}$	0.67	-	0.21	-	<0.02	2.20	-	-	mg/kg	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	1.10	-	0.33	-	<0.04	4.48	-	-	mg/kg	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	1.40	-	0.45	-	<0.04	5.47	-	-	mg/kg	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	1.51	-	0.53	-	<0.05	6.81	-	-	mg/kg	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.82	-	0.36	-	<0.05	3.31	-	-	mg/kg	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.81	-	0.32	-	<0.07	2.77	-	-	mg/kg	A-T-019s
Chrysene$_A^{M\#}$	1.47	-	0.49	-	<0.06	4.82	-	-	mg/kg	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	0.18	-	0.08	-	<0.04	0.72	-	-	mg/kg	A-T-019s
Fluoranthene$_A^{M\#}$	2.71	-	0.77	-	<0.08	10.8	-	-	mg/kg	A-T-019s
Fluorene$_A^{M\#}$	0.13	-	0.03	-	<0.01	0.69	-	-	mg/kg	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.86	-	0.35	-	<0.03	3.46	-	-	mg/kg	A-T-019s
Naphthalene$_A^{M\#}$	0.06	-	<0.03	-	<0.03	0.23	-	-	mg/kg	A-T-019s
Phenanthrene$_A^{M\#}$	1.70	-	0.46	-	<0.03	6.39	-	-	mg/kg	A-T-019s
Pyrene$_A^{M\#}$	2.41	-	0.73	-	<0.07	9.20	-	-	mg/kg	A-T-019s
PAH (total 16)$_A^{M\#}$	16.1	-	5.17	-	<0.08	62.5	-	-	mg/kg	A-T-019s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/1	15/00554/2	15/00554/3	15/00554/4	15/00554/5	15/00554/7	15/00554/8	15/00554/9	Units	Method ref
Client Sample No	1	2	1	2	1	1	1	2		
Client Sample ID	TP1	TP1	TP2	TP2	TP3	TP4	TP4a	TP4a		
Depth to Top	0.30	0.70	0.30	0.90	0.30	0.40	0.50	1.00		
Depth To Bottom										
Date Sampled	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	27-Jan-15	27-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	5A	5	5AB	3	6A	4AB	4AB	4AB		
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.002	-	<0.002	-	<0.002	<0.002	-	-	mg/kg	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	-	<0.002	-	<0.002	<0.002	-	-	mg/kg	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	-	<0.004	-	<0.004	<0.004	-	-	mg/kg	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	-	<0.007	-	<0.007	<0.007	-	-	mg/kg	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	-	<0.006	-	<0.006	<0.006	-	-	mg/kg	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	-	<0.004	-	<0.004	<0.004	-	-	mg/kg	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	-	<0.004	-	<0.004	<0.004	-	-	mg/kg	A-T-004s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/10	15/00554/12	15/00554/13	15/00554/14	15/00554/15	15/00554/17	15/00554/18	15/00554/19	Units	Method ref
Client Sample No	3	2	3	4	1	3	1	2		
Client Sample ID	TP4a	TP5	TP5	TP5	TP6	TP6	TP7	TP7		
Depth to Top	2.00	1.40	1.80	2.50	0.40	1.50	0.40	0.80		
Depth To Bottom										
Date Sampled	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	28-Jan-15	28-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	4AB	4AE	4A	3A	5AB	5A	4AB	5A		
% Stones >10mm$_A^{\#}$	<0.1	9.2	7.6	<0.1	7.5	<0.1	28.5	7.3	% w/w	A-T-044
% Stones >10mm$_A^{\#}$	<0.1	9.2	7.6	<0.1	7.5	<0.1	28.5	7.3	% w/w	A-T-044
pH$_D^{M\#}$	8.51	8.34	8.03	9.17	8.41	8.57	9.90	9.71	pH	A-T-031s
Sulphate (water sol 2:1)$_D^{M\#}$	0.07	0.02	0.11	0.06	0.05	0.06	0.14	0.06	g/l	A-T-026s
Cyanide (free)$_A^{M\#}$	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-042sFCN
Cyanide (total)$_A^{M\#}$	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	mg/kg	A-T-050s
Loss on ignition (550degC)$_D$	8.1	16.1	14.3	3.9	8.4	3.4	4.4	2.7	% w/w	A-T-030s
Organic matter$_D^{M\#}$	4.7	25.3	12.8	1.2	13.2	1.2	5.3	1.6	% w/w	A-T-032 OM
Total Organic Carbon$_D^{M\#}$	2.72	14.7	7.39	0.71	7.68	0.67	3.08	0.94	% w/w	A-T-032s
Arsenic$_D^{M\#}$	14	27	8	<1	24	4	6	<1	mg/kg	A-T-024s
Boron (water soluble)$_D^{M\#}$	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	mg/kg	A-T-027s
Cadmium$_D^{M\#}$	1.5	0.5	0.7	<0.5	0.7	0.5	0.6	<0.5	mg/kg	A-T-024s
Copper$_D^{M\#}$	641	209	139	16	177	23	33	19	mg/kg	A-T-024s
Chromium$_D^{M\#}$	21	17	10	20	19	25	12	18	mg/kg	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-040s
Lead$_D^{M\#}$	3750	600	298	10	419	17	56	16	mg/kg	A-T-024s
Mercury$_D$	0.65	1.93	0.51	<0.17	0.66	<0.17	<0.17	<0.17	mg/kg	A-T-024s
Nickel$_D^{M\#}$	28	36	27	23	32	30	14	22	mg/kg	A-T-024s
Selenium$_D^{M\#}$	<1	2	2	1	2	1	2	<1	mg/kg	A-T-024s
Zinc$_D^{M\#}$	949	93	67	40	193	54	55	44	mg/kg	A-T-024s
EPH Total (>C10-C36) $_A^{\#}$	170	<10	27	<10	59	<10	61	<10	mg/kg	A-T-023s
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - o Xylene$_A^{\#}$	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
Mineral Oil (>C10-C40)$_A$	<10	<10	<10	<10	<10	<10	21	<10	mg/kg	A-T-007s
VPH total (>C5-C10)$_A^{\#}$	0.42	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	mg/kg	A-T-022s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/10	15/00554/12	15/00554/13	15/00554/14	15/00554/15	15/00554/17	15/00554/18	15/00554/19	Units	Method ref
Client Sample No	3	2	3	4	1	3	1	2		
Client Sample ID	TP4a	TP5	TP5	TP5	TP6	TP6	TP7	TP7		
Depth to Top	2.00	1.40	1.80	2.50	0.40	1.50	0.40	0.80		
Depth To Bottom										
Date Sampled	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	28-Jan-15	28-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	4AB	4AE	4A	3A	5AB	5A	4AB	5A		
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_A^{\#}$	Chrysotile	NAD	NAD	NAD	NAD	NAD	NAD	NAD		A-T-045
Asbestos Matrix (microscope)$_A$	Loose Fibres	-	-	-	-	-	-	-		A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Gravimetry
Asbestos in Soil Quantification % Composition (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing)$_D$	<0.001	-	-	-	-	-	-	-	% w/w	A-T-054

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/10	15/00554/12	15/00554/13	15/00554/14	15/00554/15	15/00554/17	15/00554/18	15/00554/19	Units	Method ref
Client Sample No	3	2	3	4	1	3	1	2		
Client Sample ID	TP4a	TP5	TP5	TP5	TP6	TP6	TP7	TP7		
Depth to Top	2.00	1.40	1.80	2.50	0.40	1.50	0.40	0.80		
Depth To Bottom										
Date Sampled	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	28-Jan-15	28-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	4AB	4AE	4A	3A	5AB	5A	4AB	5A		
PAH 16										
Acenaphthene$_A^{M\#}$	2.01	0.05	<0.01	<0.01	0.19	0.01	0.16	<0.01	mg/kg	A-T-019s
Acenaphthylene$_A^{M\#}$	0.06	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	mg/kg	A-T-019s
Anthracene$_A^{M\#}$	3.33	0.28	0.05	0.06	0.31	<0.02	0.23	<0.02	mg/kg	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	7.65	0.41	0.08	0.07	1.03	<0.04	0.31	<0.04	mg/kg	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	10.1	0.43	0.08	0.08	1.27	<0.04	0.28	<0.04	mg/kg	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	12.2	0.54	0.08	0.09	1.64	<0.05	0.38	<0.05	mg/kg	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	5.87	0.31	0.06	<0.05	0.99	<0.05	0.19	<0.05	mg/kg	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	4.38	0.22	<0.07	<0.07	0.67	<0.07	0.22	<0.07	mg/kg	A-T-019s
Chrysene$_A^{M\#}$	9.17	0.56	0.07	0.11	1.28	<0.06	0.30	<0.06	mg/kg	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	1.19	0.09	<0.04	<0.04	0.22	<0.04	0.04	<0.04	mg/kg	A-T-019s
Fluoranthene$_A^{M\#}$	19.5	0.77	0.18	0.21	2.16	<0.08	0.81	<0.08	mg/kg	A-T-019s
Fluorene$_A^{M\#}$	1.44	0.05	0.01	<0.01	0.13	<0.01	0.12	<0.01	mg/kg	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	6.29	0.27	0.06	0.05	1.00	<0.03	0.19	<0.03	mg/kg	A-T-019s
Naphthalene$_A^{M\#}$	0.34	<0.03	<0.03	<0.03	0.09	<0.03	<0.03	<0.03	mg/kg	A-T-019s
Phenanthrene$_A^{M\#}$	12.1	0.85	0.08	0.09	1.40	0.05	0.52	<0.03	mg/kg	A-T-019s
Pyrene$_A^{M\#}$	17	0.81	0.13	0.18	1.99	<0.07	0.65	<0.07	mg/kg	A-T-019s
PAH (total 16)$_A^{M\#}$	113	5.65	0.92	0.92	14.4	<0.08	4.40	<0.08	mg/kg	A-T-019s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/10	15/00554/12	15/00554/13	15/00554/14	15/00554/15	15/00554/17	15/00554/18	15/00554/19	Units	Method ref
Client Sample No	3	2	3	4	1	3	1	2		
Client Sample ID	TP4a	TP5	TP5	TP5	TP6	TP6	TP7	TP7		
Depth to Top	2.00	1.40	1.80	2.50	0.40	1.50	0.40	0.80		
Depth To Bottom										
Date Sampled	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	28-Jan-15	28-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	4AB	4AE	4A	3A	5AB	5A	4AB	5A		
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/kg	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	mg/kg	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	mg/kg	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	mg/kg	A-T-004s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/20	15/00554/22	15/00554/23	15/00554/24	15/00554/25	15/00554/26	15/00554/27	15/00554/28	Units	Method ref
Client Sample No	1	1	2	1	2	3	4	1		
Client Sample ID	TP8	TP9	TP9	TP10a	TP10a	TP10a	TP10a	TP11		
Depth to Top	0.30	0.25	1.00	0.40	1.00	2.00	2.60	0.30		
Depth To Bottom										
Date Sampled	28-Jan-15	28-Jan-15	28-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	28-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	4A	4A	5A	4AB	4ABE	4AB	4ABD	4AB		
% Stones >10mm$_A^{\#}$	28.6	13.5	<0.1	-	<0.1	-	6.7	21.1	% w/w	A-T-044
% Stones >10mm$_A^{\#}$	28.6	13.5	<0.1	-	<0.1	-	6.7	21.1	% w/w	A-T-044
pH$_D^{M\#}$	8.80	8.57	9.15	-	7.79	-	8.52	9.05	pH	A-T-031s
Sulphate (water sol 2:1)$_D^{M\#}$	0.02	0.03	0.19	-	1.34	-	0.15	0.02	g/l	A-T-026s
Cyanide (free)$_A^{M\#}$	<1	<1	<1	-	<1	-	<1	<1	mg/kg	A-T-042sFCN
Cyanide (total)$_A^{M\#}$	<1	<1	<1	-	<1	-	1	<1	mg/kg	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	-	<0.2	-	<0.2	<0.2	mg/kg	A-T-050s
Loss on ignition (550degC)$_D$	5.1	8.0	4.5	-	9.1	-	6.4	5.0	% w/w	A-T-030s
Organic matter$_D^{M\#}$	4.2	11.2	1.2	-	12.4	-	5.7	4.3	% w/w	A-T-032 OM
Total Organic Carbon$_D^{M\#}$	2.46	6.53	0.68	-	7.16	-	3.32	2.46	% w/w	A-T-032s
Arsenic$_D^{M\#}$	6	9	<1	-	5	-	13	6	mg/kg	A-T-024s
Boron (water soluble)$_D^{M\#}$	<1.0	1.5	<1.0	-	<1.0	-	<1.0	<1.0	mg/kg	A-T-027s
Cadmium$_D^{M\#}$	<0.5	0.5	0.6	-	0.9	-	1.7	0.6	mg/kg	A-T-024s
Copper$_D^{M\#}$	34	42	23	-	49	-	118	41	mg/kg	A-T-024s
Chromium$_D^{M\#}$	13	18	29	-	20	-	58	27	mg/kg	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	-	<1	-	<1	<1	mg/kg	A-T-040s
Lead$_D^{M\#}$	25	64	11	-	133	-	406	222	mg/kg	A-T-024s
Mercury$_D$	0.19	0.28	0.40	-	0.19	-	0.63	0.37	mg/kg	A-T-024s
Nickel$_D^{M\#}$	15	31	31	-	20	-	77	13	mg/kg	A-T-024s
Selenium$_D^{M\#}$	2	3	2	-	1	-	3	2	mg/kg	A-T-024s
Zinc$_D^{M\#}$	30	53	54	-	125	-	271	155	mg/kg	A-T-024s
EPH Total (>C10-C36) $_A^{\#}$	127	94	<10	-	1320	-	5540	39	mg/kg	A-T-023s
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	mg/kg	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	mg/kg	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	mg/kg	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	mg/kg	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	mg/kg	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	mg/kg	A-T-022s
Mineral Oil (>C10-C40)$_A$	45	18	<10	-	593	-	13	134	mg/kg	A-T-007s
VPH total (>C5-C10)$_A^{\#}$	<0.01	<0.01	<0.01	-	0.01	-	<0.01	<0.01	mg/kg	A-T-022s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/20	15/00554/22	15/00554/23	15/00554/24	15/00554/25	15/00554/26	15/00554/27	15/00554/28	Units	Method ref
Client Sample No	1	1	2	1	2	3	4	1		
Client Sample ID	TP8	TP9	TP9	TP10a	TP10a	TP10a	TP10a	TP11		
Depth to Top	0.30	0.25	1.00	0.40	1.00	2.00	2.60	0.30		
Depth To Bottom										
Date Sampled	28-Jan-15	28-Jan-15	28-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	28-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	4A	4A	5A	4AB	4ABE	4AB	4ABD	4AB		
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_A^{\#}$	NAD	NAD	NAD	NAD	Chrysotile	Chrysotile	NAD	NAD		A-T-045
Asbestos Matrix (microscope)$_A$	-	-	-	-	Loose Fibres	Cement	-	-		A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	N/A	N/A	N/A	N/A	NO	N/A	N/A		Gravimetry
Asbestos in Soil Quantification % Composition (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing)$_D$	-	-	-	-	<0.001	0.006	-	-	% w/w	A-T-054

