P/2015/00875

Received 10/06/15

ENVIRONMENTAL

EAST STAFFORDSHIRE BOROUGH COUNCIL
THE DOVE WAY (AREAS A & B)
UTTOXETER

PHASE 2 GEO-ENVIRONMENTAL FACTUAL REPORT

Integrated Engineering and Environmental Consultants

environmental | water | transportation | civil | structural | highways | infrastructure

BWB CONSULTING

ENVIRONMENTAL

EAST STAFFORDSHIRE BOROUGH COUNCIL
THE DOVE WAY (AREAS A & B)
UTTOXETER

PHASE 2 GEO-ENVIRONMENTAL FACTUAL REPORT

BWB Consulting Limited
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY

T – 0115 924 1100
F – 0115 950 39 66
E – environmental@bwb-consulting.com

Date: August 2010

AUTHOR:	Richard Robinson BSc (Hons)
CHECKED:	Simon Steele MEng (Hons)
APPROVED:	Iain Norris MEng
REPORT REF NO:	NTE285/03/V1
STATUS:	FINAL

Document Revision Status

Issue	Date	Comments
Version 1	August 2010	Final

CONTENTS PAGE

TABLES

FIGURES

APPENDICES

1.0 INTRODUCTION

Instruction

1.1 BWB Consulting (BWB) was instructed by Paul Shanley on behalf of East Staffordshire Borough Council (the Client) to carry out a Phase 2 Factual Report at the site at The Dove Way (Areas A & B), Uttoxeter, Staffordshire. Details of the project brief are included in BWB proposal reference IDN/RC/NTE285 R1 dated January 2010.

Limitations

1.2 The assessments and interpretation have been made in line with legislation and guidelines in force at the time of writing, representing best practice at that time.

1.3 All of the comments and opinions contained in this report, including any conclusions, are based on the information obtained by BWB during our investigations.

1.4 There may be other conditions prevailing on the site which have not been disclosed by this investigation and which have not been taken into account by this report. Responsibility cannot be accepted for conditions not revealed by the investigation.

1.5 Any diagram or opinion of the possible configuration of the findings is conjectural and given for guidance only and confirmation of intermediate ground conditions should be considered if deemed necessary.

1.6 Except as otherwise requested by the Client, BWB is not obliged and disclaims any obligation to update the report for events taking place after:

a) the date on which this assessment was undertaken; and
b) the date on which the final report is delivered.

1.7 BWB makes no representation whatsoever concerning the legal significance of its findings or to other legal matters referred to in the following report.

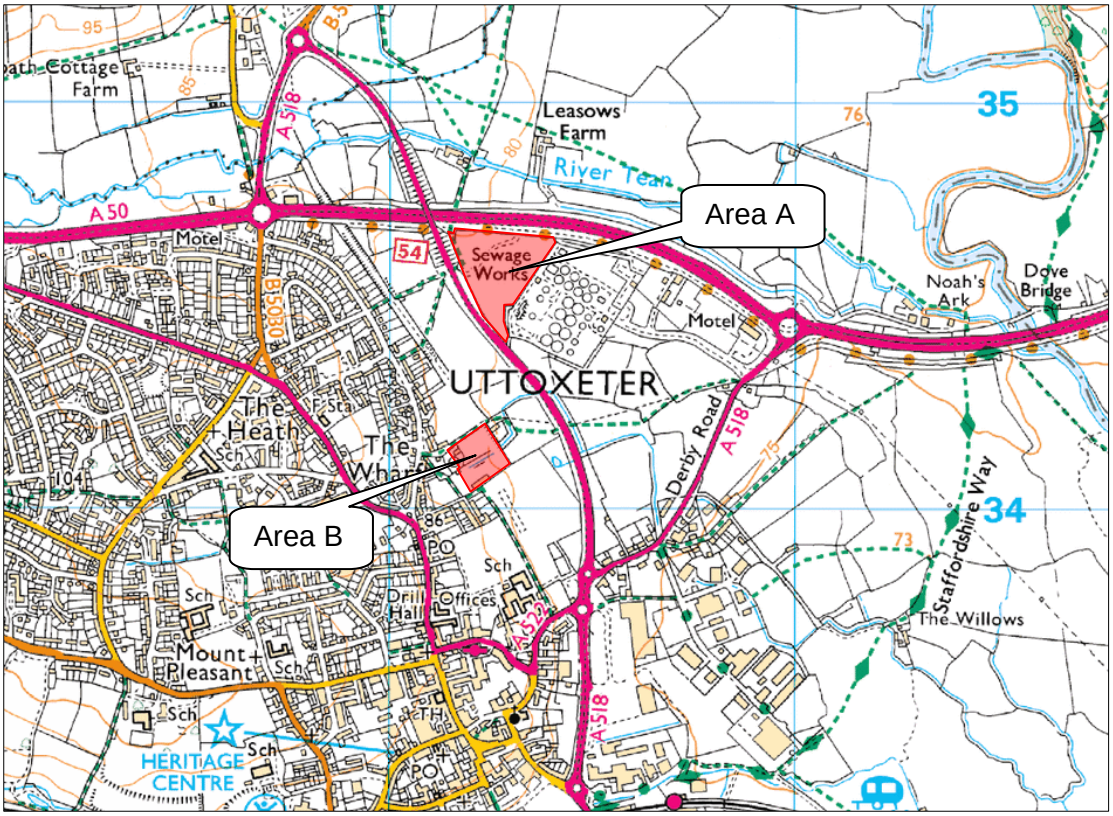
1.8 This report has been prepared for the sole use of East Staffordshire Borough Council. No other third parties may rely upon or reproduce the contents of this report without the written permission of BWB. If any unauthorised third party comes into possession of this report they rely on it at their own risk and the authors do not owe them any Duty of Care or Skill.

2.0 SITE SETTING

Site Location

2.1 The site is located on the north eastern edge of Uttoxeter conurbation approximately 1km north of the town centre. The site is split into two sections situated adjacent/close to The Dove Way; an arterial relief road carrying traffic north east of Uttoxeter. The two parcels of land one to north and one to the south west are approximately centred at national grid references 409280, 334490 and 409230, 334120 respectively. The location of the site is shown in **Figure 1**.

Figure 1 - Site Location Plan



Site Description

2.2 The site comprises two parcels of land which are approximately triangular and square in shape respectively. These two sections of land comprise part of a wider proposed development area which connects the two parcels of the site. For the purpose of this assessment the site areas will be referred to throughout this report as follows:

- Area A – The Triangular parcel of land which is currently undeveloped open ground and forms the northern part of the site;
- Area B – A square parcel of land comprising predominantly industrial/commercial use situated in the south eastern area of the proposed development scheme; and

- Area C – Two parcels of land either side of The Dove Way which connect Area A and Area B. This parcel of land is assessed in the BWB report ref: NTE285/02/V1 dated July 2010.

2.3 A representative of BWB undertook a site reconnaissance visit on 24th June 2010. The layout of the site with the main features is presented as **Figure 2**. Photographs from the site visit are presented in **Appendix 1**.

Area A

2.4 Area A comprises overgrown open land with vegetation including long grass, thistles, nettles and shrubs. The vegetation tentatively identified included small areas of Japanese Knotweed. However, it should be noted that BWB is not a specialised ecologist and it is therefore recommended that a specialist ecologist is commissioned to undertake a survey.

2.5 The site boundaries comprise fencing and mature shrubs with access to the site available under a bridge on a public footpath on the western boundary of the site, or through a gate (which was padlocked at the time of the visit) on the south western boundary of the site; only the former is suitable for vehicular access.

2.6 A small footpath runs through the vegetation within the site boundary roughly parallel to the western site boundary. A circular footpath is also present running roughly parallel to the site boundaries in the northern two thirds of the site.

2.7 The site lies at approximately 80m above ordnance datum (AOD) and is approximately flat. However there is a small drop in elevation of around 1.5m in the north western area of the site and a small mound of approximately 2.0m in height is present close to the south eastern boundary of the site. The site slopes away steeply at the southern edge of the site with a drop of approximately 3.0m.

2.8 Beyond the boundaries of the site The Dove Way forms the western site boundary. The road and the site are at approximately the same elevation at the southern end of the site with the road rising to approximately 10.0m above the site towards the northern edge of the site where the site and road are separated by a steep vegetated slope. Beyond The Dove Way to the west is pasture and park land. To the north of the site is the A50 dual carriageway with farmland beyond. To the south east of the site is a large sewage treatment works.

Area B

2.9 This parcel of the site comprises a waste recycling facility and a small industrial estate dissected by a stream running within a small valley. The site lies at approximately 80m AOD and falls in height by approximately 3m from the western boundary to the eastern boundary. The northern area is roughly flat which indicates that significant quantities of made ground may be present. The southern area slopes steadily away towards the east with a fall of approximately 3m.

2.10 The north eastern section of Area B is occupied by the waste recycling facility. No access was available to the facility on the day of the visit although an inspection was undertaken from the perimeter and photographs taken. The recycling facility comprised predominantly asphalt hardstand with a small grass verge around the site perimeter. The site boundary was formed by approximately 2.5m high palisade

fencing with access provided on the northern side of the site. Bushes indicative of Japanese Knotweed (an invasive plant species) were tentatively identified adjacent to the entrance to the site. A small cabin was situated in the northern area with the main waste disposal area situated centrally. Large waste disposal skips in this area included garden waste, non recyclable household waste, small appliances, non recyclable bulky waste items, cardboard, chipboard and wood and timber. Smaller recycling bank bins in this area comprised paper, books, cloths and textiles, glass, printer ink and cartons. Further waste disposal skips and bins were present along the eastern boundary of the site including hard core and rubble and large kitchen appliances as well as used cooking oil and waste oil tanks. The waste oil tank comprised steel above ground storage tank (AST) of approximately 3,000l in capacity and was positioned within a small steel bund. There were no obvious signs of spillages or leaks from the viewing position. The recycling facility was considered to be well kept and in a tidy condition with no visual signs of impact or odours.

2.11 The southern section of Area B is occupied by Hawksworth (Graphics, Prints and Signs) and Dovebank Motors. The site comprises predominantly asphalt hard stand and vegetation in the eastern area with a small industrial unit in the southern area and small toilet block in the central area. Both the unit and toilet block are of single storey brick construction with corrugated cement (possibly asbestos containing) roof. Hawkeworth occupied approximately the western two thirds of the unit with Dovebank Motors present in the eastern third.

2.12 Adjacent to the unit in the Dovebank Motors area was an AST possibly used as a waste oil tank. The tank was of self bunded double skin plastic construction and approximately 2,000l in capacity. No visual or olfactory evidence of contamination was observed within the vicinity of the AST. Adjacent to the AST was a bin for waste oil filters, an empty antifreeze barrel, an old vehicle radiator and a rear axle of a car. A surface water drain was located adjacent to this area with surface staining indicating that contaminants have been washed into the drain. Two ASTs were noted further to the east of the unit which were indicated to be no longer in use. The smaller of the two ASTs was considered to be approximately 1,200l in capacity was of steel construction positioned on breeze block stilts; this AST did not have a bund. The larger AST was considered to be approximately 10,000l in capacity and also of steel construction the tank was situated within a bund with concrete base and brick walls with no product present in the bottom. This tank was housed within a small timber shack with corrugated sheet cement (possibly asbestos containing) sides and roof. No visual or olfactory evidence of contamination was noted in the vicinity of these two ASTs.

2.13 The western section of the small industrial estate was overgrown with grass, nettles, thistles and other vegetation including a raised bank indicating potential made ground. Numerous tyres were present in this area and were laid out in a manner which indicated the area was formerly used as a go-kart track. A metal storage drum circa 350l capacity was present in this area which was indicated to have been used to burn waste. Grey ash and burnt items including the remains of aerosol cans and batteries were noted on the ground surrounding the drum. Two large steel storage containers were also situated within this area.

2.14 A small brook flows through from west to east through the central area of the site and is culverted at the eastern and western boundaries of the site. The brook flows along a straight artificial concrete channel within a small valley though the slope of the

northern bank becomes more significant towards the eastern extents. The banks are predominantly vegetated and largely overgrown, with potential invasive Japanese Knotweed bushes tentatively identified on the northern bank adjacent to the recycling facility. Flow within the channel was noted to be very low through debris within grills along the channel indicate that much more significant flow along the channel does take place. A discharge point was noted toward the western extent of the open channel with a steady constant flow. The water channel was noted to have a frothy surface in this area with a stale/stagnant water type odour noted.

2.15 The site is bound to the north by a park and playing fields and to the east by pasture land. To the south of the site is playing fields associated with a nearby school and to the west is residential properties and a small skip hire facility (or similar); though no waste disposal was indicated to take place at the premises. To the north west of Area B, was a small industrial unit of steel frame construction with brick walls and metal cladding on the roof and upper walls. A large shutter was present to the front of the unit. The use for the unit was not ascertained during the visit though was

Published Ground Conditions

2.16 The site (both Area A and Area B) is indicated to be underlain by solid geology comprising Mercia Mudstone Group. Drift deposits are indicated to directly underlie the entire site area. Area A is indicated to be underlain by Alluvium (clay, silt, sand and gravel) drift deposits with Glaciofluvial Deposits (sand and gravel) along the western fringe of the site. Area B is indicated to be wholly underlain by Glaciofluvial Deposits. Given the landfill sites indicated at the site it is likely that a significant thickness of made ground can also be expected.

2.17 Both the Alluvium and Glaciofluvial Deposits indicated at the site are classified by the Environment Agency (EA) as Secondary A Aquifers. The Mercia Mudstone Group solid geology at the site is classified by the EA as a Secondary B Aquifer. The principal migration pathway and receptor is therefore considered to be groundwater in the drift deposits.

2.18 The Wharf Brook is present at the site which flows through Area B in a west to east direction. The flow during the BWB site visit was observed to be low. The stream through the site area was observed to flow through an artificial channel which is likely to provide some protection from the groundwater in this area. However, off site to the east the stream has been observed to flow along its natural path and groundwater beneath Area B is therefore likely to flow towards this stream.

2.19 The River Tean is situated approximately 150m north of Area A with The Wharf Brook which flows through Area B present approximately 200m south of Area A. The groundwater flow direction is therefore difficult to predict beneath Area A; particularly with both these water courses flowing towards the River Dove, which at its nearest point is located approximately 1.1km east of the site.

3.0 SITE WORK

Scope of Works

3.1 The intrusive site investigation works were undertaken at the subject site and across the wider The Dove Way site area by BWB on 5th July 2010 and completed on 8th July 2010. The works undertaken across the wider site comprised the following activities:

- A utilities assessment at proposed borehole locations to identify the presence and location of buried services;
- The excavation of 37no trial pits (TP101 to TP137) by JCB 3CX to a maximum depth of 4.0m bgl;
- The advancement of 7no. boreholes (WS1 to WS7 inclusive) by Sherwood Drilling Ltd to a maximum depth of 3.0m below ground level (bgl) utilising a windowless sampling technique;
- The advancement of 9no. boreholes (BH1 to BH9 inclusive) by Premier Drilling Ltd to a maximum depth of 11.0m below ground level (bgl) utilising a cable percussive sampling technique;
- Installations comprising standpipes, gas taps and lockable covers in all 9no. cable percussive borehole locations;
- Standard penetration tests (SPTs) at frequent intervals in all cable percussive boreholes
- Collection of soil samples from borehole locations and logging of the soil strata encountered.

3.2 Records of the borehole logs are presented as **Appendix 2** with drillers logs presented as **Appendix 3** and a site layout and exploratory hole location plan is presented as **Figure 4**. Post investigation monitoring comprised the following activities:

- Collection of groundwater samples from the installed boreholes;
- Collection of surface water samples from three positions within The Wharf Brook; and
- Three return visits (with an additional 3no visits scheduled) to record depth to groundwater, gas flow and ground gas concentrations (carbon dioxide, oxygen, methane, hydrogen sulphide and carbon monoxide).

3.3 The post investigation monitoring results are presented as **Appendix 4**.

Sampling Strategy

3.4 Three cable percussive boreholes have been position in each of Area A and Area B in order to triangulate the groundwater in each area and to establish general ground conditions. The window sample boreholes and trial pits have been positioned to target areas of potential contamination while also proving a good special coverage of the site.

3.5 Based on the above strategy the following justification for the position of each borehole position is provided in **Table 1** below:

Table 1 – Borehole Location Justification

Area	Borehole Location	Justification
A	TP109 to TP123	Provide spatial coverage.
A	BH1 to BH3	Triangulate the groundwater in Area A and provide information on the deeper ground conditions.
B	TP135 to TP137	Provide spatial coverage across areas without hard stand within Area B.
B	WS1 to WS7	Provide spatial coverage across Area B primarily where hardstand was present while also targeting the public refuse site (WS1 to WS3) the former gas works (WS4 to WS7) and the current and former ASTs (WS6).
B	BH7 to BH9	Triangulate the groundwater in Area B and provide information on the deeper ground conditions.

3.6 The site work was carried out in general accordance with BS5930 1999 'Code of Practice for Site Investigations' and BS10175 2001 'Code of Practice for Investigation of Potentially Contaminated Sites'.

Analytical Strategy

3.7 The Phase I identified a number of potential sources of contamination. Not all contaminants have been targeted; rather, the contaminants that are considered to pose a greater risk to the site have been targeted for sampling. The contaminants that are considered most likely to have impacted upon the site from the sites former use as a gas works in addition to the ASTs present at the site, made ground associated with landfilling and profiling works and the vehicle repair workshop are: hydrocarbons; heavy metals; PAHs; inorganic contaminants (inc cyanide); volatile organic compounds (VOCs); and semi volatile organic compounds (SVOCs).

3.8 Soil samples were collected from borehole locations, placed in cool boxes and sent to a UKAS accredited laboratory for chemical analysis. The suite of analytical testing undertaken on soil samples obtained from Areas A & B comprised:

- A total of 30 samples tested for arsenic, barium, beryllium, water soluble boron, cadmium, chromium, copper, lead, mercury, nickel, selenium, vanadium, zinc, water soluble sulphate (2:1 extract), total phenols, total cyanide, free cyanide, complex cyanide, fraction of organic carbon, pH, PAH (United States Environment Protection Agency priority 16 compounds) and Total Petroleum Hydrocarbons (TPH) C6-C40 with TPH column clean up;
- A total of 12 samples tested for TPH speciated to the UK Criteria Working Group (CWG) aliphatic and aromatic compounds;
- A total of 2 samples tested for VOCs;
- An asbestos screen in 6 samples; and
- Leachate derived from soil samples was analysed from 12 samples. The suite of analytical testing undertaken comprised: arsenic, barium, beryllium,

dissolved boron, cadmium, chromium, copper, lead, mercury, nickel, selenium, vanadium, zinc, sulphate, total cyanide and pH.

3.9 The results of the soil and soil leachate analytical testing are presented in the Certificate of Analysis report number 91025 and report number 91087 both dated 21st July 2010 as **Appendix 5**.

3.10 Groundwater samples were taken from 6 monitoring well locations (BH1 to BH3 and BH7 to BH9) and 3 surface water samples were taken from The Wharf Brook and sent to a UKAS accredited laboratory for chemical analysis. During sampling the boreholes were purged by the removal of three well volumes prior to the collection of the groundwater samples. The suite of analytical testing undertaken on all samples comprised:

- Arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, vanadium, zinc, conductivity, soluble sulphate, sulphide, free sulphur, ammoniacal nitrogen, total phenols, total cyanide, pH, total organic carbon, PAH (US EPA priority 16 compounds) and TPH; and
- TPH speciated to the UK CGW and BTEX based on TNRCC method 1006;

3.11 The results of the groundwater and surface water analytical testing are presented in the Certificate of Analysis report number 91589 dated 26th July 2010 as **Appendix 6**.

Geotechnical Strategy

3.12 The principal objectives for the geotechnical investigation were to determine soil parameters for use in foundation design and establish any geotechnical constraints associated with the proposed development. In-situ soil strength testing in the form of SPTs and soil laboratory testing was undertaken to allow preliminary foundation assessment for the proposed development of the site as industrial units.

3.13 Geotechnical laboratory testing was undertaken on samples collected from Area A & B with the analysis comprising:

- Particle size distribution on 9 samples;
- Moisture content of clay on 8no samples; and
- Atterberg Limits on 8no samples.