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/20	15/00554/22	15/00554/23	15/00554/24	15/00554/25	15/00554/26	15/00554/27	15/00554/28	Units	Method ref
Client Sample No	1	1	2	1	2	3	4	1		
Client Sample ID	TP8	TP9	TP9	TP10a	TP10a	TP10a	TP10a	TP11		
Depth to Top	0.30	0.25	1.00	0.40	1.00	2.00	2.60	0.30		
Depth To Bottom										
Date Sampled	28-Jan-15	28-Jan-15	28-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	28-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	4A	4A	5A	4AB	4ABE	4AB	4ABD	4AB		
PAH 16										
Acenaphthene$_A^{M\#}$	0.02	0.04	<0.01	-	1.06	-	0.15	0.08	mg/kg	A-T-019s
Acenaphthylene$_A^{M\#}$	0.02	0.01	<0.01	-	0.08	-	0.03	0.02	mg/kg	A-T-019s
Anthracene$_A^{M\#}$	0.04	0.11	<0.02	-	2.56	-	0.36	0.37	mg/kg	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	0.25	0.30	<0.04	-	4.20	-	1.26	1.26	mg/kg	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	0.67	0.42	<0.04	-	4.26	-	1.30	1.37	mg/kg	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	0.76	0.52	<0.05	-	4.88	-	1.66	1.64	mg/kg	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.72	0.35	<0.05	-	2.81	-	0.99	0.97	mg/kg	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.32	0.22	<0.07	-	1.88	-	0.66	0.73	mg/kg	A-T-019s
Chrysene$_A^{M\#}$	0.49	0.33	<0.06	-	4.46	-	1.34	1.22	mg/kg	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	0.11	0.06	<0.04	-	0.52	-	0.20	0.21	mg/kg	A-T-019s
Fluoranthene$_A^{M\#}$	0.37	0.59	<0.08	-	10.3	-	2.34	2.43	mg/kg	A-T-019s
Fluorene$_A^{M\#}$	<0.01	0.02	<0.01	-	0.76	-	0.09	0.06	mg/kg	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.71	0.34	<0.03	-	3.01	-	1.04	0.95	mg/kg	A-T-019s
Naphthalene$_A^{M\#}$	<0.03	<0.03	<0.03	-	0.28	-	0.05	0.04	mg/kg	A-T-019s
Phenanthrene$_A^{M\#}$	0.09	0.31	0.04	-	5.60	-	1.31	1.06	mg/kg	A-T-019s
Pyrene$_A^{M\#}$	0.40	0.61	<0.07	-	8.66	-	2.22	2.35	mg/kg	A-T-019s
PAH (total 16)$_A^{M\#}$	4.97	4.23	<0.08	-	55.3	-	15	14.7	mg/kg	A-T-019s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/20	15/00554/22	15/00554/23	15/00554/24	15/00554/25	15/00554/26	15/00554/27	15/00554/28	Units	Method ref
Client Sample No	1	1	2	1	2	3	4	1		
Client Sample ID	TP8	TP9	TP9	TP10a	TP10a	TP10a	TP10a	TP11		
Depth to Top	0.30	0.25	1.00	0.40	1.00	2.00	2.60	0.30		
Depth To Bottom										
Date Sampled	28-Jan-15	28-Jan-15	28-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	28-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	4A	4A	5A	4AB	4ABE	4AB	4ABD	4AB		
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.002	<0.002	<0.002	-	<0.002	-	<0.002	<0.002	mg/kg	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002	-	<0.002	-	<0.002	<0.002	mg/kg	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004	-	<0.004	-	<0.004	<0.004	mg/kg	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007	-	<0.007	-	<0.007	<0.007	mg/kg	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006	-	<0.006	-	<0.006	<0.006	mg/kg	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004	-	<0.004	-	<0.004	<0.004	mg/kg	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004	-	<0.004	-	<0.004	<0.004	mg/kg	A-T-004s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/30	15/00554/31	15/00554/32	15/00554/33	15/00554/34	15/00554/35	15/00554/36	15/00554/37	Units	Method ref
Client Sample No	3									
Client Sample ID	TP11	W1	W2	W3	W4	W5	W6	W7		
Depth to Top	1.40	0.50	1.00	2.00	1.00	1.50	0.30	1.00		
Depth To Bottom										
Date Sampled	28-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	1AB	4AB	6AB	4AB	6AB	4A	4AB	4A		
% Stones >10mm$_A$ #	15.7	15.2	14.1	10.2	14.9	22.3	13.9	19.2	% w/w	A-T-044
% Stones >10mm$_A$ #	15.7	-	-	-	-	-	-	-	% w/w	A-T-044
pH$_D$ M#	8.64	8.52	8.43	8.47	8.32	8.44	8.28	8.38	pH	A-T-031s
Sulphate (water sol 2:1)$_D$ M#	0.03	-	-	-	-	-	-	-	g/l	A-T-026s
Cyanide (free)$_A$ M#	<1	-	-	-	-	-	-	-	mg/kg	A-T-042sFCN
Cyanide (total)$_A$ M#	<1	-	-	-	-	-	-	-	mg/kg	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	-	-	-	-	-	-	-	mg/kg	A-T-050s
Loss on ignition (550degC)$_D$	2.6	6.9	13.7	6.3	7.6	5.1	9.5	8.6	% w/w	A-T-030s
Organic matter$_D$ M#	2.6	-	-	-	-	-	-	-	% w/w	A-T-032 OM
Total Organic Carbon$_D$ M#	1.52	7.50	8.54	4.28	7.34	4.89	8.27	5.03	% w/w	A-T-032s
Arsenic$_D$ M#	5	-	-	-	-	-	-	-	mg/kg	A-T-024s
Boron (water soluble)$_D$ M#	<1.0	-	-	-	-	-	-	-	mg/kg	A-T-027s
Cadmium$_D$ M#	0.6	-	-	-	-	-	-	-	mg/kg	A-T-024s
Copper$_D$ M#	43	-	-	-	-	-	-	-	mg/kg	A-T-024s
Chromium$_D$ M#	13	-	-	-	-	-	-	-	mg/kg	A-T-024s
Chromium (hexavalent)$_D$	<1	-	-	-	-	-	-	-	mg/kg	A-T-040s
Lead$_D$ M#	109	-	-	-	-	-	-	-	mg/kg	A-T-024s
Mercury$_D$	0.30	-	-	-	-	-	-	-	mg/kg	A-T-024s
Nickel$_D$ M#	14	-	-	-	-	-	-	-	mg/kg	A-T-024s
Selenium$_D$ M#	2	-	-	-	-	-	-	-	mg/kg	A-T-024s
Zinc$_D$ M#	62	-	-	-	-	-	-	-	mg/kg	A-T-024s
EPH Total (>C10-C36) $_A$ #	17	-	-	-	-	-	-	-	mg/kg	A-T-023s
BTEX - Benzene$_A$ #	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - Toluene$_A$ #	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - Ethyl Benzene$_A$ #	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - m & p Xylene$_A$ #	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
BTEX - o Xylene$_A$ #	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
MTBE$_A$ #	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s
Mineral Oil (>C10-C40)$_A$	<10	12	19	18	16	27	11	101	mg/kg	A-T-007s
VPH total (>C5-C10)$_A$ #	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-022s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/30	15/00554/31	15/00554/32	15/00554/33	15/00554/34	15/00554/35	15/00554/36	15/00554/37	Units	Method ref
Client Sample No	3									
Client Sample ID	TP11	W1	W2	W3	W4	W5	W6	W7		
Depth to Top	1.40	0.50	1.00	2.00	1.00	1.50	0.30	1.00		
Depth To Bottom										
Date Sampled	28-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	1AB	4AB	6AB	4AB	6AB	4A	4AB	4A		
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_A^{\#}$	NAD	-	-	-	-	-	-	-		A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	-	-	-	-	-	-	-		Gravimetry

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/30	15/00554/31	15/00554/32	15/00554/33	15/00554/34	15/00554/35	15/00554/36	15/00554/37	Units	Method ref
Client Sample No	3									
Client Sample ID	TP11	W1	W2	W3	W4	W5	W6	W7		
Depth to Top	1.40	0.50	1.00	2.00	1.00	1.50	0.30	1.00		
Depth To Bottom										
Date Sampled	28-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	1AB	4AB	6AB	4AB	6AB	4A	4AB	4A		
PAH 16										
Acenaphthene$_A^{M\#}$	0.16	-	-	-	-	-	-	-	mg/kg	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	-	-	-	-	-	-	-	mg/kg	A-T-019s
Anthracene$_A^{M\#}$	0.24	-	-	-	-	-	-	-	mg/kg	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	0.45	-	-	-	-	-	-	-	mg/kg	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	0.39	-	-	-	-	-	-	-	mg/kg	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	0.51	-	-	-	-	-	-	-	mg/kg	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.24	-	-	-	-	-	-	-	mg/kg	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.19	-	-	-	-	-	-	-	mg/kg	A-T-019s
Chrysene$_A^{M\#}$	0.59	-	-	-	-	-	-	-	mg/kg	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	0.05	-	-	-	-	-	-	-	mg/kg	A-T-019s
Fluoranthene$_A^{M\#}$	1.18	-	-	-	-	-	-	-	mg/kg	A-T-019s
Fluorene$_A^{M\#}$	0.07	-	-	-	-	-	-	-	mg/kg	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.28	-	-	-	-	-	-	-	mg/kg	A-T-019s
Naphthalene$_A^{M\#}$	0.12	-	-	-	-	-	-	-	mg/kg	A-T-019s
Phenanthrene$_A^{M\#}$	0.94	-	-	-	-	-	-	-	mg/kg	A-T-019s
Pyrene$_A^{M\#}$	0.99	-	-	-	-	-	-	-	mg/kg	A-T-019s
PAH (total 16)$_A^{M\#}$	6.39	-	-	-	-	-	-	-	mg/kg	A-T-019s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/30	15/00554/31	15/00554/32	15/00554/33	15/00554/34	15/00554/35	15/00554/36	15/00554/37	Units	Method ref
Client Sample No	3									
Client Sample ID	TP11	W1	W2	W3	W4	W5	W6	W7		
Depth to Top	1.40	0.50	1.00	2.00	1.00	1.50	0.30	1.00		
Depth To Bottom										
Date Sampled	28-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
MCERTS Sample Matrix Code	1AB	4AB	6AB	4AB	6AB	4A	4AB	4A		
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.002	-	-	-	-	-	-	-	mg/kg	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	-	-	-	-	-	-	-	mg/kg	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	-	-	-	-	-	-	-	mg/kg	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	-	-	-	-	-	-	-	mg/kg	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	-	-	-	-	-	-	-	mg/kg	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	-	-	-	-	-	-	-	mg/kg	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	-	-	-	-	-	-	-	mg/kg	A-T-004s

Envirolab Job Number: 15/00554

Client Project Name: Angel Square

Client Project Ref: 763315

Lab Sample ID	15/00554/38	15/00554/39	15/00554/40						Units	Method ref
Client Sample No										
Client Sample ID	W8	W9	W10							
Depth to Top	0.80	0.50	0.30							
Depth To Bottom										
Date Sampled	26-Jan-15	26-Jan-15	26-Jan-15							
Sample Type	Soil - ES	Soil - ES	Soil - ES							
MCERTS Sample Matrix Code	6AE	4AB	4AB							
% Stones >10mm$_A^{\#}$	<0.1	13.7	24.9						% w/w	A-T-044
pH$_D^{M\#}$	8.81	8.57	8.64						pH	A-T-031s
Loss on ignition (550degC)$_D$	4.6	8.1	6.2						% w/w	A-T-030s
Total Organic Carbon$_D^{M\#}$	1.49	7.10	5.44						% w/w	A-T-032s
Mineral Oil (>C10-C40)$_A$	<10	41	<10						mg/kg	A-T-007s

REPORT NOTES

Notes - Soil chemical analysis
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis. For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General
This report shall not be reproduced, except in full, without written approval from Envirolab.
Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.
All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.
All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts.
Superscript "M" indicates method accredited to MCERTS.
If results are in italic font they are associated with an AQC failure. These are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

TPH analysis of water by method A-T-007
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Asbestos in soil
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if present as discrete fibres/fragments. Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified a being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER.
Samples with Matrix Code 7 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations.

Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

envirolab
Units 7 & 8, Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

Final Test Report

Envirolab Job Number:	15-00554	
Issue Number:	1	Date: 18-Feb-15
Client:	Structural Soils Limited The Potteries Pottery Street Castleford West Yorkshire WF10 1NJ	
Project Manager:	Gemma Rushton	
Project Name:	Angel Square	
Project Ref:	763315	
Order No:		
Date Samples Received:	28, 30 Jan + 2 Feb 15	
Date Instructions Received:	3-Feb-15	
Date Analysis Completed:	17-Feb-15	

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

Superscript "M" indicates method accredited to MCERTS.

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER.

Samples with Matrix Code 7 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations.

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Superscript # indicates method accredited to ISO 17025.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

Prepared by:



Gill Scott
Laboratory Manager

Approved by:



Iain Haslock
Analytical Consultant

UKAS TESTING
No. 1247

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/1							
Client Sample Number				1							
Client Sample ID				TP1							
Depth to Top				0.30							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				26-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				5A							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	0.005	0.010	0.011	**0.095**		0.5	2	25
Barium	A-T-025	Y	N	0.052	0.024	0.124	**0.273**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	0.003	<0.001	0.008	**0.010**		0.5	10	70
Copper	A-T-025	Y	N	0.007	0.002	0.016	**0.029**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.022	0.003	0.053	**0.046**		0.5	10	30
Nickel	A-T-025	Y	N	0.001	<0.001	0.003	**0.004**		0.4	10	40
Lead	A-T-025	Y	N	0.002	0.002	0.006	**0.018**		0.5	10	50
Antimony	A-T-025	Y	N	0.033	0.009	0.079	**0.112**		0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.030	0.009	0.071	**0.114**		4	50	200
Chloride	A-T-026	Y	N	2	<1	4	**1**		800	15000	25000
Fluoride	A-T-026	Y	N	1.2	0.5	2.8	**5.8**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	150	40	354	**511**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	255	76	603	**952**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	0.00005	0.00020	0.00012	**0.00194**				
Acenapthylene	A-T-019	N	N	<0.00002	0.00008	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	<0.00002	0.00004	<0.00004	**<0.0002**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	0.00004	<0.00004	**<0.0002**				
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Total PAH	A-T-019	N	N	0.00005	0.00036	0.00012	**0.00345**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	7.7	7.7						
Conductivity (µS/cm)	A-T-037	N	N	509	153						
Mass Sample (kg)				0.200							
Dry Matter (%)	A-T-044	N	N	81.7							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.309							

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/3						
Client Sample Number				1						
Client Sample ID				TP2						
Depth to Top				0.30						
Depth to Bottom								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				5AB						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y					-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N					-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y					3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N					100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N					500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N					1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N					6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	Y	N	0.0085	0.0202	0.0215	**0.2013**	0.5	2	25
Barium	A-T-025	Y	N	0.0671	0.0447	0.1701	**0.4929**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0042	0.0016	0.0106	**0.0190**	0.5	10	70
Copper	A-T-025	Y	N	0.0041	0.0043	0.0105	**0.0455**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0221	0.0058	0.0561	**0.0764**	0.5	10	30
Nickel	A-T-025	Y	N	0.0014	0.0014	0.0035	**0.0150**	0.4	10	40
Lead	A-T-025	Y	N	0.0062	0.0114	0.0156	**0.1148**	0.5	10	50
Antimony	A-T-025	Y	N	0.0055	0.0026	0.0140	**0.0298**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0193	0.1142	0.0488	**1.1111**	4	50	200
Chloride	A-T-026	Y	N	3	<1	7	**3**	800	15000	25000
Fluoride	A-T-026	Y	N	1.9	0.8	4.8	**9.4**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	26	6	66	**78**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	127	41	322	**515**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Naphthalene	A-T-019	N	N	0.00004	0.00009	0.00010	**0.00090**			
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Total PAH	A-T-019	N	N	0.00004	0.00009	0.00010	**0.00090**			
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**			
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.7	7.8					
Conductivity (µS/cm)	A-T-037	N	N	254	82					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	77.8						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.244						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/5						
Client Sample Number				1						
Client Sample ID				TP3						
Depth to Top				0.30						
Depth to Bottom								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				6A						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y					-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N					-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y					3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N					100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N					500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N					1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N					6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	2	25
Barium	A-T-025	Y	N	0.0206	0.0071	0.0466	**0.0851**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	70
Copper	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0027	0.0019	0.0060	**0.0206**	0.5	10	30
Nickel	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.4	10	40
Lead	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	50
Antimony	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0166	0.0037	0.0375	**0.0498**	4	50	200
Chloride	A-T-026	Y	N	14	<1	31	**12**	800	15000	25000
Fluoride	A-T-026	Y	N	1.1	0.2	2.5	**2.8**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	47	<1	106	**42**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	169	28	382	**413**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Naphthalene	A-T-019	N	N	0.00005	0.00019	0.00011	**0.00182**			
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Total PAH	A-T-019	N	N	0.00005	0.00019	0.00011	**0.00182**			
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**			
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.8	7.3					
Conductivity (µS/cm)	A-T-037	N	N	337	56					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	84.5						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.349						

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/7							
Client Sample Number				1							
Client Sample ID				TP4							
Depth to Top				0.40							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				26-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				4AB							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	0.0081	0.0086	0.0176	**0.0867**		0.5	2	25
Barium	A-T-025	Y	N	0.0724	0.0743	0.1579	**0.7548**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	0.0185	0.0032	0.0404	**0.0461**		0.5	10	70
Copper	A-T-025	Y	N	0.0254	0.0084	0.0553	**0.0999**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0302	0.0031	0.0658	**0.0547**		0.5	10	30
Nickel	A-T-025	Y	N	0.0016	<0.001	0.0035	**0.0043**		0.4	10	40
Lead	A-T-025	Y	N	0.0482	0.0292	0.1050	**0.3137**		0.5	10	50
Antimony	A-T-025	Y	N	0.0166	0.0063	0.0361	**0.0729**		0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.0175	0.0237	0.0381	**0.2362**		4	50	200
Chloride	A-T-026	Y	N	7	<1	16	**6**		800	15000	25000
Fluoride	A-T-026	Y	N	1.2	0.3	2.6	**3.9**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	78	10	170	**161**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	159	43	347	**538**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	0.00014	0.00019	0.00031	**0.00189**				
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	<0.00002	0.00014	<0.00004	**<0.0002**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	0.00009	<0.00002	0.00020	**0.00008**				
Pyrene	A-T-019	N	N	0.00009	<0.00002	0.00020	**0.00008**				
Benz [a] anthracene	A-T-019	N	N	0.00005	<0.00002	0.00011	**0.00004**				
Chrysene	A-T-019	N	N	0.00010	<0.00002	0.00022	**0.00009**				
Benzo [b] fluoranthene	A-T-019	N	N	0.00024	<0.00002	0.00052	**0.00021**				
Benzo [k] fluoranthene	A-T-019	N	N	0.00006	<0.00002	0.00013	**0.00005**				
Benzo [a] pyrene	A-T-019	N	N	0.00024	<0.00002	0.00052	**0.00021**				
Indeno [123-cd] pyrene	A-T-019	N	N	0.00031	<0.00002	0.00068	**0.00027**				
Dibenz [ah] anthracene	A-T-019	N	N	0.00005	<0.00002	0.00011	**0.00004**				
Benzo [ghi] perylene	A-T-019	N	N	0.00029	<0.00002	0.00063	**0.00025**				
Total PAH	A-T-019	N	N	0.00164	0.00033	0.00358	**0.00449**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	7.7	8.8						
Conductivity (µS/cm)	A-T-037	N	N	317	85						
Mass Sample (kg)				0.201							
Dry Matter (%)	A-T-044	N	N	86.3							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.385							

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/10						
Client Sample Number				3				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TP4a						
Depth to Top				2.00						
Depth to Bottom										
Date Sampled				27-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				4AB						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y					-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N					-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y					3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N					100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N					500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N					1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N					6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	Y	N	0.0016	0.0026	0.0036	**0.0261**	0.5	2	25
Barium	A-T-025	Y	N	0.1041	0.1567	0.2288	**1.5518**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0032	0.0011	0.0070	**0.0130**	0.5	10	70
Copper	A-T-025	Y	N	0.0055	0.0040	0.0120	**0.0423**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0106	0.0033	0.0232	**0.0399**	0.5	10	30
Nickel	A-T-025	Y	N	0.0014	<0.001	0.0032	**0.0035**	0.4	10	40
Lead	A-T-025	Y	N	0.0239	0.0284	0.0525	**0.2855**	0.5	10	50
Antimony	A-T-025	Y	N	0.0086	0.0050	0.0189	**0.0545**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0443	0.0087	0.0975	**0.1201**	4	50	200
Chloride	A-T-026	Y	N	13	<1	28	**11**	800	15000	25000
Fluoride	A-T-026	Y	N	1.1	0.7	2.5	**7.8**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	112	11	247	**204**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	255	55	561	**735**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Naphthalene	A-T-019	N	N	0.00002	0.00044	0.00004	**0.00412**			
Acenapthylene	A-T-019	N	N	<0.00002	0.00005	<0.00004	**<0.0002**			
Acenapthene	A-T-019	N	N	<0.00002	0.00101	<0.00004	**<0.0002**			
Fluorene	A-T-019	N	N	<0.00002	0.00004	<0.00004	**<0.0002**			
Phenanthrene	A-T-019	N	N	<0.00002	0.00003	<0.00004	**<0.0002**			
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [b] fluoranthene	A-T-019	N	N	0.00004	<0.00002	0.00009	**0.00003**			
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [a] pyrene	A-T-019	N	N	0.00003	<0.00002	0.00007	**0.00003**			
Indeno [123-cd] pyrene	A-T-019	N	N	0.00005	<0.00002	0.00011	**0.00004**			
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [ghi] perylene	A-T-019	N	N	0.00004	<0.00002	0.00009	**0.00003**			
Total PAH	A-T-019	N	N	0.00018	0.00156	0.00040	**0.01471**			
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**			
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.9	8.2					
Conductivity (µS/cm)	A-T-037	N	N	509	110					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	86.0						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.375						

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/12							
Client Sample Number				2							
Client Sample ID				TP5							
Depth to Top				1.40							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				27-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				4AE							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	0.0030	0.0045	0.0073	**0.0460**		0.5	2	25
Barium	A-T-025	Y	N	0.0448	0.0171	0.1092	**0.2046**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	0.0032	0.0022	0.0079	**0.0239**		0.5	10	70
Copper	A-T-025	Y	N	0.0047	0.0037	0.0114	**0.0394**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0263	0.0072	0.0642	**0.0934**		0.5	10	30
Nickel	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.4	10	40
Lead	A-T-025	Y	N	0.0023	0.0063	0.0056	**0.0617**		0.5	10	50
Antimony	A-T-025	Y	N	0.0021	0.0011	0.0051	**0.0124**		0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.0069	0.0062	0.0168	**0.0654**		4	50	200
Chloride	A-T-026	Y	N	5	<1	11	**4**		800	15000	25000
Fluoride	A-T-026	Y	N	1.0	0.7	2.5	**7.9**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	17	1	42	**26**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	129	47	314	**567**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	<0.00002	0.00007	<0.00004	**<0.0002**				
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Total PAH	A-T-019	N	N	<0.00002	0.00007	<0.00004	**<0.0002**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	7.8	7.6						
Conductivity (µS/cm)	A-T-037	N	N	258	94						
Mass Sample (kg)				0.200							
Dry Matter (%)	A-T-044	N	N	80.0							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.280							

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/13							
Client Sample Number				3							
Client Sample ID				TP5							
Depth to Top				1.80							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				27-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				4A							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	0.0030	0.0012	0.0079	**0.0142**		0.5	2	25
Barium	A-T-025	Y	N	0.0785	0.0266	0.2054	**0.3339**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.5	10	70
Copper	A-T-025	Y	N	<0.001	0.0013	<0.002	**<0.01**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0193	0.0146	0.0504	**0.1596**		0.5	10	30
Nickel	A-T-025	Y	N	0.0015	<0.001	0.0040	**0.0076**		0.4	10	40
Lead	A-T-025	Y	N	<0.001	0.0016	<0.002	**<0.01**		0.5	10	50
Antimony	A-T-025	Y	N	0.0015	0.0027	0.0039	**0.0274**		0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.0053	0.0015	0.0138	**0.0197**		4	50	200
Chloride	A-T-026	Y	N	8	4	20	**44**		800	15000	25000
Fluoride	A-T-026	Y	N	0.4	0.2	1.0	**2.2**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	105	27	275	**362**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	245	77	641	**983**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	0.00006	0.00007	0.00016	**0.00073**				
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	0.00006	<0.00002	0.00016	**0.00006**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Total PAH	A-T-019	N	N	0.00013	0.00007	0.00034	**0.00080**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	7.9	7.6						
Conductivity (µS/cm)	A-T-037	N	N	490	153						
Mass Sample (kg)				0.200							
Dry Matter (%)	A-T-044	N	N	76.1							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.217							

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/14							
Client Sample Number				4							
Client Sample ID				TP5							
Depth to Top				2.50							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				27-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				3A							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.5	2	25
Barium	A-T-025	Y	N	0.033	0.018	0.075	**0.200**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	0.002	<0.001	0.003	**0.002**		0.5	10	70
Copper	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.005	0.002	0.011	**0.022**		0.5	10	30
Nickel	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.4	10	40
Lead	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.5	10	50
Antimony	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.06	0.7	5
Selenium	A-T-025	Y	N	0.003	<0.001	0.006	**0.002**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.003	<0.001	0.006	**0.002**		4	50	200
Chloride	A-T-026	Y	N	30	<1	67	**27**		800	15000	25000
Fluoride	A-T-026	Y	N	0.7	0.2	1.6	**2.2**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	51	4	115	**78**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	263	35	592	**561**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	0.00016	0.00012	0.00036	**0.00127**				
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Total PAH	A-T-019	N	N	0.00016	0.00012	0.00036	**0.00127**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	8.0	7.4						
Conductivity (µS/cm)	A-T-037	N	N	525	70						
Mass Sample (kg)				0.200							
Dry Matter (%)	A-T-044	N	N	84.6							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.353							

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/15							
Client Sample Number				1							
Client Sample ID				TP6							
Depth to Top				0.40							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				27-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				5AB							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	0.0032	0.0050	0.0076	**0.0498**		0.5	2	25
Barium	A-T-025	Y	N	0.0605	0.0211	0.1450	**0.2556**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	0.0026	<0.001	0.0063	**0.0083**		0.5	10	70
Copper	A-T-025	Y	N	0.0082	0.0040	0.0197	**0.0458**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0222	0.0054	0.0532	**0.0715**		0.5	10	30
Nickel	A-T-025	Y	N	0.0011	<0.001	0.0026	**0.0039**		0.4	10	40
Lead	A-T-025	Y	N	0.0011	0.0076	0.0028	**0.0733**		0.5	10	50
Antimony	A-T-025	Y	N	0.0060	0.0016	0.0143	**0.0210**		0.06	0.7	5
Selenium	A-T-025	Y	N	0.0015	<0.001	0.0036	**0.0100**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.0095	0.0020	0.0227	**0.0273**		4	50	200
Chloride	A-T-026	Y	N	4	<1	9	**3**		800	15000	25000
Fluoride	A-T-026	Y	N	1.8	0.6	4.2	**7.3**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	40	5	95	**80**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	177	41	425	**552**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	0.00012	0.00012	0.00029	**0.00125**				
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Total PAH	A-T-019	N	N	0.00012	0.00012	0.00029	**0.00125**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	7.8	7.1						
Conductivity (µS/cm)	A-T-037	N	N	354	82						
Mass Sample (kg)				0.200							
Dry Matter (%)	A-T-044	N	N	81.0							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.294							

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/17						
Client Sample Number				3				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TP6						
Depth to Top				1.50						
Depth to Bottom										
Date Sampled				27-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				5A						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y					-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N					-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y					3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N					100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N					500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N					1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N					6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	2	25
Barium	A-T-025	Y	N	0.0284	0.0135	0.0645	**0.1519**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	70
Copper	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0020	0.0027	0.0046	**0.0270**	0.5	10	30
Nickel	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.4	10	40
Lead	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	50
Antimony	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0046	<0.001	0.0104	**0.0087**	4	50	200
Chloride	A-T-026	Y	N	4	<1	9	**3**	800	15000	25000
Fluoride	A-T-026	Y	N	0.4	0.2	1.0	**1.8**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	45	3	102	**67**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	135	32	306	**420**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Naphthalene	A-T-019	N	N	0.00023	0.00004	0.00052	**0.00058**			
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Acenapthene	A-T-019	N	N	0.00002	<0.00002	0.00005	**0.00002**			
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Total PAH	A-T-019	N	N	0.00026	0.00004	0.00059	**0.00061**			
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**			
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.6	7.1					
Conductivity (µS/cm)	A-T-037	N	N	269	64					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	84.0						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.346						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/18						
Client Sample Number				1				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TP7						
Depth to Top				0.40						
Depth to Bottom										
Date Sampled				28-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				4AB						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y					-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N					-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y					3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N					100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N					500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N					1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N					6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	Y	N	0.0072	0.0106	0.0156	**0.1050**	0.5	2	25
Barium	A-T-025	Y	N	0.0671	0.0757	0.1446	**0.7616**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	70
Copper	A-T-025	Y	N	0.0036	0.0019	0.0079	**0.0204**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0276	0.0050	0.0595	**0.0705**	0.5	10	30
Nickel	A-T-025	Y	N	0.0020	0.0013	0.0042	**0.0135**	0.4	10	40
Lead	A-T-025	Y	N	0.0012	<0.001	0.0026	**0.0097**	0.5	10	50
Antimony	A-T-025	Y	N	0.0166	0.0058	0.0357	**0.0681**	0.06	0.7	5
Selenium	A-T-025	Y	N	0.0011	0.0015	0.0024	**0.0145**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0059	0.0061	0.0127	**0.0620**	4	50	200
Chloride	A-T-026	Y	N	2	<1	5	**2**	800	15000	25000
Fluoride	A-T-026	Y	N	0.4	0.2	0.8	**1.7**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	42	29	91	**305**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	84	64	181	**667**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Naphthalene	A-T-019	N	N	0.00031	0.00014	0.00067	**0.00157**			
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Acenapthene	A-T-019	N	N	0.00006	<0.00002	0.00013	**0.00005**			
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Total PAH	A-T-019	N	N	0.00037	0.00014	0.00080	**0.00162**			
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**			
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.1	7.2					
Conductivity (µS/cm)	A-T-037	N	N	168	128					
Mass Sample (kg)				0.199						
Dry Matter (%)	A-T-044	N	N	87.3						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.392						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/19						
Client Sample Number				2				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TP7						
Depth to Top				0.80						
Depth to Bottom										
Date Sampled				28-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				5A						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y					-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N					-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y					3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N					100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N					500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N					1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N					6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	Y	N	0.0010	0.0021	0.0023	**0.0206**	0.5	2	25
Barium	A-T-025	Y	N	0.0268	0.0122	0.0602	**0.1376**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	<0.001	0.0028	<0.002	**<0.01**	0.5	10	70
Copper	A-T-025	Y	N	0.0047	0.0034	0.0106	**0.0357**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0054	0.0014	0.0121	**0.0176**	0.5	10	30
Nickel	A-T-025	Y	N	0.0011	0.0019	0.0024	**0.0185**	0.4	10	40
Lead	A-T-025	Y	N	0.0020	0.0015	0.0046	**0.0157**	0.5	10	50
Antimony	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0045	0.0043	0.0101	**0.0439**	4	50	200
Chloride	A-T-026	Y	N	13	2	29	**33**	800	15000	25000
Fluoride	A-T-026	Y	N	0.7	0.3	1.5	**2.9**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	45	10	100	**132**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	170	81	382	**909**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Naphthalene	A-T-019	N	N	0.00009	0.00024	0.00020	**0.00233**			
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Total PAH	A-T-019	N	N	0.00009	0.00024	0.00020	**0.00233**			
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**			
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.9	8.7					
Conductivity (µS/cm)	A-T-037	N	N	339	162					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	84.7						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.355						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/20						
Client Sample Number				1						
Client Sample ID				TP8						
Depth to Top				0.30						
Depth to Bottom								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				28-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				4A						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y					-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N					-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y					3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N					100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N					500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N					1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N					6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	Y	N	0.0025	0.0087	0.0053	**0.0823**	0.5	2	25
Barium	A-T-025	Y	N	0.0126	0.0137	0.0267	**0.1373**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	70
Copper	A-T-025	Y	N	0.0013	0.0018	0.0028	**0.0181**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0096	0.0067	0.0205	**0.0702**	0.5	10	30
Nickel	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.4	10	40
Lead	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	50
Antimony	A-T-025	Y	N	0.0018	0.0013	0.0039	**0.0139**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	0.0010	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0027	<0.001	0.0057	**0.0076**	4	50	200
Chloride	A-T-026	Y	N	1	<1	2	**1**	800	15000	25000
Fluoride	A-T-026	Y	N	0.6	0.4	1.3	**4.2**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	8	5	17	**49**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	43	42	91	**426**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Naphthalene	A-T-019	N	N	0.00015	0.00012	0.00032	**0.00124**			
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Total PAH	A-T-019	N	N	0.00015	0.00012	0.00032	**0.00124**			
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**			
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.0	7.2					
Conductivity (µS/cm)	A-T-037	N	N	86	84					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	88.0						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.409						

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/22							
Client Sample Number				1							
Client Sample ID				TP9							
Depth to Top				0.25							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				28-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				4A							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	0.0028	0.0063	0.0064	**0.0614**		0.5	2	25
Barium	A-T-025	Y	N	0.0453	0.0452	0.1033	**0.4652**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	0.0022	0.0011	0.0050	**0.0122**		0.5	10	70
Copper	A-T-025	Y	N	0.0026	0.0022	0.0059	**0.0230**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0068	0.0031	0.0154	**0.0349**		0.5	10	30
Nickel	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.4	10	40
Lead	A-T-025	Y	N	0.0026	0.0036	0.0058	**0.0356**		0.5	10	50
Antimony	A-T-025	Y	N	0.0094	0.0041	0.0214	**0.0473**		0.06	0.7	5
Selenium	A-T-025	Y	N	0.0019	0.0028	0.0044	**0.0277**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.0042	0.0011	0.0095	**0.0140**		4	50	200
Chloride	A-T-026	Y	N	2	<1	4	**2**		800	15000	25000
Fluoride	A-T-026	Y	N	0.6	0.3	1.4	**3.0**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	14	5	31	**57**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	67	41	153	**445**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	0.00012	0.00010	0.00027	**0.00105**				
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Total PAH	A-T-019	N	N	0.00012	0.00010	0.00027	**0.00105**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	7.4	7.2						
Conductivity (µS/cm)	A-T-037	N	N	135	81						
Mass Sample (kg)				0.200							
Dry Matter (%)	A-T-044	N	N	83.9							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.341							