3.14 The results of the geotechnical analytical testing are presented as **Appendix 7**.

4.0 IN SITU TESTING

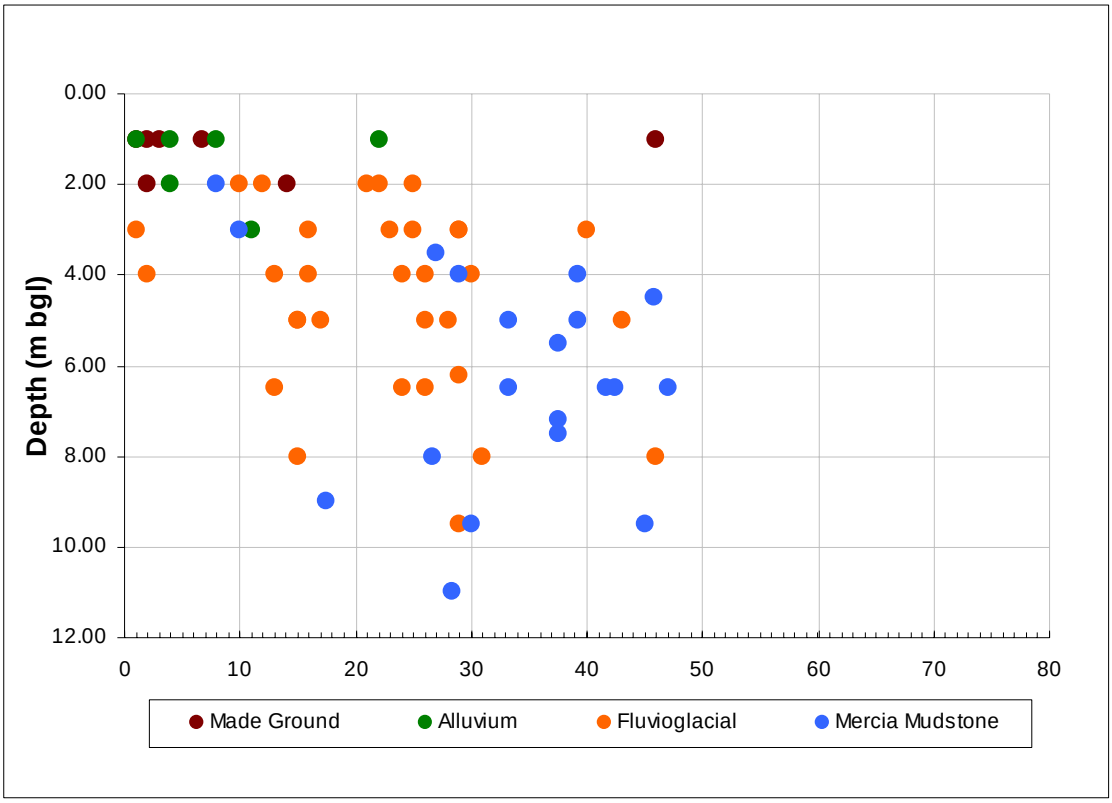
Soil Shear Strength

4.1 A hand shear vane was utilised within trial pits to determine the shear strength of cohesive materials encountered. The shear strength of the cohesive Alluvium strata between 2.25m bgl and 2.9m bgl range between 18kPa and 70kPa in area A; no hand shear vane testing was undertaken in Area B due to the nature of the strata encountered. The results from the hand shear vane are indicated on the borehole logs presented as **Appendix 3**.

Standard Penetration Testing

4.2 Standard penetration tests (SPTs) were undertaken in all cable percussive boreholes typically at 1.0m increments to 5.0m bgl and at 1.5m increments thereafter. The results of the standard penetration testing are presented on the borehole logs as **Appendix 3** and are presented graphically on **Figure 5** below.

Figure 5 – Standard Penetration Test Results



5.0 GROUND GAS MONITORING

5.1 A summary of the results of ground gas monitoring undertaken to date is presented in **Table 2** below. The results of the post investigation ground gas and groundwater monitoring is presented as **Appendix 4**.

Table 2 – Summary of Gas Monitoring Results

Borehole Ref.	Flow (%v/v)		Carbon Dioxide (%v/v)			Methane (%v/v)		
	min.	max.	min.	max.	avg.	min.	max.	avg.
BH1	<0.1	-0.2	3.1	6.5	5.3	<0.1	0.1	0.1
BH2	<0.1	0.2	2.2	12.7	9.0	<0.1	0.1	0.1
BH3	<0.1	0.2	12.8	13.9	13.4	<0.1	0.2	0.1
BH4	<0.1	<0.1	0.2	3.0	1.7	<0.1	<0.1	<0.1
BH5	<0.1	<0.1	0.3	0.7	0.4	<0.1	<0.1	<0.1
BH6	0.2	0.2	0.6	0.6	0.6	<0.1	<0.1	<0.1
BH7	<0.1	<0.1	1.9	3.1	2.3	<0.1	0.1	0.1
BH8	<0.1	0.4	<0.1	0.8	0.5	<0.1	<0.1	<0.1
BH9	<0.1	<0.1	0.9	2.7	2.1	<0.1	0.1	0.1

6.0 LABORATORY TESTING

Environmental

6.1 The results of soil chemical laboratory analysis are presented as **Appendix 5** with groundwater and surface water testing analytical results presented as **Appendix 6**. A summary of the chemical results is presented in **Table 3** below.

Table 3 –Chemical Results Summary

Test	Soil			Water		
	Units	Min	Max	Units	Min	Max
pH	pH Units	3.71	8.7	pH Units	7.65	8.5
Cyanide, Total	mg/kg	<1	22100	mg/l	<0.05	1.63
Cyanide, Free	mg/kg	<1	5.12			
Cyanide, Complex	mg/kg	3.77	22200			
Sulphate	g/l	0.0109	1.49	mg/l	15.3	413
Arsenic	mg/kg	2.21	50.8	µg/l	1.13	2.88
Barium	mg/kg	12.3	675	µg/l	21.7	429
Beryllium	mg/kg	0.469	7.11	µg/l	<0.07	0.091
Cadmium	mg/kg	<0.12	22.2	µg/l	<0.1	0.38
Chromium	mg/kg	7.58	104	µg/l	1.59	13.6
Copper	mg/kg	7.72	468	µg/l	0.875	6.22
Lead	mg/kg	14.4	379	µg/l	<0.02	1.98
Mercury	mg/kg	<0.14	1.82	µg/l	<0.01	<0.01
Nickel	mg/kg	3.94	69.9	µg/l	1.18	17
Selenium	mg/kg	1.02	9.95	µg/l	0.423	8.05
Vanadium	mg/kg	14.3	47.4	µg/l	2.14	4.28
Zinc	mg/kg	29.6	542	µg/l	1.02	25.1
Boron, water soluble	mg/kg	<1	6.71	µg/l	31.5	1540
Phenols, Total monohydric	mg/kg	<0.22	2.1	mg/l	<0.015	<0.015
TPH >C6-C40	mg/kg	<10	13800			
EPH Range >C10 - C40 (aq)				µg/l	52.3	1880

	Soil			Water		
BTEX, Total	µg/kg	<10	741	µg/l	<10	<10
Total Aliphatics & Aromatics >C5-35	µg/kg	49200	20000000	µg/l	<10	964
Polyaromatic hydrocarbons, Total USEPA 16	µg/kg	<0.118	1030000	µg/l	<0.1	82.8

Geotechnical

6.2 The results of geotechnical testing are presented as **Appendix 7**. A summary of the moisture content and plasticity index results are presented in **Table 4** below.

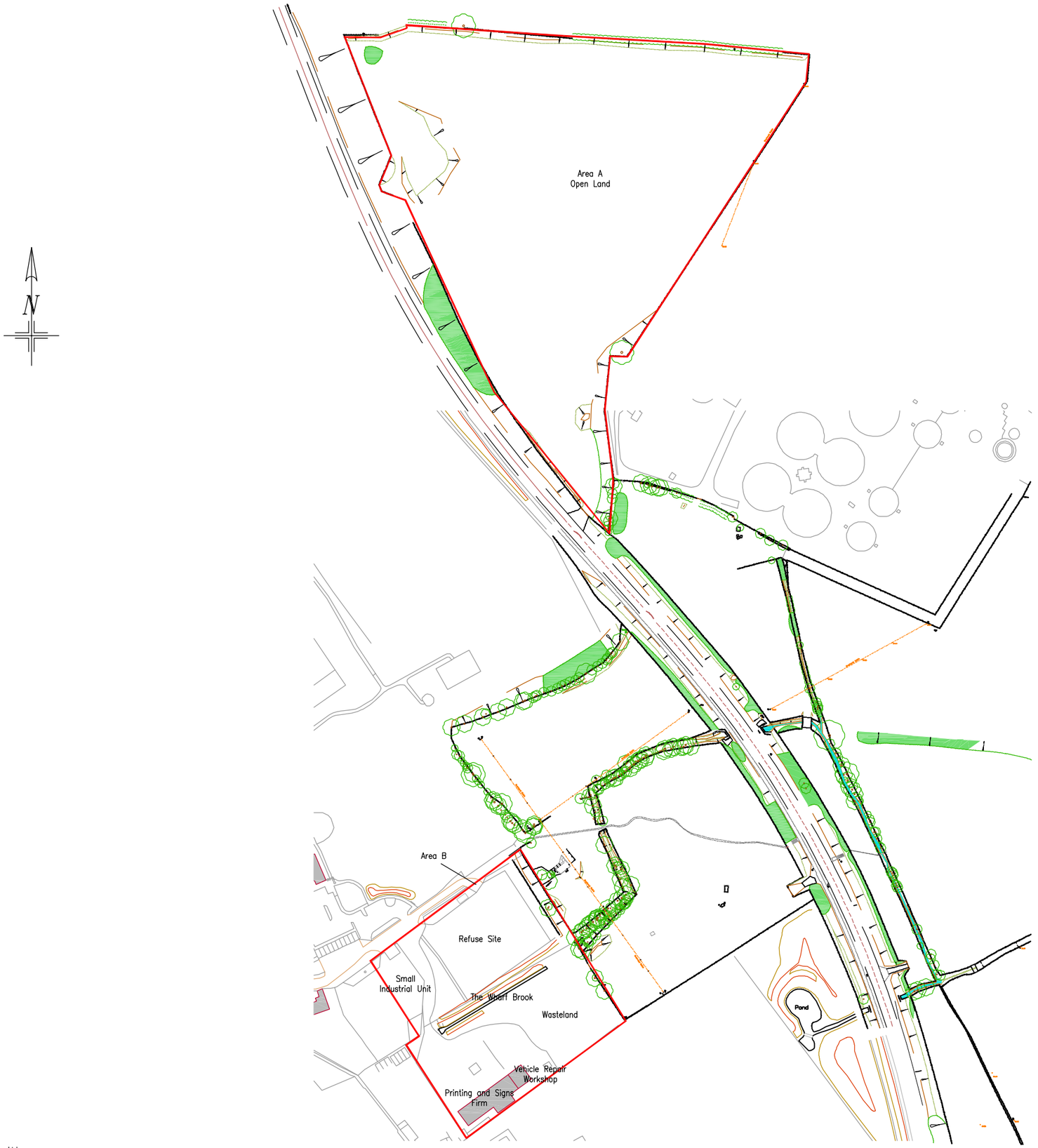
Table 4 – Plasticity Index Results Summary