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/23						
Client Sample Number				2				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TP9						
Depth to Top				1.00						
Depth to Bottom										
Date Sampled				28-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				5A						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y					-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N					-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N					-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y					3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N					100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N					500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N					1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N					6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	2	25
Barium	A-T-025	Y	N	0.0319	0.0162	0.0720	**0.1801**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	70
Copper	A-T-025	Y	N	0.0015	<0.001	0.0034	**0.0056**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0040	0.0016	0.0091	**0.0183**	0.5	10	30
Nickel	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.4	10	40
Lead	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	10	50
Antimony	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0081	0.0011	0.0183	**0.0175**	4	50	200
Chloride	A-T-026	Y	N	6	<1	13	**5**	800	15000	25000
Fluoride	A-T-026	Y	N	0.7	0.2	1.6	**2.9**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	34	3	76	**58**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	156	36	353	**476**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Naphthalene	A-T-019	N	N	0.00012	0.00012	0.00027	**0.00123**			
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**			
Total PAH	A-T-019	N	N	0.00012	0.00012	0.00027	**0.00123**			
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**			
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.9	7.1					
Conductivity (µS/cm)	A-T-037	N	N	311	72					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	84.3						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.350						

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/25							
Client Sample Number				2							
Client Sample ID				TP10a							
Depth to Top				1.00							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				27-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				4ABE							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	0.0062	0.0075	0.0135	**0.0750**		0.5	2	25
Barium	A-T-025	Y	N	0.1185	0.0348	0.2586	**0.4271**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	0.0012	0.0019	0.0027	**0.0190**		0.5	10	70
Copper	A-T-025	Y	N	0.0101	0.0098	0.0221	**0.1001**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0992	0.0062	0.2164	**0.1434**		0.5	10	30
Nickel	A-T-025	Y	N	0.0053	0.0016	0.0116	**0.0194**		0.4	10	40
Lead	A-T-025	Y	N	0.0135	0.0279	0.0295	**0.2717**		0.5	10	50
Antimony	A-T-025	Y	N	0.0466	0.0123	0.1016	**0.1545**		0.06	0.7	5
Selenium	A-T-025	Y	N	0.0011	<0.001	0.0023	**0.0097**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.0157	0.0091	0.0343	**0.0988**		4	50	200
Chloride	A-T-026	Y	N	4	<1	9	**4**		800	15000	25000
Fluoride	A-T-026	Y	N	1.3	0.5	2.9	**5.7**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	279	36	608	**573**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	398	73	868	**1025**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	0.00012	0.00012	0.00026	**0.00122**				
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	0.00006	0.00014	0.00013	**0.00136**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	0.00004	0.00002	0.00009	**0.00022**				
Pyrene	A-T-019	N	N	0.00004	0.00002	0.00009	**0.00022**				
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Chrysene	A-T-019	N	N	<0.00002	0.00002	<0.00004	**<0.0002**				
Benzo [b] fluoranthene	A-T-019	N	N	0.00002	0.00003	0.00004	**0.00030**				
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [a] pyrene	A-T-019	N	N	0.00002	<0.00002	0.00004	**0.00002**				
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	0.00003	<0.00004	**<0.0002**				
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	0.00002	<0.00004	**<0.0002**				
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	0.00003	<0.00004	**<0.0002**				
Total PAH	A-T-019	N	N	0.00029	0.00044	0.00063	**0.00435**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	7.7	7.3						
Conductivity (µS/cm)	A-T-037	N	N	795	146						
Mass Sample (kg)				0.200							
Dry Matter (%)	A-T-044	N	N	86.4							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.383							

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/27							
Client Sample Number				4							
Client Sample ID				TP10a							
Depth to Top				2.60							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				27-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				4ABD							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	0.0041	0.0059	0.0099	**0.0601**		0.5	2	25
Barium	A-T-025	Y	N	0.0432	0.0212	0.1035	**0.2410**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	0.0265	0.0024	0.0636	**0.0472**		0.5	10	70
Copper	A-T-025	Y	N	0.0056	0.0034	0.0135	**0.0374**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0228	0.0026	0.0546	**0.0461**		0.5	10	30
Nickel	A-T-025	Y	N	0.0091	0.0011	0.0217	**0.0186**		0.4	10	40
Lead	A-T-025	Y	N	<0.001	0.0073	<0.002	**<0.01**		0.5	10	50
Antimony	A-T-025	Y	N	0.0195	0.0033	0.0466	**0.0494**		0.06	0.7	5
Selenium	A-T-025	Y	N	0.0016	<0.001	0.0037	**0.0056**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.0128	0.0040	0.0306	**0.0495**		4	50	200
Chloride	A-T-026	Y	N	32	<1	76	**29**		800	15000	25000
Fluoride	A-T-026	Y	N	0.4	0.2	1.0	**2.7**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	1055	31	2529	**1275**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	1060	61	2540	**1560**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	0.00007	0.00003	0.00017	**0.00035**				
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Total PAH	A-T-019	N	N	0.00007	0.00003	0.00017	**0.00035**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	7.6	7.1						
Conductivity (µS/cm)	A-T-037	N	N	2110	123						
Mass Sample (kg)				0.200							
Dry Matter (%)	A-T-044	N	N	81.0							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.295							

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/28							
Client Sample Number				1							
Client Sample ID				TP11							
Depth to Top				0.30							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				28-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				4AB							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	0.0054	0.0136	0.0120	**0.1320**		0.5	2	25
Barium	A-T-025	Y	N	0.0488	0.0495	0.1077	**0.5047**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	0.0044	0.0058	0.0096	**0.0584**		0.5	10	70
Copper	A-T-025	Y	N	0.0104	0.0157	0.0229	**0.1559**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0126	0.0044	0.0278	**0.0525**		0.5	10	30
Nickel	A-T-025	Y	N	0.0016	0.0019	0.0036	**0.0191**		0.4	10	40
Lead	A-T-025	Y	N	0.0079	0.1775	0.0174	**1.6636**		0.5	10	50
Antimony	A-T-025	Y	N	0.0045	0.0026	0.0099	**0.0282**		0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.0098	0.0360	0.0216	**0.3447**		4	50	200
Chloride	A-T-026	Y	N	6	1	14	**17**		800	15000	25000
Fluoride	A-T-026	Y	N	1.0	0.9	2.1	**8.9**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	85	17	187	**233**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	190	73	420	**848**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	0.00013	0.00016	0.00029	**0.00161**				
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	<0.00002	0.00004	<0.00004	**<0.0002**				
Pyrene	A-T-019	N	N	<0.00002	0.00004	<0.00004	**<0.0002**				
Benz [a] anthracene	A-T-019	N	N	<0.00002	0.00003	<0.00004	**<0.0002**				
Chrysene	A-T-019	N	N	<0.00002	0.00004	<0.00004	**<0.0002**				
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	0.00004	<0.00004	**<0.0002**				
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [a] pyrene	A-T-019	N	N	<0.00002	0.00003	<0.00004	**<0.0002**				
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	0.00004	<0.00004	**<0.0002**				
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	0.00004	<0.00004	**<0.0002**				
Total PAH	A-T-019	N	N	0.00013	0.00045	0.00029	**0.00431**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	7.7	7.6						
Conductivity (µS/cm)	A-T-037	N	N	380	146						
Mass Sample (kg)				0.200							
Dry Matter (%)	A-T-044	N	N	85.8							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.370							

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Sample Details									Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/30							
Client Sample Number				3							
Client Sample ID				TP11							
Depth to Top				1.40							
Depth to Bottom									Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				28-Jan-15							
Sample Type				Soil - ES							
Sample Matrix Code				1AB							
Solid Waste Analysis											
pH (pH Units)$_D$	A-T-031	Y	Y						-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N						-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N						-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y						3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N						100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N						500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N						1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N						6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg					
Arsenic	A-T-025	Y	N	0.0023	0.0033	0.0049	**0.0327**		0.5	2	25
Barium	A-T-025	Y	N	0.0466	0.0119	0.1010	**0.1512**		20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.04	1	5
Chromium	A-T-025	Y	N	0.0042	<0.001	0.0092	**0.0101**		0.5	10	70
Copper	A-T-025	Y	N	0.0046	0.0030	0.0100	**0.0317**		2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**		0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0165	0.0023	0.0357	**0.0355**		0.5	10	30
Nickel	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.4	10	40
Lead	A-T-025	Y	N	0.0049	0.0059	0.0105	**0.0594**		0.5	10	50
Antimony	A-T-025	Y	N	0.0028	<0.001	0.0061	**0.0072**		0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**		0.1	0.5	7
Zinc	A-T-025	Y	N	0.0093	0.0027	0.0201	**0.0330**		4	50	200
Chloride	A-T-026	Y	N	2	<1	4	**2**		800	15000	25000
Fluoride	A-T-026	Y	N	2.1	0.3	4.5	**4.7**		10	150	500
Sulphate as SO_4	A-T-026	Y	N	18	<1	39	**16**		1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	102	25	221	**321**		4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**		1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**		500	800	1000
Naphthalene	A-T-019	N	N	0.00008	<0.00002	0.00017	**0.00007**				
Acenapthylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Acenapthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluorene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Phenanthrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benz [a] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Chrysene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [b] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [k] fluoranthene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [a] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Indeno [123-cd] pyrene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Dibenz [ah] anthracene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Benzo [ghi] perylene	A-T-019	N	N	<0.00002	<0.00002	<0.00004	**<0.0002**				
Total PAH	A-T-019	N	N	0.00008	<0.00002	0.00017	**0.00007**				
EPH total (>C10-C36)	A-T-023	N	N	<0.1	<0.1	<0.2	**<1**				
Leach Test Information											
pH (pH Units)	A-T-031	N	Y	7.7	7.0						
Conductivity (µS/cm)	A-T-037	N	N	204	49						
Mass Sample (kg)				0.200							
Dry Matter (%)	A-T-044	N	N	86.8							
Stage 1											
Volume Leachant, L_2 (l)	A-T-046			0.350							
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150							
Stage 2											
Volume Leachant, L_8 (l)	A-T-046			1.391							

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/31						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				W1						
Depth to Top				0.50						
Depth to Bottom										
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				4AB						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y	**8.52**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.5**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.09**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N	**6.9**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y	**7.5**				3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N	**28.2**				100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N	**12**				500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				**2:1**	**8:1**	**2:1**	**Cumulative 10:1**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
				mg/l		**mg/kg**				
Arsenic	A-T-025	Y	N	0.0081	0.0136	0.0174	**0.1336**	0.5	2	25
Barium	A-T-025	Y	N	0.0506	0.0581	0.1094	**0.5843**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0047	0.0049	0.0102	**0.0492**	0.5	10	70
Copper	A-T-025	Y	N	0.0071	0.0237	0.0154	**0.2262**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0085	0.0027	0.0185	**0.0321**	0.5	10	30
Nickel	A-T-025	Y	N	0.0012	0.0048	0.0026	**0.0461**	0.4	10	40
Lead	A-T-025	Y	N	0.0148	0.0944	0.0320	**0.8905**	0.5	10	50
Antimony	A-T-025	Y	N	0.0065	0.0033	0.0142	**0.0359**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0175	0.0600	0.0377	**0.5728**	4	50	200
Chloride	A-T-026	Y	N	2	2	3	**17**	800	15000	25000
Fluoride	A-T-026	Y	N	1.5	0.4	3.2	**5.3**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	18	7	40	**77**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	86	39	186	**437**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.5	7.2					
Conductivity (µS/cm)	A-T-037	N	N	172	79					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	87.0						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.392						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/32						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				W2						
Depth to Top				1.00						
Depth to Bottom										
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				6AB						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y	**8.43**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.59**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.15**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N	**13.7**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y	**8.54**				3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N	**75.5**				100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N	**19**				500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				**2:1**	**8:1**	**2:1**	**Cumulative 10:1**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
				mg/l		**mg/kg**				
Arsenic	A-T-025	Y	N	0.0084	0.0156	0.0189	**0.1537**	0.5	2	25
Barium	A-T-025	Y	N	0.0599	0.0728	0.1354	**0.7357**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0098	0.0084	0.0221	**0.0872**	0.5	10	70
Copper	A-T-025	Y	N	0.0112	0.0486	0.0252	**0.4657**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0100	0.0040	0.0226	**0.0462**	0.5	10	30
Nickel	A-T-025	Y	N	0.0030	0.0094	0.0067	**0.0908**	0.4	10	40
Lead	A-T-025	Y	N	0.0178	0.1164	0.0401	**1.1065**	0.5	10	50
Antimony	A-T-025	Y	N	0.0132	0.0084	0.0298	**0.0907**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0184	0.0783	0.0415	**0.7499**	4	50	200
Chloride	A-T-026	Y	N	1	2	3	**17**	800	15000	25000
Fluoride	A-T-026	Y	N	1.7	0.9	3.7	**9.8**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	16	8	36	**92**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	103	52	233	**579**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.7	7.4					
Conductivity (µS/cm)	A-T-037	N	N	206	105					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	84.3						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.351						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/33						
Client Sample Number										
Client Sample ID				W3						
Depth to Top				2.00						
Depth to Bottom								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				4AB						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y	**8.47**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.74**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.11**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N	**6.3**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y	**4.28**				3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N	**25.5**				100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N	**18**				500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				**2:1**	**8:1**	**2:1**	**Cumulative 10:1**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
				mg/l		**mg/kg**				
Arsenic	A-T-025	Y	N	0.0061	0.0103	0.0136	**0.1015**	0.5	2	25
Barium	A-T-025	Y	N	0.0378	0.0371	0.0839	**0.3801**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0055	0.0055	0.0123	**0.0565**	0.5	10	70
Copper	A-T-025	Y	N	0.0056	0.0291	0.0125	**0.2766**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	0.0002	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0339	0.0163	0.0751	**0.1820**	0.5	10	30
Nickel	A-T-025	Y	N	0.0033	0.0242	0.0074	**0.2287**	0.4	10	40
Lead	A-T-025	Y	N	0.0093	0.1044	0.0207	**0.9833**	0.5	10	50
Antimony	A-T-025	Y	N	0.0084	0.0056	0.0186	**0.0594**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0096	0.0377	0.0213	**0.3603**	4	50	200
Chloride	A-T-026	Y	N	<1	1	<2	**<10**	800	15000	25000
Fluoride	A-T-026	Y	N	1.0	0.7	2.3	**7.6**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	12	5	27	**53**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	92	49	204	**538**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.6	7.3					
Conductivity (µS/cm)	A-T-037	N	N	183	98					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	85.5						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.367						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/34						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				W4						
Depth to Top				1.00						
Depth to Bottom										
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				6AB						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y	**8.32**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.59**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.14**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N	**7.6**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y	**7.34**				3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N	**26.2**				100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N	**16**				500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	Y	N	0.0057	0.0119	0.0130	**0.1170**	0.5	2	25
Barium	A-T-025	Y	N	0.0469	0.0470	0.1068	**0.4834**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0095	0.0083	0.0216	**0.0862**	0.5	10	70
Copper	A-T-025	Y	N	0.0037	0.0195	0.0084	**0.1866**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	0.0003	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0226	0.0070	0.0514	**0.0859**	0.5	10	30
Nickel	A-T-025	Y	N	<0.001	0.0042	<0.002	**<0.01**	0.4	10	40
Lead	A-T-025	Y	N	<0.001	0.0464	<0.002	**<0.01**	0.5	10	50
Antimony	A-T-025	Y	N	0.0103	0.0055	0.0234	**0.0604**	0.06	0.7	5
Selenium	A-T-025	Y	N	0.0014	<0.001	0.0033	**0.0088**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0081	0.0440	0.0184	**0.4205**	4	50	200
Chloride	A-T-026	Y	N	15	3	35	**45**	800	15000	25000
Fluoride	A-T-026	Y	N	1.4	0.7	3.3	**7.5**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	44	13	99	**159**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	143	54	326	**635**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.5	7.3					
Conductivity (µS/cm)	A-T-037	N	N	285	108					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	84.0						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.342						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/35						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				W5						
Depth to Top				1.50						
Depth to Bottom										
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				4A						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y	**8.44**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.51**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.1**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N	**5.1**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y	**4.89**				3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N	**46.9**				100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N	**27**				500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				**2:1**	**8:1**	**2:1**	**Cumulative 10:1**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
				mg/l		**mg/kg**				
Arsenic	A-T-025	Y	N	0.0080	0.0139	0.0177	**0.1366**	0.5	2	25
Barium	A-T-025	Y	N	0.0479	0.0519	0.1067	**0.5272**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0097	0.0084	0.0215	**0.0867**	0.5	10	70
Copper	A-T-025	Y	N	0.0082	0.0324	0.0184	**0.3106**	2	50	100
Mercury	A-T-025	Y	N	0.0002	0.0003	0.0003	**0.0032**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0132	0.0044	0.0295	**0.0531**	0.5	10	30
Nickel	A-T-025	Y	N	0.0018	0.0076	0.0040	**0.0723**	0.4	10	40
Lead	A-T-025	Y	N	0.0071	0.0722	0.0158	**0.6814**	0.5	10	50
Antimony	A-T-025	Y	N	0.0183	0.0106	0.0409	**0.1148**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0373	0.0634	0.0831	**0.6259**	4	50	200
Chloride	A-T-026	Y	N	2	2	4	**16**	800	15000	25000
Fluoride	A-T-026	Y	N	1.2	0.8	2.7	**8.8**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	17	8	38	**86**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	94	47	210	**522**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.6	7.2					
Conductivity (µS/cm)	A-T-037	N	N	187	94					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	85.1						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.363						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/36						
Client Sample Number										
Client Sample ID				W6						
Depth to Top				0.30						
Depth to Bottom								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				4AB						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y	**8.28**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.64**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.2**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N	**9.5**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y	**8.27**				3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N	**44.6**				100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N	**11**				500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				**2:1**	**8:1**	**2:1**	**Cumulative 10:1**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
				mg/l		**mg/kg**				
Arsenic	A-T-025	Y	N	0.0081	0.0154	0.0190	**0.1526**	0.5	2	25
Barium	A-T-025	Y	N	0.0373	0.0448	0.0868	**0.4562**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0049	0.0058	0.0113	**0.0590**	0.5	10	70
Copper	A-T-025	Y	N	0.0057	0.0281	0.0132	**0.2699**	2	50	100
Mercury	A-T-025	Y	N	0.0001	0.0005	0.0003	**0.0045**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0111	0.0052	0.0259	**0.0593**	0.5	10	30
Nickel	A-T-025	Y	N	<0.001	0.0035	<0.002	**<0.01**	0.4	10	40
Lead	A-T-025	Y	N	0.0054	0.0635	0.0125	**0.6032**	0.5	10	50
Antimony	A-T-025	Y	N	0.0061	0.0037	0.0142	**0.0402**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0075	0.0393	0.0176	**0.3772**	4	50	200
Chloride	A-T-026	Y	N	1	2	3	**15**	800	15000	25000
Fluoride	A-T-026	Y	N	1.4	0.9	3.1	**9.3**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	12	6	28	**66**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	95	54	221	**595**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.6	7.4					
Conductivity (µS/cm)	A-T-037	N	N	190	107					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	82.7						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.321						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/37						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				W7						
Depth to Top				1.00						
Depth to Bottom										
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				4A						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y	**8.38**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.31**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.01**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N	**8.6**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y	**5.03**				3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N	**21.9**				100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N	**101**				500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				**2:1**	**8:1**	**2:1**	**Cumulative 10:1**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
				mg/l		**mg/kg**				
Arsenic	A-T-025	Y	N	0.0062	0.0109	0.0132	**0.1061**	0.5	2	25
Barium	A-T-025	Y	N	0.0674	0.0640	0.1441	**0.6515**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0027	0.0032	0.0057	**0.0316**	0.5	10	70
Copper	A-T-025	Y	N	0.0032	0.0108	0.0068	**0.1028**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0058	0.0022	0.0123	**0.0255**	0.5	10	30
Nickel	A-T-025	Y	N	0.0010	0.0034	0.0021	**0.0321**	0.4	10	40
Lead	A-T-025	Y	N	0.0018	0.0191	0.0039	**0.1786**	0.5	10	50
Antimony	A-T-025	Y	N	0.0032	0.0016	0.0067	**0.0173**	0.06	0.7	5
Selenium	A-T-025	Y	N	0.0014	<0.001	0.0029	**0.0050**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0151	0.0281	0.0322	**0.2736**	4	50	200
Chloride	A-T-026	Y	N	2	1	3	**13**	800	15000	25000
Fluoride	A-T-026	Y	N	1.1	0.6	2.3	**6.1**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	21	8	45	**94**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	101	46	216	**513**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.6	7.4					
Conductivity (µS/cm)	A-T-037	N	N	201	92					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	87.7						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.402						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/38						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				W8						
Depth to Top				0.80						
Depth to Bottom										
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				6AE						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y	**8.81**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.52**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.08**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N	**4.6**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y	**1.49**				3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N	**<0.08**				100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N	**<10**				500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				**2:1**	**8:1**	**2:1**	**Cumulative 10:1**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
				mg/l		**mg/kg**				
Arsenic	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.5	2	25
Barium	A-T-025	Y	N	0.0189	0.0174	0.0453	**0.1821**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0101	0.0034	0.0244	**0.0418**	0.5	10	70
Copper	A-T-025	Y	N	<0.001	0.0017	<0.002	**<0.01**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	<0.0001	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0081	0.0044	0.0196	**0.0488**	0.5	10	30
Nickel	A-T-025	Y	N	<0.001	0.0015	<0.002	**<0.01**	0.4	10	40
Lead	A-T-025	Y	N	<0.001	0.0014	<0.002	**<0.01**	0.5	10	50
Antimony	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0087	0.0112	0.0208	**0.1141**	4	50	200
Chloride	A-T-026	Y	N	2	1	5	**12**	800	15000	25000
Fluoride	A-T-026	Y	N	1.3	0.6	3.1	**6.8**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	29	10	70	**122**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	107	44	257	**516**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.7	7.3					
Conductivity (µS/cm)	A-T-037	N	N	213	88					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	80.7						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.293						