Hole Location	Depth (m)	Strata	Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)
BH1	1.8	Alluvium	25	43	24	19	80
BH2	8.9	Mercia Mudstone	15	32	18	14	100
BH3	2.6	Alluvium	34	56	26	30	100
BH3	8.4	Mercia Mudstone	17	32	19	13	100
BH4	0.9	Alluvium	28	55	27	28	100
BH4	5.4	Mercia Mudstone	18	30	17	13	96
BH5	3	Mercia Mudstone	20	34	20	14	100
BH6	0.5	Alluvium	22	29	17	12	95
BH6	6.7	Mercia Mudstone	24	34	20	14	100
BH7	4.6	Mercia Mudstone	18	32	20	12	98
BH8	6	Mercia Mudstone	21	31	19	12	84
BH9	2.5	Alluvium	12	27	15	12	81
BH9	4.5	Mercia Mudstone	17	28	17	11	80
TP101	0.5	Alluvium	34	53	26	27	100

FIGURES

FIGURE 2

SITE LAYOUT PLAN



NOTES

1. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS MUST BE CHECKED/ VERIFIED ON SITE. IF IN DOUBT ASK.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
3. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL LEVELS IN METRES UNLESS NOTED OTHERWISE.
4. ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

LINETYPE DENOTES LOCATION OF SITE BOUNDARY

Rev	Date	Description	Drawn	Authd

AMENDMENTS

BWB CONSULTING

Integrated Engineering and Environmental Consultants

3-4 Kayes Walk The Lace Market Nottingham NG1 1PY
T 0115 924 1100 F 0115 950 3966 W bwbconsulting.com
environmental | water | transportation | civil | structural | highways | infrastructure

Client

East Staffordshire Borough Council

Project Title

The Dove Way
Uttoxeter

Drawing Title

Site Layout Plan

Scale	Date	Drawn	Authorised
1:2,500	30.06.2010	RTR	DRW

Drawing Status

FINAL

Drawing No:	Revision
NTE285/01/02	–

Y:\Series\ABC\ABC

FIGURE 3

SITE DEVELOPMENT MASTERPLAN

North

0m 100m

Revisions
A General amendments 27 February 2009

The Dove Way, Uttoxeter, Staffordshire - **Illustrative Layout**

I T 01509 670806 I F 01509 672247 I www.ppg-llp.co.uk I Team PS/ I 09 February 2009 I Scale 1:1250 @ A0 I dwg. EMS.1685-01-02-A I client **Conder Developments**

Pegasus Urban Design

FIGURE 4

EXPLORATORY HOLE LOCATION PLAN

NOTES

1. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS MUST BE CHECKED/ VERIFIED ON SITE. IF IN DOUBT ASK.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
3. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL LEVELS IN METRES UNLESS NOTED OTHERWISE.
4. ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

	LINETYPE DENOTES LOCATION OF SITE BOUNDARY
WS**	DENOTES LOCATION OF CABLE PERCUSSIVE BOREHOLE
BH**	DENOTES LOCATION OF WINDOW SAMPLE HOLE
TP**	DENOTES LOCATION OF TRAIL PIT

Rev	Date	Description	Drawn	Auth'd

AMENDMENTS

BWB CONSULTING

Integrated Engineering and Environmental Consultants

3-4 Kayes Walk The Lace Market Nottingham NG1 1PY
T 0115 924 1100 F 0115 950 3966 W bwbconsulting.com
environmental | water | transportation | civil | structural | highways | infrastructure

Client

Clowes Securites (West Midlands) LLP
&
East Staffordshire Borough Council

Project Title

The Dove Way
Uttoxeter

Drawing Title

Proposed Exploratory Hole Locations

Scale	Date	Drawn	Authorised
1:2,500	04.08.2010	RTR	DRW

Drawing Status

FINAL

Drawing No:	Revision
NTE285/03/01	–

Y:\Series\ABC\ABC

A3

APPENDICES

APPENDIX 1

SITE PHOTOGRAPHS

Access Gate to Area A off The Dove Way

Mound towards the southern area of Area A with potential Japanese Knotweed clumps.

View South across Area A

View north across Area A

Tunnel under The Dove Way at the western edge of the site

Clump of potential Japanese Knotweed in the northern section of Area A

View east from The Dove Way to the sewage treatment works

Land to the west of Area A and The Dove Way

Unit in the north western section of Area B

Area B—Exit of the Refuse site.

Skips and bins in the central area of the refuse

Waste oil AST in the eastern area of the refuse site.

Potential Japanese Knotweed by the entrance to the refuse site

Entrance to the industrial estate in the south of Area B

Industrial Buildings in the south of Area B

ASTs adjacent to the vehicle repair works

AST, old oil filter bin and other items including evidence of potential contamination migrating into the drainage system.

Former fire and drum with ash and other debris around the area

The Wharf Brook at the discharge point and end of the culvert in the western section of the site

Looking down stream—The Wharf Brook

Potential Japanese Knotweed on the northern bank of The Wharf Brook

Waste land in the south eastern section of Area B

Depot to the west of Area B

Parkland to the north of Area B

School to the south of Area B

Overgrown fields to the east of Area B

APPENDIX 2

EXPLORATORY HOLE LOGS

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	BH1
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	Dando Rig	**Start Date** 06/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.50	Long grass over TOPSOIL with abundant rootlets. - Interpolated from Driller's description	80.10		B D	0.50	1.00		
			MADE GROUND: Very loose gravel fill with ash and pottery. (Landfill Material) - Interpolated from Driller's description						1.00 (C)	N=2 (1,0/0,1,1,0)
		1.80		78.80		D	1.80			
		2.00	Firm grey mottled brown CLAY with occasional gravel. (Alluvium) - Interpolated from Driller's description	78.60					2.00 (C)	N=21 (2,2/6,7,4,4)
▽ 3.00			Medium dense grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits) - Interpolated from Driller's description			D	3.00		3.00 (C)	N=23 (4,3/5,6,5,7)
						B	4.00	4.50	4.00 (C)	N=26 (4,4/4,6,8,8)
									5.00 (C)	N=28 (6,5/9,9,5,5)
									6.50 (C)	N=24 (4,5/10,5,4,5)
			Occassional stiff red brown clay.			B	6.90	7.40		
									8.00 (C)	N=15 (2,3/3,5,4,3)
									9.50 (C)	N=29 (3,5/6,7,7,9)

Continued next sheet

REMARKS

1. Groundwater depth recorded at 4.2m bgl on borehole completion.
2. No visual or olfactory evidence of contamination.
3. Hole cased to 5.0m bgl.
4. Water added between 2.0m bgl and 5.0m bgl.
5. Hole installed with 53mm HDPE Standpiepe with gas tap and raised cover. Response zone between 1.0m bgl and 11.0m bgl.
6. Hole position determined from the site topographical survey plan.
7. Hole level determined from an optical levelling survey.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409202.00	334669.00	80.60
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 2

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	BH1
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	Dando Rig	**Start Date** 06/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		10.40	Medium dense grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits) - Interpolated from Driller's description	70.20						
		11.00	Moderately weak red brown MUDSTONE. (Mercia Mudstone Formation) - Interpolated from Driller description.	69.60					11.00 (S)	50 (8,11/18,21,11 for 20mm)
			End of hole at 11.00 m							

REMARKS

1. Groundwater depth recorded at 4.2m bgl on borehole completion.
2. No visual or olfactory evidence of contamination.
3. Hole cased to 5.0m bgl.
4. Water added between 2.0m bgl and 5.0m bgl.
5. Hole installed with 53mm HDPE Standpiepe with gas tap and raised cover. Response zone between 1.0m bgl and 11.0m bgl.
6. Hole position determined from the site topographical survey plan.
7. Hole level determined from an optical levelling survey.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

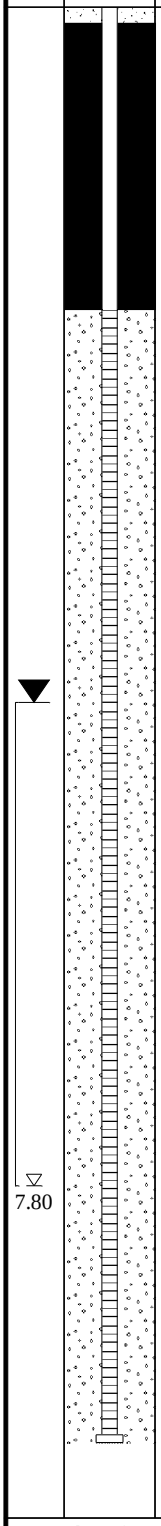
IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409202.00	334669.00	80.60
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 2 of 2

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	BH2
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	Dando Rig	**Start Date** 07/07/2010	**End Date** 07/07/2010



Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
			Long grass over TOPSOIL with abundant rootlets - Interpolated from Driller's description.							
		0.60		79.74						
			MADE GROUND: Very loose soil fill with ash, metal fragments, glass and pottery. (Landfill Material) - Interpolated from Driller's description			D	1.00		1.00 (C)	N=1 (1,0/0,0,1,0)
		1.80		78.54		D	1.80			
			Firm grey mottled brown CLAY with occasional gravel. (Alluvium) - Interpolated from Driller's description						2.00 (S)	N=12 (1,1/1,3,4,4)
		2.20		78.14						
		2.40		77.94						
			Medium dense grey and brown clayey sub rounded to rounded quartz GRAVEL. (Fluvioglacial Deposits) - Interpolated from Driller's description			B	3.00	3.50	3.00 (C)	N=40 (7,8/10,9,10,11)
			Medium dense becoming dense from 8.0m grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits) - Interpolated from Driller's description						4.00 (C)	N=24 (3,5/6,7,6,5)
									5.00 (C)	N=15 (2,3/3,4,4,4)
						B	6.50	7.00	6.50 (C)	N=13 (3,3/3,3,4,3)
									8.00 (C)	N=46 (9,9/11,12,12,11)
		8.90		71.44		D B	8.90 9.00	9.50		
			Moderately weak red brown MUDSTONE. (Mercia Mudstone Formation) - Interpolated from Driller description.							
		9.50		70.84					9.50 (S)	53 (7,10/12,13,15,13 for 30mm)
			End of hole at 9.50 m							

REMARKS

1. Groundwater encountered at approximately 4.5m bgl.
2. No visual or olfactory evidence of contamination.
3. Hole cased throughout.
4. Water added between 2.4m bgl and 4.5m bgl.
5. Hole installed with 53mm HDPE Standpiepe with gas tap and raised cover. Response zone between 2.0m bgl and 9.5m bgl.
6. Hole position determined from the site topographical survey plan.
7. Hole level determined from an optical levelling survey.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409359.00	334639.00	80.34
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	BH3
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	Dando Rig	**Start Date** 08/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.10	Long grass over TOPSOIL with abundant rootlets - Interpolated from Driller's description.	80.46						
		0.40		80.16						
		0.55	MADE GROUND: Brown silty clayey topsoil with frequent bricks and concrete cobbles - Interpolated from Driller's description	80.01		D	0.60			
									1.00 (C)	N=3 (1,0/0,1,1,1)
			MADE GROUND: Concrete							
			MADE GROUND: Very loose brown soil fill with ash, metal fragments and bottles. (Landfill Material) - Interpolated from Driller's description			B	2.00	2.50	2.00 (C)	N=2 (1,0/1,0,0,1)
		2.60	Firm grey mottled brown silty sandy CLAY. (Alluvium) - Interpolated from Driller's description	77.96		D	2.60			
									3.00 (S)	N=11 (2,2/2,3,3,3)
		3.40	Medium dense grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits) - Interpolated from Driller's description	77.16		B	4.00	4.50	4.00 (C)	N=13 (2,2/3,3,3,4)
▼ 5.60									5.00 (C)	N=15 (2,3/3,4,3,5)
						B	6.50	7.00	6.50 (C)	N=26 (3,5/7,7,6,6)
									8.00 (C)	N=31 (4,6/9,7,7,8)
		8.40	Moderately weak red brown MUDSTONE. (Mercia Mudstone Formation) - Interpolated from Driller description.	72.16		D	8.40			
		9.50	*End of hole at 9.50 m*	71.06					9.50 (S)	50 (7,11/15,18,17 for 30mm)

REMARKS

1. Groundwater encountered at approximately 5.6m bgl.
2. No visual or olfactory evidence of contamination.
3. Hole cased to 8.8m bgl.
4. Hole installed with 53mm HDPE Standpiepe with gas tap and raised cover. Response zone between 2.0m bgl and 9.5m bgl.
5. Hole position determined from the site topographical survey plan.
6. Hole level determined from an optical levelling survey.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

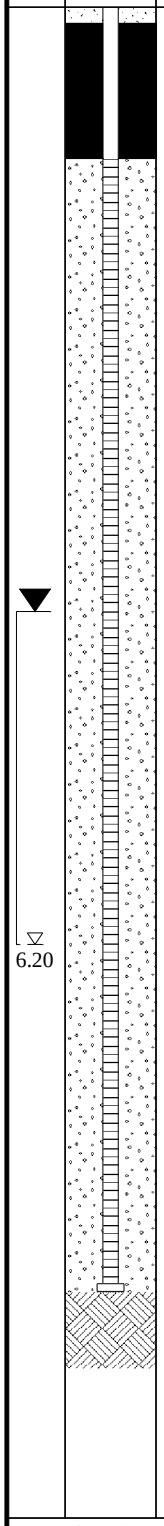
IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409258.00	334514.00	80.56
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	BH7
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	Dando Rig	**Start Date** 07/07/2010	**End Date** 07/07/2010



Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
			MADE GROUND: Dense brick fill - Interpolated from Driller's description.			B	0.20	0.70		
						D	0.50		1.00 (C)	N=46 (12,12/10,11,12,13)
		1.70		83.04						
			Medium dense grey and brown fine grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits) - Interpolated from Driller's description			D	1.80			
						B	2.00	2.50	2.00 (C)	N=25 (8,5/5,7,7,6)
									3.00 (C)	N=25 (6,6/7,6,6,6)
									4.00 (C)	N=30 (8,7/7,8,8,7)
			Stiff red brown clay.			B	4.50	5.00		
						D	4.60			
									5.00 (C)	N=26 (6,5/6,6,8,6)
▽									6.20 (S)	N=29 (5,7/8,7,7,7)
		7.20		77.54					7.20 (S)	50 (25/14,16,14,6 for 0mm)
			Weak red brown MUDSTONE. (Mercia Mudstone Formation) - Interpolated from Driller's description.			B	8.00	8.50		
		9.00	*End of hole at 9.00 m*	75.74					9.00 (S)	50 (25 for 10mm/32,18 for 30mm

REMARKS

1. Groundwater encountered at approximately 6.2m bgl.
2. No visual or olfactory evidence of contamination.
3. Hole cased to 8.5m bgl.
4. Hole installed with 53mm HDPE Standpiepe with gas tap and raised cover. Response zone between 1.0m bgl and 8.5m bgl.
5. Hole position determined from the site topographical survey plan.
6. Hole level determined from an optical levelling survey.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

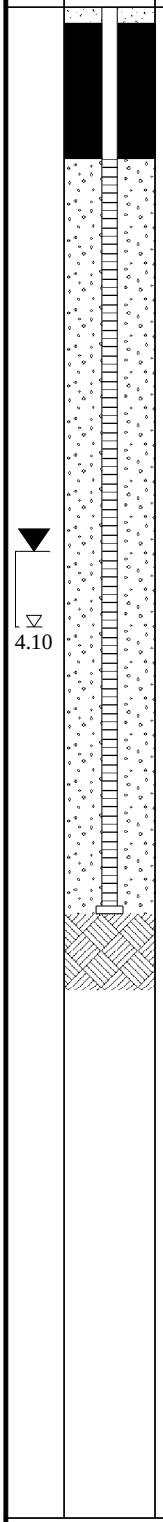
IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409200.00	334125.00	84.74
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	BH8
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	Dando Rig	**Start Date** 08/07/2010	**End Date** 08/07/2010



Groundwater Strike	Depth (m)	Description of Strata	Level (mAOD)	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
	0.30	MADE GROUND: Brick fill - Interpolated from Driller's description.	83.01					
		MADE GROUND: Fill including frequent concrete boulders - Interpolated from Driller's description.		B D	0.50	1.00		
							1.00 (C)	50 (25 for 20mm/50 for 40mm)
							2.00 (C)	50 (25 for 0mm/43,7 for 10mm)
	2.30	Medium dense grey and brown fine grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits) - Interpolated from Driller's description	81.01					
				B D	3.00	3.50	3.00 (C)	N=29 (7,8/7,7,7,8)
▽								
4.10							4.00 (C)	N=29 (6,8/6,8,8,7)
	4.10	Weak red brown MUDSTONE. (Mercia Mudstone Formation) - Interpolated from Driller's description.	79.21					
				B	5.00	5.50	5.00 (S)	50 (25/18,17,15 for 50mm)
				D	6.00			
	6.50	*End of hole at 6.50 m*	76.81				6.50 (S)	50 (25/16,15,19 for 50mm)

REMARKS

1. Groundwater encountered at approximately 4.1m bgl.
2. Slight solvent odour noted between 0.3m bgl and 2.3m bgl.
3. Hole cased to 5.0m bgl.
4. Hole installed with 53mm HDPE Standpipe with gas tap and raised cover. Response zone between 1.0m bgl and 6.0m bgl.
5. Hole position determined from the site topographical survey plan.
6. Hole level determined from an optical levelling survey.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409258.00	334080.00	83.31
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	BH9
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	Dando Rig	**Start Date** 07/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.30	MADE GROUND: Fine to coarse angular road stone GRAVEL - Interpolated from Driller's description	80.87						
		0.50	MADE GROUND: Fine to coarse angular brick GRAVEL fill - Interpolated from Driller's description.	80.67		B D	0.50	1.00		
			Very soft to firm CLAY. (Alluvium) - Interpolated from Driller's description.						1.00 (C)	N=1 (1,0/0,0,1,0)
									2.00 (C)	N=10 (1,0/2,3,3,2)
		2.20	Firm sandy gravelly CLAY. Gravel is rounded fine to coarse quartz. (Alluvium) - interpolated from Driller's description.	78.97		B D	2.50	3.00		
									3.00 (C)	N=16 (2,2/3,3,4,6)
▽ 3.30		3.30	Weak red brown MUDSTONE. (Mercia Mudstone Formation) - Interpolated from Driller's description.	77.87					3.50 (S)	N=27 (7,6/7,7,6,7)
						D	4.50		4.50 (S)	50 (10,10/13,13,12,12 for 50mm)
						B	5.00	5.50		
		5.30	*End of hole at 5.30 m*	75.87					5.50 (S)	50 (25 for 60mm/17,14,14,5 for 0m

REMARKS

1. Groundwater encountered at approximately 3.3m bgl
2. No visual or olfactory evidence of contamination.
3. Hole cased to 4.5m bgl.
4. Hole installed with 53mm HDPE Standpiepe with gas tap and raised cover. Response zone between 1.0m bgl and 4.5m bgl.
5. Hole position determined from the site topographical survey plan.
6. Hole level determined from an optical levelling survey.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409274.00	334135.00	81.17
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP109
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 08/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.20	MADE GROUND: Grass over firm to stiff brown CLAY with abundant roots.	79.68						
			MADE GROUND: Brown grey ashy gravelly SAND and CLAY in a matrix with frequent glass, bottles, plastics, metals fragments, wood, textiles and pottery. Localised hydrocarbon odours and staining noted. (Landfill Material)			DJV	0.90			
		1.90	Firm grey brown CLAY. (Alluvium)	77.98						
		2.20	Grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. Slight hydrocarbon odours and staining noted. (Fluvioglacial Deposits)	77.68		DJV	2.50			
		3.80	*End of hole at 3.80 m*	76.08						

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. Localised hydrocarbon odours and staining noted throughout.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409389.00	334648.00	79.88
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP110
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.10	MADE GROUND: Brick, rubble and plastics.	80.10						
		0.40	MADE GROUND: Soft brown sandy gravelly CLAY. Gravel is brick plastics and medium quartz cobbles	79.80		DJV	0.40			
						DJV	0.80			
			MADE GROUND: Medium brown to black sandy gravelly CLAY landfill of plastics, glass, wire, machinery, wood, paper.							
		1.80	Soft orange brown to pinkish grey slightly gravelly slightly sandy CLAY. Gravel is fine coal and fibrous organic matter.	78.40						
						DB DJV	2.50		2.50	SV = 60 kN/m2
		2.80	*End of hole at 2.80 m*	77.40						

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409271.00	334466.00	80.20
LOGGED BY	**SCALE**	**SHEET**
AM	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP111
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.10	MADE GROUND: Brick and rubble.	80.55						
		0.50	MADE GROUND: soft brown sandy cobbley CLAY. Cobbles of quartz, glass, tile and brick.	80.15		DJV	0.40			
			MADE GROUND: Black slightly sandy gravelly cobbley CLAY containing landfill of plastic bags, metal wire, glass, brick, paper, wood, flooring, shoes, bones and occasional quartz sub-rounded quartz.							
		2.50		78.15						
			Soft light orange brown mottled grey slightly gravelly slightly sandy CLAY. Gravel is sub rounded quartz. Contains organic matter and roots. (Alluvium)			DJV	2.80			
		3.00		77.65						
			End of hole at 3.00 m							