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/39						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				W9						
Depth to Top				0.50						
Depth to Bottom										
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				4AB						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y	**8.57**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.61**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.11**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N	**8.1**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y	**7.1**				3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N	**29.6**				100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N	**41**				500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				**2:1**	**8:1**	**2:1**	**Cumulative 10:1**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
				mg/l		**mg/kg**				
Arsenic	A-T-025	Y	N	0.0130	0.0199	0.0289	**0.1975**	0.5	2	25
Barium	A-T-025	Y	N	0.0527	0.0633	0.1170	**0.6376**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0051	0.0090	0.0113	**0.0887**	0.5	10	70
Copper	A-T-025	Y	N	0.0106	0.0468	0.0235	**0.4464**	2	50	100
Mercury	A-T-025	Y	N	0.0001	0.0003	0.0002	**0.0033**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0090	0.0028	0.0200	**0.0344**	0.5	10	30
Nickel	A-T-025	Y	N	<0.001	0.0046	<0.002	**<0.01**	0.4	10	40
Lead	A-T-025	Y	N	0.0109	0.1208	0.0243	**1.1380**	0.5	10	50
Antimony	A-T-025	Y	N	0.0126	0.0063	0.0281	**0.0700**	0.06	0.7	5
Selenium	A-T-025	Y	N	0.0011	<0.001	0.0024	**0.0059**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0321	0.1094	0.0713	**1.0497**	4	50	200
Chloride	A-T-026	Y	N	1	2	3	**24**	800	15000	25000
Fluoride	A-T-026	Y	N	1.3	0.8	2.8	**8.2**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	16	7	36	**80**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	94	51	209	**559**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.6	7.6					
Conductivity (µS/cm)	A-T-037	N	N	188	103					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	85.5						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.366						

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Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	15/00554/40						
Client Sample Number										
Client Sample ID				W10						
Depth to Top				0.30						
Depth to Bottom								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Date Sampled				26-Jan-15						
Sample Type				Soil - ES						
Sample Matrix Code				4AB						
Solid Waste Analysis										
pH (pH Units)$_D$	A-T-031	Y	Y	**8.64**				-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.6**				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.11**				-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	Y	N	**6.2**				-	-	10
Total Organic Carbon (%)$_D$	A-T-032	Y	Y	**5.44**				3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N	**121**				100	-	-
Mineral Oil (mg/kg)$_A$	A-T-007	N	N	**<10**				500	-	-
Sum of 7 PCBs (mg/kg)$_D$	A-T-004	N	N	**<0.007**				1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**				6	-	-
Eluate Analysis				**2:1**	**8:1**	**2:1**	**Cumulative 10:1**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
				mg/l		**mg/kg**				
Arsenic	A-T-025	Y	N	0.0113	0.0176	0.0248	**0.1739**	0.5	2	25
Barium	A-T-025	Y	N	0.0426	0.0424	0.0932	**0.4322**	20	100	300
Cadmium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.04	1	5
Chromium	A-T-025	Y	N	0.0041	0.0051	0.0089	**0.0513**	0.5	10	70
Copper	A-T-025	Y	N	0.0083	0.0289	0.0182	**0.2763**	2	50	100
Mercury	A-T-025	Y	N	<0.0001	0.0002	<0.0002	**<0.001**	0.01	0.2	2
Molybdenum	A-T-025	Y	N	0.0072	0.0028	0.0158	**0.0323**	0.5	10	30
Nickel	A-T-025	Y	N	0.0017	0.0047	0.0038	**0.0449**	0.4	10	40
Lead	A-T-025	Y	N	0.0034	0.0526	0.0075	**0.4929**	0.5	10	50
Antimony	A-T-025	Y	N	0.0106	0.0053	0.0233	**0.0584**	0.06	0.7	5
Selenium	A-T-025	Y	N	<0.001	<0.001	<0.002	**<0.01**	0.1	0.5	7
Zinc	A-T-025	Y	N	0.0295	0.0372	0.0647	**0.3726**	4	50	200
Chloride	A-T-026	Y	N	1	<1	3	**1**	800	15000	25000
Fluoride	A-T-026	Y	N	1.0	0.7	2.1	**7.1**	10	150	500
Sulphate as SO_4	A-T-026	Y	N	10	4	22	**47**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	85	46	186	**503**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20	<20	<40	**<200**	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	Y	7.5	7.3					
Conductivity (µS/cm)	A-T-037	N	N	170	91					
Mass Sample (kg)				0.200						
Dry Matter (%)	A-T-044	N	N	86.3						
Stage 1										
Volume Leachant, L_2 (l)	A-T-046			0.350						
Filtered Eluate Volume, VE_1 (l)	A-T-046			0.150						
Stage 2										
Volume Leachant, L_8 (l)	A-T-046			1.379						

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Envirolab Job Number: 15/00554
Client: Structural Soils Limited (Castleford)
Client Project Name: Angel Square
Client Project Ref: 763315

	Units	Method								
Lab Sample ID			15/00554/1	15/00554/3	15/00554/5	15/00554/7	15/00554/10	15/00554/12	15/00554/13	15/00554/14
Client Sample No			1	1	1	1	3	2	3	4
Client Sample ID			TP1	TP2	TP3	TP4	TP4a	TP5	TP5	TP5
Depth to Top			0.30	0.30	0.30	0.40	2.00	1.40	1.80	2.50
Depth to Bottom										
Date Sampled			26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15	27-Jan-15
Sample Type			Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES
Sample Matrix Code			5A	5AB	6A	4AB	4AB	4AE	4A	3A
Asbestos in Soil (inc. matrix)										
Asbestos in soil		A-T-045	Chrysotile	Chrysotile	NAD	NAD	Chrysotile	NAD	NAD	NAD
Asbestos Matrix (visual)		A-T-045	-	-	-	-	-	-	-	-
Asbestos Matrix (microscope)		A-T-045	Loose Fibres	Loose Fibres	-	-	Loose Fibres	-	-	-
Asbestos ACM - Suitable for Water Absorption Test?		Gravimetry	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Envirolab Job Number: 15/00554
Client: Structural Soils Limited (C
Client Project Name: Angel Square
Client Project Ref: 763315

Lab Sample ID			15/00554/15	15/00554/17	15/00554/18	15/00554/19	15/00554/20	15/00554/22	15/00554/23	15/00554/25
Client Sample No			1	3	1	2	1	1	2	2
Client Sample ID			TP6	TP6	TP7	TP7	TP8	TP9	TP9	TP10a
Depth to Top			0.40	1.50	0.40	0.80	0.30	0.25	1.00	1.00
Depth to Bottom										
Date Sampled			27-Jan-15	27-Jan-15	28-Jan-15	28-Jan-15	28-Jan-15	28-Jan-15	28-Jan-15	27-Jan-15
Sample Type			Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES
Sample Matrix Code	**Units**	**Method**		5A	4AB	5A	4A	4A	5A	4ABE
Asbestos in Soil (inc. matrix)										
Asbestos in soil		A-T-045	NAD	NAD	NAD	NAD	NAD	NAD	NAD	Chrysotile
Asbestos Matrix (visual)		A-T-045	-	-	-	-	-	-	-	-
Asbestos Matrix (microscope)		A-T-045	-	-	-	-	-	-	-	Loose Fibres
Asbestos ACM - Suitable for Water Absorption Test?		Gravimetry	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Envirolab Job Number: 15/00554
Client: Structural Soils Limited (C
Client Project Name: Angel Square
Client Project Ref: 763315

Lab Sample ID	Units	Method	15/00554/27	15/00554/28	15/00554/30	15/00554/31	15/00554/32	15/00554/33	15/00554/34	15/00554/35
Client Sample No			4	1	3					
Client Sample ID			TP10a	TP11	TP11	W1	W2	W3	W4	W5
Depth to Top			2.60	0.30	1.40	0.50	1.00	2.00	1.00	1.50
Depth to Bottom										
Date Sampled			27-Jan-15	28-Jan-15	28-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15
Sample Type			Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES
Sample Matrix Code			4ABD	4AB	1AB	4AB	6AB	4AB	6AB	4A
Asbestos in Soil (inc. matrix)										
Asbestos in soil		A-T-045	NAD	NAD	NAD					
Asbestos Matrix (visual)		A-T-045	-	-	-					
Asbestos Matrix (microscope)		A-T-045	-	-	-					
Asbestos ACM - Suitable for Water Absorption Test?		Gravimetry	N/A	N/A	N/A					

Envirolab Job Number: 15/00554
Client: Structural Soils Limited (C
Client Project Name: Angel Square
Client Project Ref: 763315

	Units	Method					
Lab Sample ID			15/00554/36	15/00554/37	15/00554/38	15/00554/39	15/00554/40
Client Sample No							
Client Sample ID			W6	W7	W8	W9	W10
Depth to Top			0.30	1.00	0.80	0.50	0.30
Depth to Bottom							
Date Sampled			26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15	26-Jan-15
Sample Type			Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES
Sample Matrix Code			4AB	4A	6AE	4AB	4AB
Asbestos in Soil (inc. matrix)							
Asbestos in soil		A-T-045					
Asbestos Matrix (visual)		A-T-045					
Asbestos Matrix (microscope)		A-T-045					
Asbestos ACM - Suitable for Water Absorption Test?		Gravimetry					

APPENDIX D

(i) Gas/Groundwater Monitoring Results

IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks
Round 1	-	-	1010	1010	Weather: Raining + Ground: Wet + Wind: Medium + Air Temp: 13DegC
Round 2	-	-	1020	1016	GA2000 SN-GA07811 + Weather: Overcast + Ground: Dry + Wind: None + Air Temp: 13DegC
Round 3	-	-	992	994	GA2000 + Weather: Overcast + Ground: Wet + Wind: None + Air Temp: 14DegC
Round 4	-	-	982	982	Ground: Wet + Wind: None + Air Temp: 10DegC
Round 5	-	-	994	994	Weather: Raining + Ground: Wet + Wind: None + Air Temp: 4DegC
Round 6	-	-	1033	1033	Ground: Dry + Wind: None + Air Temp: -2DegC

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL01	1	50	1	2.00	2.06	1.00 to 2.00	20/09/2013 10:00:00	1010	1010	0.0	1.97	0.0	0.0	20.7	0.0	0.0	0.0
BHL01	1	50	1		2.06	1.00 to 2.00	15 secs	1010	1010	0.0	1.97	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	1	50	1		2.06	1.00 to 2.00	30 secs	1010	1010	0.0	1.97	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	1	50	1		2.06	1.00 to 2.00	60 secs	1010	1010	0.0	1.97	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	1	50	1		2.06	1.00 to 2.00	90 secs	1010	1010	0.0	1.97	0.1	0.0	20.6	0.0	0.0	0.0
BHL01	1	50	1		2.06	1.00 to 2.00	120 secs	1010	1010	0.0	1.97	0.1	0.0	20.6	0.0	0.0	0.0
BHL01	1	50	1		2.06	1.00 to 2.00	180 secs	1010	1010	0.0	1.97	0.1	0.0	20.6	0.0	0.0	0.0
BHL01	1	50	1		2.06	1.00 to 2.00	240 secs	1010	1010	0.0	1.97	0.1	0.0	20.6	0.0	0.0	0.0
BHL01	1	50	1		2.06	1.00 to 2.00	300 secs	1010	1010	0.0	1.97	0.1	0.0	20.6	0.0	0.0	0.0
BHL01	2	50	1	29.50	29.98	18.00 to 29.50	20/09/2013 10:10:00	1010	1010	-5.3	19.76	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	2	50	1		29.98	18.00 to 29.50	15 secs	1010	1010	-5.3	19.76	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	2	50	1		29.98	18.00 to 29.50	30 secs	1010	1010	-5.3	19.76	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	2	50	1		29.98	18.00 to 29.50	60 secs	1010	1010	-5.3	19.76	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	2	50	1		29.98	18.00 to 29.50	90 secs	1010	1010	-5.3	19.76	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	2	50	1		29.98	18.00 to 29.50	120 secs	1010	1010	-5.3	19.76	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	2	50	1		29.98	18.00 to 29.50	180 secs	1010	1010	-5.3	19.76	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	2	50	1		29.98	18.00 to 29.50	240 secs	1010	1010	-5.3	19.76	0.0	0.0	20.6	0.0	0.0	0.0
BHL01	2	50	1		29.98	18.00 to 29.50	300 secs	1010	1010	-5.3	19.76	0.0	0.0	20.6	0.0	0.0	0.0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By	Date	Checked By	Date	Contract Ref:
G. Rushton	02/07/15	J McCarthy	02/07/15	762850