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409240.00	334491.00	80.65
LOGGED BY	**SCALE**	**SHEET**
AM	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP112
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.30	MADE GROUND: Brown sandy gravelly CLAY. Gravel is sub-angular to sub-rounded quartz and brick, glass and tile.	80.68						
		0.40	MADE GROUND: Black fine to coarse compacted sand	80.58		DJV	0.80			
		1.50	MADE GROUND: Dark brown to black sandy CLAY landfill with, metal bar, lump hammer, cement, yellow plastic, metal machinery, glass.	79.48						
		2.40	MADE GROUND: Black soft slightly clayey gravelly cobbley SAND with domestic landfill containing, bottles, glass, domestic waste, brick and paper (1967-68).	78.58						
		2.80	Soft orange brown to pinkish grey slightly gravelly slightly sandy CLAY. Gravel is fine coal and fibrous organic matter.	78.18		DJV	2.80			
		2.90	Grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits)	78.08						
			End of hole at 2.90 m							

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409223.00	334536.00	80.98
LOGGED BY	**SCALE**	**SHEET**
AM	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP113
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.05	MADE GROUND: Brick and Rubble	80.76						
		0.40	MADE GROUND: Soft medium brown slightly cobbley slightly sandy CLAY. Cobbles are medium sub-rounded to sub-angular brick and quartzite.	80.41						
		1.00	MADE GROUND: Black slightly gravelly SAND. Gravel is white and artificially made.	79.81						
		2.00	MADE GROUND: Soft medium brown and orange sandy gravelly CLAY with domestic and industrial landfill.	78.81					2.25	SV = 40 kN/m2
		2.50	Soft orange brown to pinkish grey slightly gravelly slightly sandy CLAY. Gravel is fine coal with fibrous organic matter.	78.31					2.80	SV = 45 kN/m2
▽ 3.10		2.90		77.91		DJV	3.00			
		3.10	Firm light brown mottled orange brown slightly sandy slightly gravelly CLAY. Gravel is angular fine coal and occasional fine to coarse rounded quartz.	77.71						
			Grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits)							
			End of hole at 3.10 m							

REMARKS

1. Groundwater strike noted at approximately 3.1m bgl.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409223.00	334590.00	80.81
LOGGED BY	**SCALE**	**SHEET**
AM	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP114
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.00	MADE GROUND: Long grass over brown silty sandy TOPSOIL							
		0.45	MADE GROUND: Soft slightly sandy slightly gravelly CLAY. Contains fibrous organic material.	80.43		DJV	0.50			
		0.80	MADE GROUND: Soft yellowy brown to orange sandy gravelly CLAY. Contains medium sub-angular brick cobbles and domestic waste.	80.08						
		1.60	MADE GROUND: Black gravelly slightly clayey SAND. Gravel is fine to medium sub-rounded quartz and brick fragments. Contains landfill predominantly plastics.	79.28						
		2.10	Firm green and brown grey slightly sandy CLAY. Contains coal fragments and fibrous organic material. (Alluvium)	78.78					2.50	SV = 45 kN/m2
		2.60	Firm light brown mottled orange sandy CLAY. Contains coal fragments and fibrous organic material. (Fluvioglacial Deposits	78.28					2.90	SV = 50 kN/m2
		3.10	*End of hole at 3.10 m*	77.78						

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409237.00	334634.00	80.88
LOGGED BY	**SCALE**	**SHEET**
AM	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP115
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.10	MADE GROUND: Long grass over brown silty sandy TOPSOIL	79.54						
		0.70	MADE GROUND: Soft slightly sandy CLAY. Contains occasional medium sub-rounded quartz cobbles and tile.	78.94		DJV	0.60			
		1.20	Soft orangey brown slightly sandy CLAY. Contains coal fragments and fibrous organic material. (Alluvium)	78.44						
▽ 2.00			Brown orangey red clayey SAND and GRAVEL. Gravel is medium to coarse sub rounded quartz. Sand occurs in pockets and content increases with depth. (Fluvioglacial Deposits							
		2.50	Soft red and grey slightly gravelly CLAY. Gravel is fine rounded quartz. (Fluvioglacial Deposits)	77.14					2.80	SV = 20 kN/m2
		2.90	*End of hole at 2.90 m*	76.74					2.90	SV = 30 kN/m2

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409171.00	334656.00	79.64
LOGGED BY	**SCALE**	**SHEET**
AM	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP116
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.30	MADE GROUND: Brick and rubble over a black canvas membrane layer.	80.02		DJV	0.20			
		0.50	MADE GROUND: Brown sandy slightly gravelly CLAY. Gravel is medium to coarse sub-angular brick and medium sub-rounded quartz.	79.82						
		1.70	MADE GROUND: Black slightly clayey gravelly SAND. Gravel is fine and sub-angular. Contains glass, wire, brick, fibrous material (clothing and paper) metal. (Ashy fill)	78.62		DJV	1.80			
		2.30	MADE GROUND: Soft medium brown to black slightly sandy slightly gravelly CLAY. Landfill with glass, paper, plastic bags, pots, metal and ash.	78.02						
		2.60		77.72						
		2.70	Soft brown slightly sandy slightly gravelly CLAY. Gravel is medium sub rounded quartz. Contains occasional fine angular coal fragments with fibrous organic material. (Alluvium)	77.62						
			Grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits)							
			End of hole at 2.70 m							

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409279.00	334418.00	80.32
LOGGED BY	**SCALE**	**SHEET**
AM	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP117
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 08/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
			Long grass and vegetation over firm friable orange brown slightly gravelly very sandy CLAY. (Alluvium)			DJV	0.50			
		1.50		78.80						
			Soft grey brown slightly gravelly CLAY. Gravel is rounded fine to coarse quartz. (Alluvium)			DJV	1.80			
		1.90		78.40						
			Grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits)							
		3.40		76.90						
			End of hole at 3.40 m							

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409335.00	334667.00	80.30
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP118
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 08/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.30	Long grass and vegetation over brown silty sandy organic TOPSOIL with abundant rootlets	80.15						
			MADE GROUND: Soft brown CLAY and gravelly SAND combined in a matrix with ash, wood, metal fragments, glass, wood shavings, textiles and plastics. Gravel is fine to coarse angular to rounded quartz, concrete and brick. Localised hydrocarbon odours and staining noted. (Landfill Material)			DJV	0.90		
		1.60		78.85						
		1.90	Soft grey brown CLAY. (Alluvium)	78.55						
			Grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits)			DJV	3.00			
		3.60	*End of hole at 3.60 m*	76.85						

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. Localised hydrocarbon odours and staining noted between 0.3m bgl and 1.6m bgl.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409255.00	334669.00	80.45
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP119
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 08/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.25	Long grass over brown silty sandy organic TOPSOIL with abundant rootlets.	80.23						
			MADE GROUND: Dark brown ashy gravelly SAND with frequent whole bricks, concrete cobbles and boulders, plastics, bottles, metal fragments, wood and textiles with localised organic/hydrocarbon odours and staining. (Landfill Material)			DJV	0.50			
		2.20		78.28						
			Firm to stiff orange brown and grey gravelly CLAY. Gravel is rounded fine to medium quartz. (Alluvium)							
		2.70		77.78						
			Grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. Slight hydrocarbon/organic odours and staining noted. (Fluvioglacial Deposits)			DJV	3.20			
		3.90	*End of hole at 3.90 m*	76.58						

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. Localised hydrocarnon odours and staining noted between 0.25m bgl and 2.2m bgl and between 2.7m bgl and 3.9m bgl.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409361.00	334612.00	80.48
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP120
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 08/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.30	MADE GROUND: Grass over brown grey sandy angular to rounded fine to coarse brick, quartz and concrete GRAVEL with occasional cobbles.	80.36						
			MADE GROUND: Brown ashy gravelly fine to coarse grained SAND with frequent metal fragments, cable, glass, plastics, textiles, bottles, newspaper and bitumen. Gravel is angular to rounded fine to coarse brick, concrete and quartz. Hydrocarbon odours noted associated with the bitumen material. (Landfill Material)			DJV	0.80		
		2.60	Orange brown and occasionally grey clayey silty sandy cobbley rounded fine to coarse GRAVEL. (Fluvioglacial Deposits)	78.06		DJV	3.00			
		3.60	*End of hole at 3.60 m*	77.06						

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. Hydrocarbon odours associated with bitumen noted between 0.3m and 2.6m bgl.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409309.00	334631.00	80.66
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP121
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 08/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.30	MADE GROUND: Long grass over brown silty sandy TOPSOIL	80.64						
		0.50	MADE GROUND: Soft medium brown slightly sandy gravelly CLAY. Gravel is coarse sub-rounded to sub-angular brick and quartz.	80.44						
		1.06	MADE GROUND: Dark brown with occasional orange and black organic gravelly sandy CLAY. Contains landfill including plastic bags, various plastics, wire, syringes and general rubble. (Landfill Material)	79.88		DJV	0.90			
						DJV	1.10			
						DJV	1.50			
		2.20		78.74					2.30	SV = 40 kN/m2
		2.30	MADE GROUND: Black organic sandy gravelly CLAY. Gravel is fine to medium and sub-angular quartz. Contains plastics, glass and industrial waste. Hydrocarbon odour noted. (Landfill Material)	78.64					2.50	SV = 40 kN/m2
▽ 3.10		3.10	Firm brown dappled orange slightly gravelly sandy CLAY. Gravel is fine sub-rounded to sub-angular organic material (coal) and quartz. (Alluvium)	77.84						
			Soft light brown and grey sandy CLAY. Sand is grey and occurs in pockets. (Alluvium) Concrete obstruction encountered							
			End of hole at 2.50 m							

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. Hydrocarbon odours noted between 1.0m bgl and 2.2m bgl
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409330.00	334604.00	80.94
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title The Dove Way, Uttoxeter	**Hole Ref.** TP122
Client Clowes Securities & ESBC	**Project No.** NTE285
Plant used JCB 3CX	**Start Date** 07/07/2010 — **End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.10	MADE GROUND: Long grass over brown silty sandy TOPSOIL.	80.55						
		0.60	MADE GROUND: Soft medium brown slightly sandy slightly cobbley CLAY with brick, glass and plastics. Cobbles are sub-rounded to sub-angular quartz and brick. (Landfill Material)	80.05						
			MADE GROUND: Soft brown black organic sandy gravelly CLAY with glass bottles, wire, plastics, paper, general industrial waste. Hydrocarbon odour noted. (Landfill Material)			DJV	1.50			
		2.40		78.25						
			Firm grey light brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium angular coal fragments. (Alluvium)							
		2.90		77.75						
		3.00		77.65		DB	3.00			
			Brown and orange clayey SAND and GRAVEL. Gravel is medium to coarse sub rounded quartz. (Fluvioglacial Deposits)							
			End of hole at 3.00 m							

REMARKS

1. No significant groundwater strike though sand and gravel strata noted to be damp.
2. Hydrocarbon odours noted between 1.4m bgl and 2.9m bgl.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409273.00	334597.00	80.65
LOGGED BY	**SCALE**	**SHEET**
AM	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP123
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.20	MADE GROUND: Vegetation over dark brown silty gravelly sandy TOPSOIL. Gravel is fine to medium angular brick. Contains roots.	79.90		DJV	0.30			
		0.40		79.70						
		0.90	MADE GROUND: Soft orange brown slightly sandy gravelly CLAY. Gravel is medium sub-rounded quartz.	79.20						
		1.50	MADE GROUND: Soft dark brown and orange sandy gravelly CLAY containing some landfill material	78.60						
		1.90		78.20		DJV	2.00			
		2.20	MADE GROUND: Soft black sandy gravelly CLAY with high landfill content, includes clothes, plastics, plywood, bags, wire and paper.	77.90						
▽ 3.00		3.00	MADE GROUND: Firm dark brown sandy CLAY.	77.10						
			Firm light brown slightly sandy slightly gravelly CLAY. Gravel is angular fine coal. (Alluvium)							
			Grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. Occasional decomposed wood fragments. (Fluvioglacial Deposits)							
			End of hole at 3.00 m							

REMARKS

1. Groundwater noted at approximately 3.0m bgl.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409316.00	334543.00	80.10
LOGGED BY	**SCALE**	**SHEET**
AM	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP135
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 08/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
			MADE GROUND: Dense vegetation and long grass over dark brown ashy sandy angular to rounded fine to coarse brick, asphalt, concrete, quartz and clinker GRAVEL with roots to 0.5m. Frequent cans, plastics, metal fragments and barbed wire.			DJV	0.90			
		2.90		80.30						
			Soft grey becoming red brown slightly gravelly CLAY. Gravel is rounded fine to coarse quartz. (Fluvioglacial Deposits)			DJV	3.10			
		3.50	*End of hole at 3.50 m*	79.70						

REMARKS

1. No groundwater encountered.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409294.00	334112.00	83.20
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP136
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 08/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.60	MADE GROUND: Vegetation over brown sandy angular to rounded fine to coarse limestone, brick and quartz GRAVEL.	81.80		DJV	0.50			
			MADE GROUND: Brown black sandy angular fine to medium clinker GRAVEL with occasional glass and wood.			DJV	1.00			
		1.90	Soft grey brown CLAY. (Alluvium)	80.50						
		3.00	Orange brown slightly sandy cobbley very gravelly CLAY. Gravel is rounded fine to coarse quartz. (Fluvioglacial Deposits)	79.40						
		3.40	*End of hole at 3.40 m*	79.00						

REMARKS

1. No groundwater encountered.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409264.00	334099.00	82.40
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	TP137
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	JCB 3CX	**Start Date** 08/07/2010	**End Date** 08/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.30	MADE GROUND: Grass and vegetation over light grey brown sandy sub angular to angular fine to coarse limestone GRAVEL.	83.20						
			MADE GROUND: Brown grey gravelly cobbley fine to coarse grained SAND with ash and clinker in a matrix with occasional very soft blue grey silty clay (blue Billy). Gravel is angular fine to coarse brick, limestone, slag and concrete including large boulder sized slabs. Slight solvent like odour noted.			DJV	0.70		
						DJV	2.00			
		2.69		80.81						
		2.70	MADE GROUND: Concrete slab.	80.80						
			End of hole at 2.70 m							

REMARKS

1. No groundwater encountered.
2. Slight solvent odours and blue billy noted throughout.
3. Hole backfilled with arisings on completion.
4. Granular strata very unstable.
5. Hole terminated to hole instability.
6. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409234.00	334114.00	83.50
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	WS1
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	GeoTool Window Sampler	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.70	MADE GROUND: Grass over brown slightly clayey gravelly SAND including fragments of plastic and glass. Gravel is angular to rounded fine to medium brick and quartz.	85.30		DJV	0.10	0.70		
		1.90	MADE GROUND: Firm to stiff brown slightly sandy gravelly CLAY. Gravel is angular to rounded fine to medium coal, sandstone and quartz.	84.10		DJV	1.20	1.60		
		3.00	Grey and brown fine to coarse grained SAND and sub rounded to rounded quartz GRAVEL with occasional cobbles. (Fluvioglacial Deposits)	83.00						
			End of hole at 3.00 m							

REMARKS

1. No groundwater encountered.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409202.00	334174.00	86.00
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	WS2
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	GeoTool Window Sampler	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
			MADE GROUND: Grass over brown slightly clayey gravelly SAND including fragments of glass. Gravel is angular to rounded fine to medium brick, concrete and quartz.			DJV	0.10	0.80		
		0.80		85.20						
			MADE GROUND: Firm locally soft brown slightly sandy gravelly CLAY. Gravel is angular to rounded fine to coarse brick and quartz. No recovery			DJV	1.10	1.50		
		3.00	*End of hole at 3.00 m*	83.00						

REMARKS

1. No groundwater encountered.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409250.00	334180.00	86.00
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	WS3
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	GeoTool Window Sampler	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.05	MADE GROUND: Asphalt.	85.95		DJV	0.10	0.90		
			MADE GROUND: Brown and grey sandy angular fine to coarse concrete and brick GRAVEL.							
		0.90		85.10						
		1.10	MADE GROUND: Dark brown and grey gravelly fine to coarse grained SAND. Gravel is angular to rounded fine to coarse quartz and concrete with asphalt fragments.	84.90		DJV	1.20	2.00		
			MADE GROUND: Firm brown sandy gravelly CLAY. Gravel is angular to rounded fine to medium brick and quartz.							
		2.70		83.30						
		3.00	Stiff red brown CLAY. (Mercia Mudstone Formation)	83.00						
			End of hole at 3.00 m							

REMARKS

1. No groundwater encountered.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409226.00	334151.00	86.00
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	WS4
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	GeoTool Window Sampler	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
			MADE GROUND: Short grass and moss over dark brown sandy angular to rounded fine to coarse concrete, limestone and clinker GRAVEL with ash.			DJV	0.10	0.50		
		0.50		84.50						
			MADE GROUND: Soft to firm brown sandy gravelly CLAY. Gravel is angular to rounded fine to coarse slag and quartz. Slight hydrocarbon odour noted.			DJV	1.00	1.50		
		1.50		83.50						
			Soft to firm red brown CLAY. (Mercia Mudstone Formation)							
		2.00		83.00						
			End of hole at 2.00 m							

REMARKS

1. No groundwater encountered.
2. Slight hydrocarbon odour noted between 0.5m bgl and 1.5m bgl.
3. Hole backfilled with arisings on completion.
4. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409199.00	334064.00	85.00
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	WS5
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	GeoTool Window Sampler	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
		0.05	MADE GROUND: Asphalt.	84.45		DJV	0.10	1.00		
			MADE GROUND: Dark brown clayey sandy angular to rounded fine to coarse brick, slag and quartz							
		2.00	*End of hole at 2.00 m*	82.50						

REMARKS

1. No groundwater encountered.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409223.00	334095.00	84.50
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	WS6
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	GeoTool Window Sampler	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater Strike	Groundwater Well	Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples Type	Samples Depth From	Samples Depth To	In-situ Testing Depth (m) (SPT Type)	In-situ Testing Result
			MADE GROUND: Short grass and moss over dark brown and dark grey sandy angular to rounded fine to coarse quartz, brick, slag and clinker GRAVEL with ash.			DJV	0.30	1.00		
		2.00	*End of hole at 2.00 m*	81.50						

REMARKS

1. No groundwater encountered.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409262.00	334088.00	83.50
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

Project Title	The Dove Way, Uttoxeter	**Hole Ref.**	WS7
Client	Clowes Securities & ESBC	**Project No.**	NTE285
Plant used	GeoTool Window Sampler	**Start Date** 07/07/2010	**End Date** 07/07/2010

Groundwater		Depth (m)	Description of Strata	Level (mAOD)	Legend	Samples			In-situ Testing	
Strike	Well					Type	Depth From	Depth To	Depth (m) (SPT Type)	Result
		0.05	MADE GROUND: Asphalt.	84.85						
		0.40	MADE GROUND: BROWN sandy angular to sub angular fine to coarse granite and concrete GRAVEL.	84.50						
			MADE GROUND: Red brown sandy angular fine to coarse brick GRAVEL.							
		1.60	MADE GROUND: Brown clayey angular fine to coarse quartz GRAVEL.	83.30		DJV	1.60	2.00		
		2.00	*End of hole at 2.00 m*	82.90						

REMARKS

1. No groundwater encountered.
2. No visual or olfactory evidence of contamination.
3. Hole backfilled with arisings on completion.
4. Hole position and elevation determined from the site topographical survey plan.