Contract: **NOMA Plot L Manchester**

AGS

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL01	1	50	3	2.00	1.90	1.00 to 2.00	25/10/2013 16:50:00	-	994	0.0	1.45	0.1	0.0	20.7	0.0	0.0	0.0
BHL01	1	50	3		1.90	1.00 to 2.00	15 secs	-	994	0.0	1.45	0.1	0.0	20.1	0.0	0.0	0.0
BHL01	1	50	3		1.90	1.00 to 2.00	30 secs	-	994	0.0	1.45	0.1	0.0	20.2	0.0	0.0	0.0
BHL01	1	50	3		1.90	1.00 to 2.00	60 secs	-	994	0.0	1.45	0.1	0.0	20.2	0.0	0.0	0.0
BHL01	1	50	3		1.90	1.00 to 2.00	90 secs	-	994	0.0	1.45	0.1	0.0	20.3	0.0	0.0	0.0
BHL01	1	50	3		1.90	1.00 to 2.00	120 secs	-	994	0.0	1.45	0.1	0.0	20.3	0.0	0.0	0.0
BHL01	1	50	3		1.90	1.00 to 2.00	180 secs	-	994	0.0	1.45	0.1	0.0	20.4	0.0	0.0	0.0
BHL01	1	50	3		1.90	1.00 to 2.00	240 secs	-	994	0.0	1.45	0.1	0.0	20.3	0.0	0.0	0.0
BHL01	1	50	3		1.90	1.00 to 2.00	300 secs	-	994	0.0	1.45	0.1	0.0	20.4	0.0	0.0	0.0
BHL01	2	50	3	29.50	29.79	18.00 to 29.50	25/10/2013 17:00:00	991	994	4.7	19.28	0.1	0.0	20.7	0.0	0.0	0.0
BHL01	2	50	3		29.79	18.00 to 29.50	15 secs	991	994	4.7	19.28	0.6	0.0	17.6	0.0	0.0	0.0
BHL01	2	50	3		29.79	18.00 to 29.50	30 secs	991	994	4.7	19.28	0.6	0.0	15.3	0.0	0.0	0.0
BHL01	2	50	3		29.79	18.00 to 29.50	60 secs	991	994	4.7	19.28	0.6	0.0	15.2	0.0	0.0	0.0
BHL01	2	50	3		29.79	18.00 to 29.50	90 secs	991	994	4.7	19.28	0.6	0.0	15.2	0.0	0.0	0.0
BHL01	2	50	3		29.79	18.00 to 29.50	120 secs	991	994	4.7	19.28	0.6	0.0	15.2	0.0	0.0	0.0
BHL01	2	50	3		29.79	18.00 to 29.50	180 secs	991	994	4.7	19.28	0.6	0.0	15.3	0.0	0.0	0.0
BHL01	2	50	3		29.79	18.00 to 29.50	240 secs	991	994	4.7	19.28	0.7	0.0	15.4	0.0	0.0	0.0
BHL01	2	50	3		29.79	18.00 to 29.50	300 secs	991	994	4.7	19.28	0.7	0.0	15.5	0.0	0.0	0.0
BHL01	1	50	4	2.00	2.04	1.00 to 2.00	05/11/2013 09:00:00	982	982	0.0	1.87	0.1	0.1	20.7	-	0.0	0.0
BHL01	1	50	4		2.04	1.00 to 2.00	15 secs	982	982	0.0	1.87	1.9	0.1	19.7	-	0.0	0.0
BHL01	1	50	4		2.04	1.00 to 2.00	30 secs	982	982	0.0	1.87	2.0	0.1	18.2	-	0.0	0.0
BHL01	1	50	4		2.04	1.00 to 2.00	60 secs	982	982	0.0	1.87	2.0	0.1	17.8	-	0.0	0.0
BHL01	1	50	4		2.04	1.00 to 2.00	90 secs	982	982	0.0	1.87	2.0	0.1	17.8	-	0.0	0.0
BHL01	1	50	4		2.04	1.00 to 2.00	120 secs	982	982	0.0	1.87	2.0	0.1	17.8	-	0.0	0.0
BHL01	1	50	4		2.04	1.00 to 2.00	180 secs	982	982	0.0	1.87	2.0	0.2	17.7	-	0.0	0.0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL01	1	50	4		2.04	1.00 to 2.00	240 secs	982	982	0.0	1.87	2.0	0.1	17.7	-	0.0	0.0
BHL01	1	50	4		2.04	1.00 to 2.00	300 secs	982	982	0.0	1.87	2.0	0.1	17.7	-	0.0	0.0
BHL01	2	50	4	29.50	2.04	18.00 to 29.50	05/11/2013 09:15:00	982	982	0.1	1.87	0.1	0.1	20.7	-	0.0	0.0
BHL01	2	50	4		2.04	18.00 to 29.50	15 secs	982	982	0.1	1.87	1.1	0.1	20.2	-	0.0	0.0
BHL01	2	50	4		2.04	18.00 to 29.50	30 secs	982	982	0.0	1.87	1.2	0.1	19.6	-	0.0	0.0
BHL01	2	50	4		2.04	18.00 to 29.50	60 secs	982	982	0.0	1.87	1.2	0.1	19.4	-	0.0	0.0
BHL01	2	50	4		2.04	18.00 to 29.50	90 secs	982	982	0.0	1.87	1.2	0.1	19.4	-	0.0	0.0
BHL01	2	50	4		2.04	18.00 to 29.50	120 secs	982	982	0.0	1.87	1.2	0.1	19.4	-	0.0	0.0
BHL01	2	50	4		2.04	18.00 to 29.50	180 secs	982	982	0.0	1.87	1.2	0.1	19.4	-	0.0	0.0
BHL01	2	50	4		2.04	18.00 to 29.50	240 secs	982	982	0.0	1.87	1.2	0.1	19.4	-	0.0	0.0
BHL01	2	50	4		2.04	18.00 to 29.50	300 secs	982	982	0.0	1.87	1.2	0.1	19.5	-	0.0	0.0
BHL01	1	50	6	2.00	2.06	1.00 to 2.00	25/11/2013 09:00:00	1034	1033	-0.1	1.97	0.2	0.0	20.9	0.0	0.0	0.0
BHL01	1	50	6		2.06	1.00 to 2.00	15 secs	1034	1033	-0.1	1.97	1.8	0.0	19.5	0.0	0.0	0.0
BHL01	1	50	6		2.06	1.00 to 2.00	30 secs	1034	1033	-0.1	1.97	1.8	0.0	17.8	0.0	0.0	0.0
BHL01	1	50	6		2.06	1.00 to 2.00	60 secs	1034	1033	-0.1	1.97	1.8	0.0	17.5	0.0	0.0	0.0
BHL01	1	50	6		2.06	1.00 to 2.00	90 secs	1034	1033	-0.1	1.97	1.8	0.0	17.5	0.0	0.0	0.0
BHL01	1	50	6		2.06	1.00 to 2.00	120 secs	1034	1033	-0.1	1.97	1.8	0.0	17.5	0.0	0.0	0.0
BHL01	1	50	6		2.06	1.00 to 2.00	180 secs	1034	1033	-0.1	1.97	1.8	0.0	17.5	0.0	0.0	0.0
BHL01	1	50	6		2.06	1.00 to 2.00	240 secs	1034	1033	-0.1	1.97	1.8	0.0	17.5	0.0	0.0	0.0
BHL01	1	50	6		2.06	1.00 to 2.00	300 secs	1034	1033	-0.1	1.97	1.8	0.0	17.5	0.0	0.0	0.0
BHL01	2	50	6	29.50	30.00	18.00 to 29.50	25/11/2013 09:10:00	1041	1033	-5.6	19.49	0.2	0.0	20.9	0.0	0.0	0.0
BHL01	2	50	6		30.00	18.00 to 29.50	15 secs	1041	1033	-5.6	19.49	1.5	0.0	20.2	0.0	0.0	0.0
BHL01	2	50	6		30.00	18.00 to 29.50	30 secs	1041	1033	-5.6	19.49	1.5	0.0	19.2	0.0	0.0	0.0
BHL01	2	50	6		30.00	18.00 to 29.50	60 secs	1041	1033	-5.6	19.49	1.5	0.0	19.0	0.0	0.0	0.0
BHL01	2	50	6		30.00	18.00 to 29.50	90 secs	1041	1033	-5.6	19.49	1.5	0.0	19.2	0.0	0.0	0.0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL01	2	50	6		30.00	18.00 to 29.50	120 secs	1041	1033	-5.6	19.49	1.5	0.0	19.2	0.0	0.0	0.0
BHL01	2	50	6		30.00	18.00 to 29.50	180 secs	1041	1033	-5.6	19.49	1.5	0.0	19.1	0.0	0.0	0.0
BHL01	2	50	6		30.00	18.00 to 29.50	240 secs	1041	1033	-5.6	19.49	1.5	0.0	19.3	0.0	0.0	0.0
BHL01	2	50	6		30.00	18.00 to 29.50	300 secs	1041	1033	-5.6	19.49	1.5	0.0	19.3	0.0	0.0	0.0
BHL01	2	50	8	29.50	30.00	18.00 to 29.50	18/03/2015 06:00:00	1033	1032	-0.1	19.33	0.1	0.0	20.1	0.0	0.0	0.0
BHL01	2	50	8		30.00	18.00 to 29.50	15 secs	1033	1032	-0.1	19.33	0.1	0.0	20.1	0.0	0.0	0.0
BHL01	2	50	8		30.00	18.00 to 29.50	30 secs	1033	1032	-0.1	19.33	0.1	0.0	20.1	0.0	0.0	0.0
BHL01	2	50	8		30.00	18.00 to 29.50	60 secs	1033	1032	-0.1	19.33	0.1	0.0	20.1	0.0	0.0	0.0
BHL01	2	50	8		30.00	18.00 to 29.50	90 secs	1033	1032	-0.1	19.33	0.0	0.0	20.2	0.0	0.0	0.0
BHL01	2	50	8		30.00	18.00 to 29.50	120 secs	1033	1032	-0.1	19.33	0.0	0.0	20.2	0.0	0.0	0.0
BHL01	2	50	8		30.00	18.00 to 29.50	180 secs	1033	1032	-0.1	19.33	0.0	0.0	20.2	0.0	0.0	0.0
BHL01	2	50	8		30.00	18.00 to 29.50	240 secs	1033	1032	-0.1	19.33	0.0	0.0	20.2	0.0	0.0	0.0
BHL01	2	50	8		30.00	18.00 to 29.50	300 secs	1033	1032	-0.1	19.33	0.0	0.0	20.2	0.0	0.0	0.0
BHL01	1	50	8	2.00	2.05	1.00 to 2.00	18/03/2015 06:05:01	1033	1032	-0.1	1.99	1.3	0.0	18.3	0.0	0.0	0.0
BHL01	1	50	8		2.05	1.00 to 2.00	15 secs	1033	1032	-0.1	1.99	1.3	0.0	18.3	0.0	0.0	0.0
BHL01	1	50	8		2.05	1.00 to 2.00	30 secs	1033	1032	-0.1	1.99	0.7	0.0	18.3	0.0	0.0	0.0
BHL01	1	50	8		2.05	1.00 to 2.00	60 secs	1033	1032	-0.1	1.99	0.7	0.0	19.1	0.0	0.0	0.0
BHL01	1	50	8		2.05	1.00 to 2.00	90 secs	1033	1032	-0.1	1.99	0.7	0.0	19.1	0.0	0.0	0.0
BHL01	1	50	8		2.05	1.00 to 2.00	120 secs	1033	1032	-0.1	1.99	0.7	0.0	19.1	0.0	0.0	0.0
BHL01	1	50	8		2.05	1.00 to 2.00	180 secs	1033	1032	-0.1	1.99	0.7	0.0	19.1	0.0	0.0	0.0
BHL01	1	50	8		2.05	1.00 to 2.00	240 secs	1033	1032	-0.1	1.99	0.7	0.0	19.1	0.0	0.0	0.0
BHL01	1	50	8		2.05	1.00 to 2.00	300 secs	1033	1032	-0.1	1.99	0.7	0.0	19.1	0.0	0.0	0.0
BHL01	1	50	10	2.00	2.20	1.00 to 2.00	17/06/2015 09:00:00	-	-	0.0	2.00	0.5	0.0	20.0	0.0	-	-
BHL01	1	50	10		2.20	1.00 to 2.00	15 secs	-	-	0.0	2.00	2.7	0.0	17.0	0.0	-	-
BHL01	1	50	10		2.20	1.00 to 2.00	30 secs	-	-	0.0	2.00	2.7	0.0	16.6	0.0	-	-

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL01	1	50	10		2.20	1.00 to 2.00	60 secs	-	-	0.0	2.00	2.8	0.0	16.5	0.0	-	-
BHL01	1	50	10		2.20	1.00 to 2.00	90 secs	-	-	0.0	2.00	2.8	0.0	16.4	0.0	-	-
BHL01	1	50	10		2.20	1.00 to 2.00	120 secs	-	-	0.0	2.00	2.8	0.0	16.4	0.0	-	-
BHL01	1	50	10		2.20	1.00 to 2.00	180 secs	-	-	0.0	2.00	2.9	0.0	16.3	0.0	-	-
BHL01	1	50	10		2.20	1.00 to 2.00	240 secs	-	-	0.0	2.00	2.9	0.0	16.3	0.0	-	-
BHL01	1	50	10		2.20	1.00 to 2.00	300 secs	-	-	0.0	2.00	2.9	0.0	16.3	0.0	-	-
BHL01	2	50	10	29.50	30.15	18.00 to 29.50	17/06/2015 09:10:00	-	-	0.0	19.27	2.8	0.0	16.3	0.0	-	-
BHL01	2	50	10		30.15	18.00 to 29.50	15 secs	-	-	0.0	19.27	2.6	0.0	17.0	0.0	-	-
BHL01	2	50	10		30.15	18.00 to 29.50	30 secs	-	-	0.0	19.27	2.6	0.0	17.0	0.0	-	-
BHL01	2	50	10		30.15	18.00 to 29.50	60 secs	-	-	0.0	19.27	2.6	0.0	17.0	0.0	-	-
BHL01	2	50	10		30.15	18.00 to 29.50	90 secs	-	-	0.0	19.27	2.6	0.0	17.0	0.0	-	-
BHL01	2	50	10		30.15	18.00 to 29.50	120 secs	-	-	0.0	19.27	2.6	0.0	17.0	0.0	-	-
BHL01	2	50	10		30.15	18.00 to 29.50	180 secs	-	-	0.0	19.27	2.5	0.0	17.1	0.0	-	-
BHL01	2	50	10		30.15	18.00 to 29.50	240 secs	-	-	0.0	19.27	2.4	0.0	17.2	0.0	-	-
BHL01	2	50	10		30.15	18.00 to 29.50	300 secs	-	-	0.0	19.27	2.4	0.0	17.3	0.0	-	-
BHL01	2	50	10		30.15	18.00 to 29.50	360 secs	-	-	0.0	19.27	2.3	0.0	17.4	0.0	-	-
BHL01	2	50	10		30.15	18.00 to 29.50	420 secs	-	-	0.0	19.27	2.2	0.0	17.5	0.0	-	-
BHL02A	2	50	1	29.50	30.30	20.00 to 29.50	20/09/2013 09:00:00	1010	1010	0.0	23.15	0.0	0.0	20.5	0.0	0.0	0.0
BHL02A	2	50	1		30.30	20.00 to 29.50	15 secs	1010	1010	0.0	23.15	0.0	0.0	20.5	0.0	0.0	0.0
BHL02A	2	50	1		30.30	20.00 to 29.50	30 secs	1010	1010	0.0	23.15	0.0	0.0	20.5	0.0	0.0	0.0
BHL02A	2	50	1		30.30	20.00 to 29.50	60 secs	1010	1010	0.0	23.15	0.0	0.0	20.5	0.0	0.0	0.0
BHL02A	2	50	1		30.30	20.00 to 29.50	90 secs	1010	1010	0.0	23.15	0.0	0.0	20.6	0.0	0.0	0.0
BHL02A	2	50	1		30.30	20.00 to 29.50	120 secs	1010	1010	0.0	23.15	0.0	0.0	20.6	0.0	0.0	0.0
BHL02A	2	50	1		30.30	20.00 to 29.50	180 secs	1010	1010	0.0	23.15	0.0	0.0	20.6	0.0	0.0	0.0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL02A	2	50	1		30.30	20.00 to 29.50	240 secs	1010	1010	0.0	23.15	0.0	0.0	20.6	0.0	0.0	0.0
BHL02A	2	50	1		30.30	20.00 to 29.50	300 secs	1010	1010	0.0	23.15	0.0	0.0	20.6	0.0	0.0	0.0
BHL02A	1	50	1	1.70	1.81	0.50 to 1.70	20/09/2013 09:10:00	1010	1010	0.0	DRY	0.0	0.0	20.6	0.0	0.0	0.0
BHL02A	1	50	1		1.81	0.50 to 1.70	15 secs	1010	1010	0.0	DRY	1.0	0.0	20.1	0.0	0.0	0.0
BHL02A	1	50	1		1.81	0.50 to 1.70	30 secs	1010	1010	0.0	DRY	1.1	0.0	19.6	0.0	0.0	0.0
BHL02A	1	50	1		1.81	0.50 to 1.70	60 secs	1010	1010	0.0	DRY	1.1	0.0	19.5	0.0	0.0	0.0
BHL02A	1	50	1		1.81	0.50 to 1.70	90 secs	1010	1010	0.0	DRY	1.1	0.0	19.5	0.0	0.0	0.0
BHL02A	1	50	1		1.81	0.50 to 1.70	120 secs	1010	1010	0.0	DRY	1.1	0.0	19.5	0.0	0.0	0.0
BHL02A	1	50	1		1.81	0.50 to 1.70	180 secs	1010	1010	0.0	DRY	1.1	0.0	19.5	0.0	0.0	0.0
BHL02A	1	50	1		1.81	0.50 to 1.70	240 secs	1010	1010	0.0	DRY	1.1	0.0	19.5	0.0	0.0	0.0
BHL02A	1	50	1		1.81	0.50 to 1.70	300 secs	1010	1010	0.0	DRY	1.1	0.0	19.5	0.0	0.0	0.0
BHL02A	2	50	2	29.50	30.33	20.00 to 29.50	10/10/2013 09:00:00	1020	1020	0.0	23.14	0.2	0.0	20.9	0.0	0.0	0.0
BHL02A	2	50	2		30.33	20.00 to 29.50	15 secs	1020	1020	0.0	23.14	0.2	0.0	20.2	0.0	0.0	0.0
BHL02A	2	50	2		30.33	20.00 to 29.50	30 secs	1020	1020	0.0	23.14	0.2	0.0	20.5	0.0	0.0	0.0
BHL02A	2	50	2		30.33	20.00 to 29.50	60 secs	1020	1020	0.0	23.14	0.2	0.0	20.6	0.0	0.0	0.0
BHL02A	2	50	2		30.33	20.00 to 29.50	90 secs	1020	1020	0.0	23.14	0.2	0.0	20.3	0.0	0.0	0.0
BHL02A	2	50	2		30.33	20.00 to 29.50	120 secs	1020	1020	0.0	23.14	0.2	0.0	20.6	0.0	0.0	0.0
BHL02A	2	50	2		30.33	20.00 to 29.50	180 secs	1020	1020	0.0	23.14	0.2	0.0	20.5	0.0	0.0	0.0
BHL02A	2	50	2		30.33	20.00 to 29.50	240 secs	1020	1020	0.0	23.14	0.2	0.0	20.4	0.0	0.0	0.0
BHL02A	2	50	2		30.33	20.00 to 29.50	300 secs	1020	1020	0.0	23.14	0.2	0.0	20.5	0.0	0.0	0.0
BHL02A	1	50	2	1.70	1.81	0.50 to 1.70	10/10/2013 09:10:00	1020	1020	0.0	DRY	0.2	0.0	20.9	0.0	0.0	0.0
BHL02A	1	50	2		1.81	0.50 to 1.70	15 secs	1020	1020	0.0	DRY	1.5	0.0	19.7	0.0	0.0	0.0
BHL02A	1	50	2		1.81	0.50 to 1.70	30 secs	1020	1020	0.0	DRY	1.5	0.0	19.1	0.0	0.0	0.0
BHL02A	1	50	2		1.81	0.50 to 1.70	60 secs	1020	1020	0.0	DRY	1.5	0.0	19.5	0.0	0.0	0.0
BHL02A	1	50	2		1.81	0.50 to 1.70	90 secs	1020	1020	0.0	DRY	1.5	0.0	19.2	0.0	0.0	0.0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By	Date	Checked By	Date	Contract Ref:
G. Rushton	02/07/15	J McCarthy	02/07/15	762850

Contract: **NOMA Plot L Manchester**

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL02A	1	50	2		1.81	0.50 to 1.70	120 secs	1020	1020	0.0	DRY	1.5	0.0	19.2	0.0	0.0	0.0
BHL02A	1	50	2		1.81	0.50 to 1.70	180 secs	1020	1020	0.0	DRY	1.5	0.0	19.1	0.0	0.0	0.0
BHL02A	1	50	2		1.81	0.50 to 1.70	240 secs	1020	1020	0.0	DRY	1.5	0.0	19.2	0.0	0.0	0.0
BHL02A	1	50	2		1.81	0.50 to 1.70	300 secs	1020	1020	0.0	DRY	1.5	0.0	19.3	0.0	0.0	0.0
BHL02A	1	50	3	1.70	1.68	0.50 to 1.70	25/10/2013 16:10:00	992	992	0.0	DRY	0.1	0.0	20.8	0.0	0.0	0.0
BHL02A	1	50	3		1.68	0.50 to 1.70	15 secs	992	992	0.0	DRY	1.3	0.0	19.4	0.0	0.0	0.0
BHL02A	1	50	3		1.68	0.50 to 1.70	30 secs	992	992	0.0	DRY	1.2	0.0	19.8	0.0	0.0	0.0
BHL02A	1	50	3		1.68	0.50 to 1.70	60 secs	992	992	0.0	DRY	0.6	0.0	20.2	0.0	0.0	0.0
BHL02A	1	50	3		1.68	0.50 to 1.70	90 secs	992	992	0.0	DRY	0.3	0.0	20.4	0.0	0.0	0.0
BHL02A	1	50	3		1.68	0.50 to 1.70	120 secs	992	992	0.0	DRY	0.8	0.0	20.2	0.0	0.0	0.0
BHL02A	1	50	3		1.68	0.50 to 1.70	180 secs	992	992	0.0	DRY	1.2	0.0	20.2	0.0	0.0	0.0
BHL02A	1	50	3		1.68	0.50 to 1.70	240 secs	992	992	0.0	DRY	0.8	0.0	20.2	0.0	0.0	0.0
BHL02A	1	50	3		1.68	0.50 to 1.70	300 secs	992	992	0.0	DRY	1.0	0.0	20.3	0.0	0.0	0.0
BHL02A	2	50	3	29.50	29.82	20.00 to 29.50	25/10/2013 16:20:00	992	992	0.0	22.79	0.1	0.0	20.8	0.0	0.0	0.0
BHL02A	2	50	3		29.82	20.00 to 29.50	15 secs	992	992	0.0	22.79	2.1	0.0	19.9	0.0	0.0	0.0
BHL02A	2	50	3		29.82	20.00 to 29.50	30 secs	992	992	0.0	22.79	2.2	0.0	19.4	0.0	0.0	0.0
BHL02A	2	50	3		29.82	20.00 to 29.50	60 secs	992	992	0.0	22.79	2.2	0.0	19.4	0.0	0.0	0.0
BHL02A	2	50	3		29.82	20.00 to 29.50	90 secs	992	992	0.0	22.79	2.2	0.0	19.4	0.0	0.0	0.0
BHL02A	2	50	3		29.82	20.00 to 29.50	120 secs	992	992	0.0	22.79	2.2	0.0	19.5	0.0	0.0	0.0
BHL02A	2	50	3		29.82	20.00 to 29.50	180 secs	992	992	0.0	22.79	2.2	0.0	19.5	0.0	0.0	0.0
BHL02A	2	50	3		29.82	20.00 to 29.50	240 secs	992	992	0.0	22.79	2.2	0.0	19.5	0.0	0.0	0.0
BHL02A	2	50	3		29.82	20.00 to 29.50	300 secs	992	992	0.0	22.79	2.2	0.0	19.6	0.0	0.0	0.0
BHL02A	1	50	4	1.70	1.80	0.50 to 1.70	05/11/2013 12:00:00	982	982	0.0	DRY	0.1	0.1	20.7	-	0.0	0.0
BHL02A	1	50	4		1.80	0.50 to 1.70	15 secs	982	982	0.0	DRY	2.0	0.1	20.2	-	0.0	0.0
BHL02A	1	50	4		1.80	0.50 to 1.70	30 secs	982	982	0.0	DRY	2.0	0.1	19.4	-	0.0	0.0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL02A	1	50	4		1.80	0.50 to 1.70	60 secs	982	982	0.0	DRY	2.0	0.1	19.2	-	0.0	0.0
BHL02A	1	50	4		1.80	0.50 to 1.70	90 secs	982	982	0.0	DRY	2.0	0.1	19.2	-	0.0	0.0
BHL02A	1	50	4		1.80	0.50 to 1.70	120 secs	982	982	0.0	DRY	2.0	0.1	19.2	-	0.0	0.0
BHL02A	1	50	4		1.80	0.50 to 1.70	180 secs	982	982	0.0	DRY	2.0	0.1	19.2	-	0.0	0.0
BHL02A	1	50	4		1.80	0.50 to 1.70	240 secs	982	982	0.0	DRY	2.0	0.1	19.2	-	0.0	0.0
BHL02A	1	50	4		1.80	0.50 to 1.70	300 secs	982	982	0.0	DRY	2.0	0.1	19.2	-	0.0	0.0
BHL02A	2	50	4	29.50	30.01	20.00 to 29.50	05/11/2013 13:00:00	982	982	0.0	22.93	0.1	0.1	20.7	-	0.0	0.0
BHL02A	2	50	4		30.01	20.00 to 29.50	15 secs	982	982	0.0	22.93	3.0	0.1	19.8	-	0.0	0.0
BHL02A	2	50	4		30.01	20.00 to 29.50	30 secs	982	982	0.0	22.93	3.7	0.1	18.7	-	0.0	0.0
BHL02A	2	50	4		30.01	20.00 to 29.50	60 secs	982	982	0.0	22.93	3.1	0.1	18.5	-	0.0	0.0
BHL02A	2	50	4		30.01	20.00 to 29.50	90 secs	982	982	0.0	22.93	3.1	0.1	18.4	-	0.0	0.0
BHL02A	2	50	4		30.01	20.00 to 29.50	120 secs	982	982	0.0	22.93	3.1	0.1	18.4	-	0.0	0.0
BHL02A	2	50	4		30.01	20.00 to 29.50	180 secs	982	982	0.0	22.93	3.1	0.1	18.4	-	0.0	0.0
BHL02A	2	50	4		30.01	20.00 to 29.50	240 secs	982	982	0.0	22.93	3.1	0.1	18.5	-	0.0	0.0
BHL02A	2	50	4		30.01	20.00 to 29.50	300 secs	982	982	0.0	22.93	3.1	0.1	18.5	-	0.0	0.0
BHL02A	1	50	5	1.70	1.82	0.50 to 1.70	20/11/2013 09:00:00	994	994	0.0	DRY	0.0	0.0	20.9	0.0	0.0	0.0
BHL02A	1	50	5		1.82	0.50 to 1.70	15 secs	994	994	0.0	DRY	2.4	0.0	20.0	0.0	0.0	0.0
BHL02A	1	50	5		1.82	0.50 to 1.70	30 secs	994	994	0.0	DRY	2.4	0.0	19.6	0.0	0.0	0.0
BHL02A	1	50	5		1.82	0.50 to 1.70	60 secs	994	994	0.0	DRY	2.4	0.0	19.6	0.0	0.0	0.0
BHL02A	1	50	5		1.82	0.50 to 1.70	90 secs	994	994	0.0	DRY	2.4	0.0	19.6	0.0	0.0	0.0
BHL02A	1	50	5		1.82	0.50 to 1.70	120 secs	994	994	0.0	DRY	2.4	0.0	19.6	0.0	0.0	0.0
BHL02A	1	50	5		1.82	0.50 to 1.70	180 secs	994	994	0.0	DRY	2.4	0.0	19.6	0.0	0.0	0.0
BHL02A	1	50	5		1.82	0.50 to 1.70	240 secs	994	994	0.0	DRY	2.3	0.0	19.7	0.0	0.0	0.0
BHL02A	1	50	5		1.82	0.50 to 1.70	300 secs	994	994	0.0	DRY	2.3	0.0	19.8	0.0	0.0	0.0
BHL02A	2	50	5	29.50	30.03	20.00 to 29.50	20/11/2013 09:10:00	994	994	0.0	22.91	0.0	0.0	20.9	0.0	0.0	0.0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL02A	2	50	5		30.03	20.00 to 29.50	15 secs	994	994	0.0	22.91	3.2	0.0	19.9	0.0	0.0	0.0
BHL02A	2	50	5		30.03	20.00 to 29.50	30 secs	994	994	0.0	22.91	3.2	0.0	19.2	0.0	0.0	0.0
BHL02A	2	50	5		30.03	20.00 to 29.50	60 secs	994	994	0.0	22.91	3.3	0.0	19.2	0.0	0.0	0.0
BHL02A	2	50	5		30.03	20.00 to 29.50	90 secs	994	994	0.0	22.91	3.3	0.0	19.2	0.0	0.0	0.0
BHL02A	2	50	5		30.03	20.00 to 29.50	120 secs	994	994	0.0	22.91	3.3	0.0	19.2	0.0	0.0	0.0
BHL02A	2	50	5		30.03	20.00 to 29.50	180 secs	994	994	0.0	22.91	3.3	0.0	19.3	0.0	0.0	0.0
BHL02A	2	50	5		30.03	20.00 to 29.50	240 secs	994	994	0.0	22.91	3.3	0.0	19.2	0.0	0.0	0.0
BHL02A	2	50	5		30.03	20.00 to 29.50	300 secs	994	994	0.0	22.91	3.3	0.0	19.2	0.0	0.0	0.0
BHL02A	2	50	6	29.50	30.01	20.00 to 29.50	25/11/2013 09:20:00	1033	1033	0.0	23.28	0.2	0.0	20.9	0.0	0.0	0.0
BHL02A	2	50	6		30.01	20.00 to 29.50	15 secs	1033	1033	0.0	23.28	0.2	0.0	20.9	0.0	0.0	0.0
BHL02A	2	50	6		30.01	20.00 to 29.50	30 secs	1033	1033	0.0	23.28	0.2	0.0	21.0	0.0	0.0	0.0
BHL02A	2	50	6		30.01	20.00 to 29.50	60 secs	1033	1033	0.0	23.28	0.2	0.0	20.9	0.0	0.0	0.0
BHL02A	2	50	6		30.01	20.00 to 29.50	90 secs	1033	1033	0.0	23.28	0.2	0.0	20.9	0.0	0.0	0.0
BHL02A	2	50	6		30.01	20.00 to 29.50	120 secs	1033	1033	0.0	23.28	0.2	0.0	20.9	0.0	0.0	0.0
BHL02A	2	50	6		30.01	20.00 to 29.50	180 secs	1033	1033	0.0	23.28	0.2	0.0	20.8	0.0	0.0	0.0
BHL02A	2	50	6		30.01	20.00 to 29.50	240 secs	1033	1033	0.0	23.28	0.2	0.0	20.9	0.0	0.0	0.0
BHL02A	2	50	6		30.01	20.00 to 29.50	300 secs	1033	1033	0.0	23.28	0.2	0.0	20.9	0.0	0.0	0.0
BHL02A	1	50	6	1.70	1.81	0.50 to 1.70	25/11/2013 09:30:00	1033	1033	0.0	DRY	0.2	0.0	20.8	0.0	0.0	0.0
BHL02A	1	50	6		1.81	0.50 to 1.70	15 secs	1033	1033	0.0	DRY	1.0	0.0	20.8	0.0	0.0	0.0
BHL02A	1	50	6		1.81	0.50 to 1.70	30 secs	1033	1033	0.0	DRY	1.0	0.0	20.7	0.0	0.0	0.0
BHL02A	1	50	6		1.81	0.50 to 1.70	60 secs	1033	1033	0.0	DRY	1.0	0.0	20.8	0.0	0.0	0.0
BHL02A	1	50	6		1.81	0.50 to 1.70	90 secs	1033	1033	0.0	DRY	1.0	0.0	20.6	0.0	0.0	0.0
BHL02A	1	50	6		1.81	0.50 to 1.70	120 secs	1033	1033	0.0	DRY	1.0	0.0	20.6	0.0	0.0	0.0
BHL02A	1	50	6		1.81	0.50 to 1.70	180 secs	1033	1033	0.0	DRY	1.0	0.0	20.6	0.0	0.0	0.0
BHL02A	1	50	6		1.81	0.50 to 1.70	240 secs	1033	1033	0.0	DRY	1.0	0.0	20.6	0.0	0.0	0.0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL02A	1	50	6		1.81	0.50 to 1.70	300 secs	1033	1033	0.0	DRY	1.0	0.0	20.6	0.0	0.0	0.0
BHL03	2	50	1	16.00	15.76	6.00 to 16.00	20/09/2013 09:30:00	1010	1010	0.0	DRY	0.0	0.0	20.7	0.0	0.0	0.0
BHL03	2	50	1		15.76	6.00 to 16.00	15 secs	1010	1010	0.0	DRY	0.0	0.1	20.7	1.0	0.0	0.0
BHL03	2	50	1		15.76	6.00 to 16.00	30 secs	1010	1010	0.0	DRY	0.0	0.1	20.7	1.0	0.0	0.0
BHL03	2	50	1		15.76	6.00 to 16.00	60 secs	1010	1010	0.0	DRY	0.0	0.1	20.6	1.0	0.0	0.0
BHL03	2	50	1		15.76	6.00 to 16.00	90 secs	1010	1010	0.0	DRY	0.0	0.1	20.6	1.0	0.0	0.0
BHL03	2	50	1		15.76	6.00 to 16.00	120 secs	1010	1010	0.0	DRY	0.0	0.1	20.6	1.0	0.0	0.0
BHL03	2	50	1		15.76	6.00 to 16.00	180 secs	1010	1010	0.0	DRY	0.0	0.1	20.6	1.0	0.0	0.0
BHL03	2	50	1		15.76	6.00 to 16.00	240 secs	1010	1010	0.0	DRY	0.0	0.1	20.6	1.0	0.0	0.0
BHL03	2	50	1		15.76	6.00 to 16.00	300 secs	1010	1010	0.0	DRY	0.0	0.1	20.6	1.0	0.0	0.0
BHL03	1	50	1	3.40	3.39	1.00 to 3.40	20/09/2013 09:40:00	1010	1010	0.0	DRY	0.0	0.0	20.6	0.0	0.0	0.0
BHL03	1	50	1		3.39	1.00 to 3.40	15 secs	1010	1010	0.0	DRY	0.0	0.0	20.5	0.0	0.0	0.0
BHL03	1	50	1		3.39	1.00 to 3.40	30 secs	1010	1010	0.0	DRY	0.0	0.0	20.4	0.0	0.0	0.0
BHL03	1	50	1		3.39	1.00 to 3.40	60 secs	1010	1010	0.0	DRY	0.4	0.0	19.9	0.0	0.0	0.0
BHL03	1	50	1		3.39	1.00 to 3.40	90 secs	1010	1010	0.0	DRY	0.9	0.0	19.0	0.0	0.0	0.0
BHL03	1	50	1		3.39	1.00 to 3.40	120 secs	1010	1010	0.0	DRY	1.5	0.0	17.6	0.0	0.0	0.0
BHL03	1	50	1		3.39	1.00 to 3.40	180 secs	1010	1010	0.0	DRY	1.8	0.0	16.7	0.0	0.0	0.0
BHL03	1	50	1		3.39	1.00 to 3.40	240 secs	1010	1010	0.0	DRY	1.9	0.0	16.7	0.0	0.0	0.0
BHL03	1	50	1		3.39	1.00 to 3.40	300 secs	1010	1010	0.0	DRY	1.9	0.0	16.8	0.0	0.0	0.0
BHL03	2	50	2	16.00	15.70	6.00 to 16.00	09/10/2013 11:01:00	1016	1016	$0.6_{(I)}$	DRY	0.1	0.0	20.7	0.0	0.0	0.0
BHL03	2	50	2		15.70	6.00 to 16.00	15 secs	1016	1016	$0.6_{(I)}$	DRY	1.9	0.0	18.5	0.0	0.0	0.0
BHL03	2	50	2		15.70	6.00 to 16.00	30 secs	1016	1016	$0.6_{(I)}$	DRY	1.9	0.0	17.4	0.0	0.0	0.0
BHL03	2	50	2		15.70	6.00 to 16.00	60 secs	1016	1016	$0.6_{(I)}$	DRY	1.9	0.1	17.4	0.0	0.0	0.0
BHL03	2	50	2		15.70	6.00 to 16.00	90 secs	1016	1016	$0.6_{(I)}$	DRY	1.9	0.0	17.5	0.0	0.0	0.0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By	Date	Checked By	Date	Contract Ref:
G. Rushton	02/07/15	J McCarthy	02/07/15	762850

Contract: **NOMA Plot L Manchester**

AGS

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL03	2	50	2		15.70	6.00 to 16.00	120 secs	1016	1016	$0.6_{(I)}$	DRY	1.9	0.0	17.6	0.0	0.0	0.0
BHL03	2	50	2		15.70	6.00 to 16.00	180 secs	1016	1016	$0.6_{(I)}$	DRY	1.9	0.0	17.5	0.0	0.0	0.0
BHL03	2	50	2		15.70	6.00 to 16.00	240 secs	1016	1016	$0.6_{(I)}$	DRY	1.9	0.0	17.4	0.0	0.0	0.0
BHL03	2	50	2		15.70	6.00 to 16.00	300 secs	1016	1016	$0.6_{(I)}$	DRY	2.0	0.0	17.5	0.0	0.0	0.0
BHL03	1	50	2	3.40	3.40	1.00 to 3.40	09/10/2013 11:08:00	1016	1016	$0.2_{(I)}$	DRY	0.1	0.0	20.8	0.0	0.0	0.0
BHL03	1	50	2		3.40	1.00 to 3.40	15 secs	1016	1016	$0.2_{(I)}$	DRY	3.1	0.0	18.1	0.0	0.0	0.0
BHL03	1	50	2		3.40	1.00 to 3.40	30 secs	1016	1016	$0.2_{(I)}$	DRY	3.1	0.0	17.3	0.0	0.0	0.0
BHL03	1	50	2		3.40	1.00 to 3.40	60 secs	1016	1016	$0.2_{(I)}$	DRY	3.1	0.1	17.2	1.0	0.0	0.0
BHL03	1	50	2		3.40	1.00 to 3.40	90 secs	1016	1016	$0.2_{(I)}$	DRY	3.1	0.1	17.2	1.0	0.0	0.0
BHL03	1	50	2		3.40	1.00 to 3.40	120 secs	1016	1016	$0.2_{(I)}$	DRY	3.1	0.1	17.4	1.0	0.0	0.0
BHL03	1	50	2		3.40	1.00 to 3.40	180 secs	1016	1016	$0.2_{(I)}$	DRY	3.0	0.0	17.5	0.0	0.0	0.0
BHL03	1	50	2		3.40	1.00 to 3.40	240 secs	1016	1016	$0.2_{(I)}$	DRY	2.9	0.0	17.7	0.0	0.0	0.0
BHL03	1	50	2		3.40	1.00 to 3.40	300 secs	1016	1016	$0.2_{(I)}$	DRY	2.8	0.0	17.8	0.0	0.0	0.0
BHL03	2	50	3	16.00	15.53	6.00 to 16.00	25/10/2013 16:30:00	991	992	$2.3_{(I)}$	14.42	0.0	0.0	20.8	0.0	0.0	0.0
BHL03	2	50	3		15.53	6.00 to 16.00	15 secs	991	992	$2.3_{(I)}$	14.42	2.3	0.0	19.8	0.0	0.0	0.0
BHL03	2	50	3		15.53	6.00 to 16.00	30 secs	991	992	$2.3_{(I)}$	14.42	2.3	0.0	19.8	0.0	0.0	0.0
BHL03	2	50	3		15.53	6.00 to 16.00	60 secs	991	992	$2.3_{(I)}$	14.42	2.3	0.0	19.9	0.0	0.0	0.0
BHL03	2	50	3		15.53	6.00 to 16.00	90 secs	991	992	$2.3_{(I)}$	14.42	2.3	0.0	18.9	0.0	0.0	0.0
BHL03	2	50	3		15.53	6.00 to 16.00	120 secs	991	992	$2.3_{(I)}$	14.42	2.2	0.0	18.9	0.0	0.0	0.0
BHL03	2	50	3		15.53	6.00 to 16.00	180 secs	991	992	$2.3_{(I)}$	14.42	2.2	0.0	18.9	0.0	0.0	0.0
BHL03	2	50	3		15.53	6.00 to 16.00	240 secs	991	992	$2.3_{(I)}$	14.42	2.2	0.0	18.9	0.0	0.0	0.0
BHL03	2	50	3		15.53	6.00 to 16.00	300 secs	991	992	$2.3_{(I)}$	14.42	2.2	0.0	18.9	0.0	0.0	0.0
BHL03	1	50	3	3.40	3.22	1.00 to 3.40	25/10/2013 16:40:00	-	992	$0.0_{(I)}$	DRY	0.1	0.0	20.8	0.0	0.0	0.0
BHL03	1	50	3		3.22	1.00 to 3.40	15 secs	-	992	$0.0_{(I)}$	DRY	2.5	0.0	18.3	0.0	0.0	0.0
BHL03	1	50	3		3.22	1.00 to 3.40	30 secs	-	992	$0.0_{(I)}$	DRY	2.5	0.0	18.0	0.0	0.0	0.0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BHL03	1	50	3		3.22	1.00 to 3.40	60 secs	-	992	$0.0_{(I)}$	DRY	2.5	0.0	18.0	0.0	0.0	0.0
BHL03	1	50	3		3.22	1.00 to 3.40	90 secs	-	992	$0.0_{(I)}$	DRY	2.6	0.0	18.0	0.0	0.0	0.0
BHL03	1	50	3		3.22	1.00 to 3.40	120 secs	-	992	$0.0_{(I)}$	DRY	2.6	0.0	18.1	0.0	0.0	0.0
BHL03	1	50	3		3.22	1.00 to 3.40	180 secs	-	992	$0.0_{(I)}$	DRY	2.6	0.0	18.1	0.0	0.0	0.0
BHL03	1	50	3		3.22	1.00 to 3.40	240 secs	-	992	$0.0_{(I)}$	DRY	2.6	0.0	18.1	0.0	0.0	0.0
BHL03	1	50	3		3.22	1.00 to 3.40	300 secs	-	992	$0.0_{(I)}$	DRY	2.6	0.0	18.1	0.0	0.0	0.0
BHL03	1	50	4	3.40	3.38	1.00 to 3.40	05/11/2013 10:00:00	981	982	$0.0_{(I)}$	DRY	0.1	0.1	20.7	-	0.0	0.0
BHL03	1	50	4		3.38	1.00 to 3.40	15 secs	981	982	$0.0_{(I)}$	DRY	2.7	0.1	19.8	-	0.0	0.0
BHL03	1	50	4		3.38	1.00 to 3.40	30 secs	981	982	$0.0_{(I)}$	DRY	2.8	0.1	18.5	-	0.0	0.0
BHL03	1	50	4		3.38	1.00 to 3.40	60 secs	981	982	$0.0_{(I)}$	DRY	2.8	0.1	18.1	-	0.0	0.0
BHL03	1	50	4		3.38	1.00 to 3.40	90 secs	981	982	$0.0_{(I)}$	DRY	2.8	0.1	18.1	-	0.0	0.0
BHL03	1	50	4		3.38	1.00 to 3.40	120 secs	981	982	$0.0_{(I)}$	DRY	2.8	0.1	18.1	-	0.0	0.0
BHL03	1	50	4		3.38	1.00 to 3.40	180 secs	981	982	$0.0_{(I)}$	DRY	2.9	0.1	18.1	-	0.0	0.0
BHL03	1	50	4		3.38	1.00 to 3.40	240 secs	981	982	$0.0_{(I)}$	DRY	2.9	0.1	18.1	-	0.0	0.0
BHL03	1	50	4		3.38	1.00 to 3.40	300 secs	981	982	$0.0_{(I)}$	DRY	2.9	0.1	18.1	-	0.0	0.0
BHL03	1	50	4		15.22	1.00 to 3.40	3600 secs	981	982	$0.0_{(I)}$	DRY	0.1	0.1	20.7	-	0.0	0.0
BHL03	1	50	4		15.22	1.00 to 3.40	15 secs	981	982	$0.0_{(I)}$	DRY	0.1	0.1	19.6	-	0.0	0.0
BHL03	1	50	4		15.22	1.00 to 3.40	30 secs	981	982	$0.0_{(I)}$	DRY	0.1	0.1	18.6	-	0.0	0.0
BHL03	1	50	4		15.22	1.00 to 3.40	60 secs	981	982	$0.0_{(I)}$	DRY	0.1	0.1	18.4	-	0.0	0.0
BHL03	1	50	4		15.22	1.00 to 3.40	90 secs	981	982	$0.0_{(I)}$	DRY	0.2	0.1	18.3	-	0.0	0.0
BHL03	1	50	4		15.22	1.00 to 3.40	120 secs	981	982	$0.0_{(I)}$	DRY	0.2	0.1	18.3	-	0.0	0.0
BHL03	1	50	4		15.22	1.00 to 3.40	180 secs	981	982	$0.0_{(I)}$	DRY	0.3	0.1	18.3	-	0.0	0.0
BHL03	1	50	4		15.22	1.00 to 3.40	240 secs	981	982	$0.0_{(I)}$	DRY	0.4	0.1	18.3	-	0.0	0.0
BHL03	1	50	4		15.22	1.00 to 3.40	300 secs	981	982	$0.0_{(I)}$	DRY	0.5	0.1	18.3	-	0.0	0.0

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STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By	Date	Checked By	Date	Contract Ref:
G. Rushton	02/07/15	J McCarthy	02/07/15	762850

Contract: **NOMA Plot L Manchester**

IN-SITU WATER MONITORING RESULTS

	Weather	Ground Conditions	Wind Conditions	Air Temperature (°C)	Equipment Used & Remarks
Round 7	Dry mild	-	-	-	
Round 8	Dry mild	-	-	-	GFM400 SN-10131
Round 10	-	-	-	-	

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	Remarks
BHL01	1	50	7 / 1	2.00	2.05	1.00 to 2.00	11/02/2015 10:30	DRY	
BHL01	2	50	7 / 1	29.50	30.00	18.00 to 29.50	11/02/2015 10:31	19.30	
BHL01	2	50	8 / 1	29.50	30.45	18.00 to 29.50	18/03/2015 05:59	19.33	
BHL01	1	50	8 / 1	2.00	2.05	1.00 to 2.00	18/03/2015 05:59	1.99	
BHL01	1	50	10 / 1	2.00	2.20	1.00 to 2.00	17/06/2015 07:30	2.00	
BHL01	2	50	10 / 1	29.50	30.15	18.00 to 29.50	17/06/2015 07:30	19.27	

Key: NDA denotes 'no data available'.

STRUCTURAL SOILS
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Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By	Date	Checked By	Date	Contract Ref:
G. Rushton	02/07/15	J McCarthy	02/07/15	762850

Contract: **NOMA Plot L Manchester**

APPENDIX E

(i) Unexploded Ordnance Report

DYNASAFE

BACTEC

BACTEC International Limited
9 Waterside Court, Galleon Boulevard
Crossways Business Park, Dartford, Kent
DA2 6NX, United Kingdom
Tel: +44 (0)1322 284550
Fax: +44 (0)1322 628150
E-mail: bactec.int@bactec.com
www.bactec.com

L5870KS01

10.02.2015

Gemma Rushton
Structural Soils Ltd
The Potteries, Pottery Street,
Castleford
West Yorkshire
WF10 1NJ

Dear Ms. Gemma Rushton

EXPLOSIVE ORDNANCE DISPOSAL (EOD) SERVICES
Angel Square, Manchester

We are writing to confirm and to place on record our attendance at the above mentioned site on 26th January 2015 – 28th January 2015 to provide Explosive Ordnance Disposal Engineer support to site investigation works. We confirm that no items of ordnance were discovered during these works.

Our Engineer also carried out Ordnance Awareness and Safety Briefings to site personnel and a copy of each briefing register is attached.

We remain at your disposal for any future EOD support at this or any other Structural Soils Ltd. sites.

Yours sincerely

Jimmy Heald
Project Manager
BACTEC International Limited

Enc. Briefing Register

Registered in England No. 2601923. VAT Registration No. GB 573 6627 13.
Registered Office: 9 Waterside Court, Galleon Boulevard, Crossways Business Park, Dartford, Kent, DA2 6NX, United Kingdom.

BACTEC International Ltd
37 Riverside, Sir Thomas Longley Road
Rochester, Kent ME2 4DP
Tel: 01634 296757 Fax : 01634 296779

Form ref: **7-G**
Version 7-G.3

ORDNANCE AWARENESS AND SAFETY BRIEFING ATTENDANCE REGISTER

Client Structural Soils LTD	**Site** Angel Square Co op Car Park	**INO** 5870

This is to certify that the following persons have attended the BACTEC Ordnance Awareness and Safety Briefing for above mentioned site

DATE	NAME	SIGNATURE	AFFILIATION (COMPANY)
26/01/15	ALAN SLATER	A Slater	KAILL PLANT
26/01/15	Gemma Rushton	GR	Structural Soils

Rule out after last name!!

Briefing by :	Jaymie Horst

Copy left with (name) :	
Signed :	