SOIL SAMPLE TYPE
D - 500g to 1kg Disturbed
B - 5kg to 20kg Disturbed
U - 100mm dia. Undisturbed
J - 250ml Amber Glass Jar
V - Glass Vial

IN-SITU TESTS
SV - Hand Shear Vane
HP - Hand Penetrometer
N = SPT blows over 300mm
S = Split Spoon Sampler
C = Solid Cone
PID - Photo Ionisation Detector (ppm)

GROUNDWATER
▽ Groundwater strike
▼ Standing groundwater level

EASTING	NORTHING	GROUND LEVEL
409234.00	334114.00	84.90
LOGGED BY	**SCALE**	**SHEET**
RTR	1:50	Sheet 1 of 1

BWB CONSULTING
Environmental Division
3-4 Kayes Walk
The Lace Market
Nottingham
NG1 1PY
Tel : 0115 9241100
Fax : 0115 9503966

APPENDIX 3

DRILLERS LOGS

Standpipe Installation

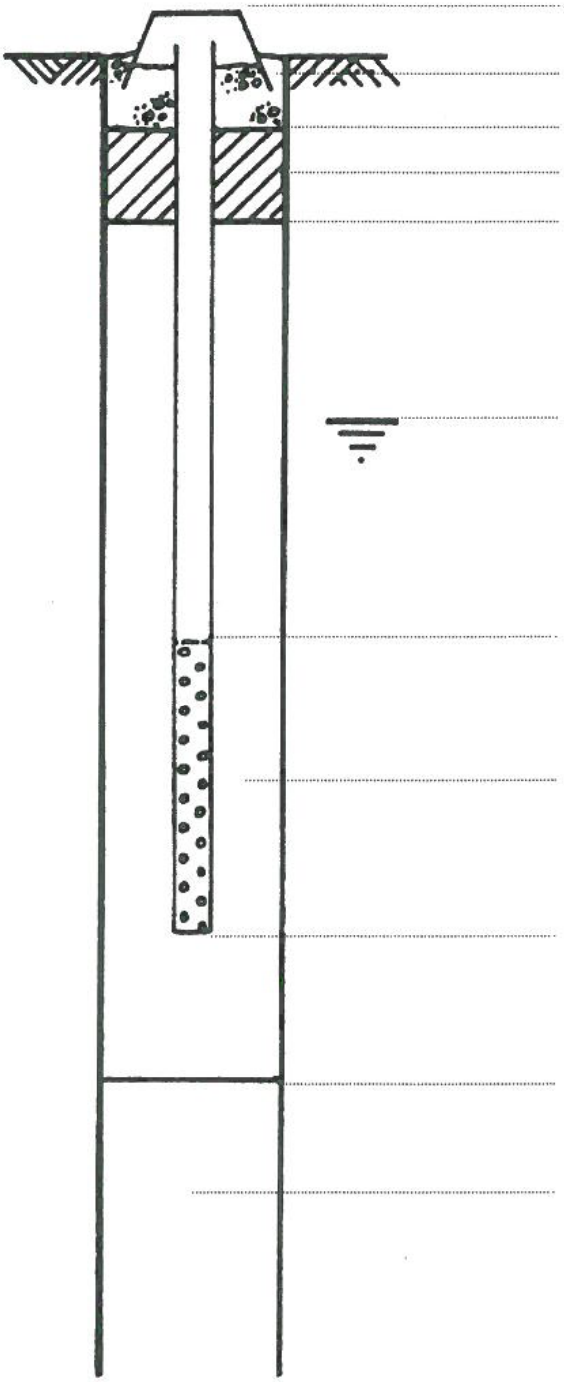
site UTTOXETER

date 6/7/10

driller A. CLARK

job no.

borehole 1



cover/gas tap	
concrete	0.10 m
top of seal	BENTONITE
seal material	
bottom of seal	1.00 m
standing water level prior to installation	NIL m
top of perforated section	1.00 m
filter material	PEA GRAVEL
bottom of standpipe	11.00 m
bottom of borehole/ ~~top of backfill~~	11.00 m
backfill material	

comments

Standpipe Installation

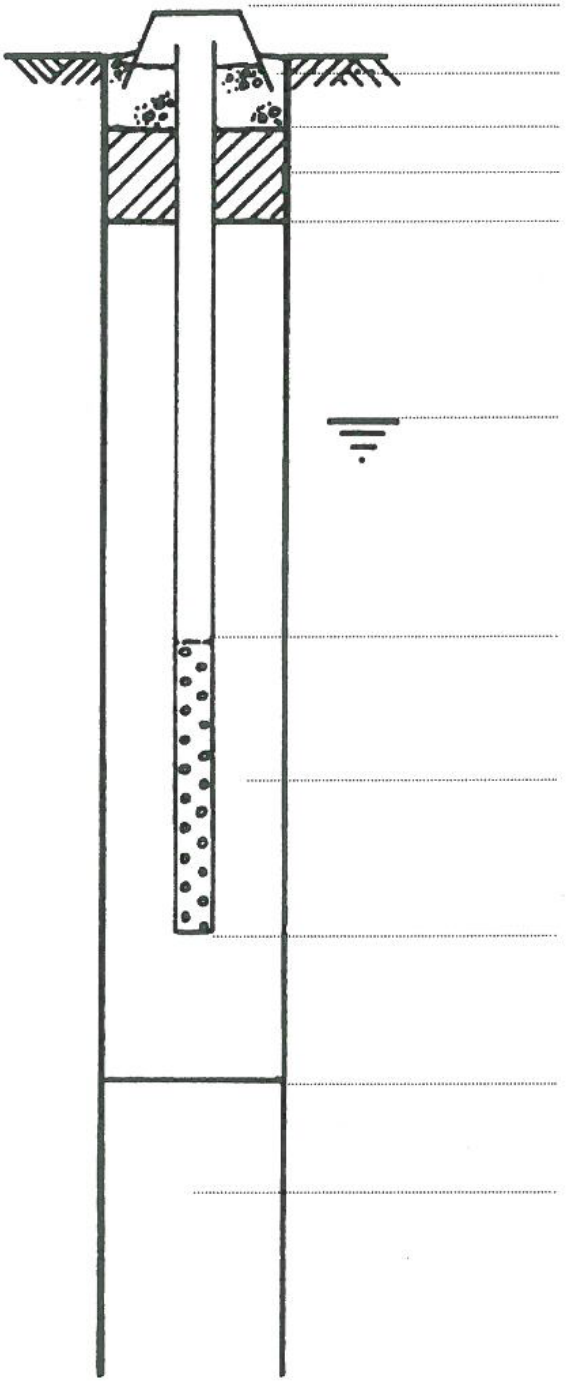
site UTTOXETER

date 7/7/10

driller A. CLARK.

job no.

borehole 2



cover/gas tap

concrete — 0.10 m

top of seal

seal material — BENTONITE

bottom of seal — 2.00 m

standing water level prior to installation — NIL m

top of perforated section — 2.00 m

filter material — PEA GRAVEL

bottom of standpipe — 9.50 m

bottom of borehole/ top ~~of backfill~~ — 9.50 m

backfill material

comments

Standpipe Installation

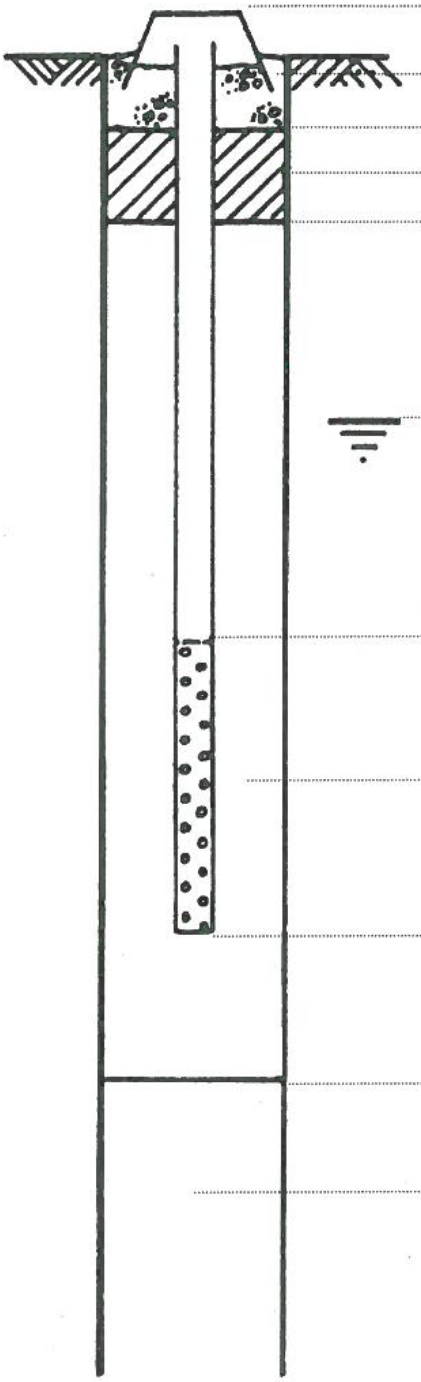
site UTTOXETER

date 8/7/10

driller A. CLARK

job no.

borehole 3



cover/gas tap

concrete — 0.10 m

top of seal — BENTONITE

seal material

bottom of seal — 2.00 m

standing water level prior to installation — NIL m

top of perforated section — 2.00 m

filter material — PEA GRAVEL

bottom of standpipe — 9.50 m

bottom of borehole/ ~~top of backfill~~ — 9.50 m

backfill material

comments

date	site	job no	borehole
06/07/2010	UTTOXETER		1

from	to	cosistency or density/colour/type
G/L	0.50	Topsoil
0.50	1.80	Ash pottery stone soil fill
1.80	2.00	Mottled grey alluvium with occasional gravel
2.00	5.00	Sand and gravel with occasional large cobbles

distrubed samples				undisturbed samples					penetration tests								
no.	depth.	no.	depth.	no.	depth.	casing depth	length	blows	no.	depth.	casing depth	water level	150 seating	75	75	75	75
D1	0.50	D16		U1					C1	1.0	Nil	Nil	1	0	1	1	0
D2	1.80	D17		U2					C2	2.0	2.0	Nil	4	6	7	4	4
D3	3.00	D18		U3					C3	3.0	3.0	2.1	7	5	6	5	7
D4		D19		U4					C4	4.0	4.0	3.8	8	4	6	8	8
D5		D20		U5					C5								
D6		D21		U6					S6								
D7		D22		U7					S7								
D8		D23		U8					S8								
D9		D24		U9					S9								
D10		D25		U10					S10								
D11		D26		U11					S11								
D12		D27		U12					S12								
D13		D28		U13					S13								
D14		D29		U14					S/C 14								
D15		D30		U15					S/C 15								

bulk samples					
no.	from	to	no.	from	to
B1	0.5	1.0	B11		
B2	4.0	4.5	B12		
B3			B13		
B4			B14		
B5			B15		
B6			B16		
B7			B17		
B8			B18		
B9			B19		
B10			B20		

ground water			
depth struck			
casing depth			
inflow rate			
rose to 5 min.			
rose to 10 min.			
rose to 15 min.			
sealed out at			
sample no.		w	w
sample depth			
water level at start of boring			NIL
water level at finish of boring			4.2
water level when casing removed			

water added			
from	2.0		
to	5.0		
litres	150		

		pit	chisel	
depth	from			
	to			
time	hours			

borehole complete?	No	
depth of borehole cased	5.00	
standpipe depth		
gastap - cover		

Remarks

Driller

Andy Clark

date	site	job no	borehole
07/07/2010	UTTOXETER		1

from	to	cosistency or density/colour/type
5.00	6.90	Sand and gravel with occasional large cobbles
6.90	7.80	Mixture of gravel and mercia mudstone
7.80	10.40	Sand and gravel with occasional large cobbles
10.40	11.00	Mercia mudstone

distrubed samples				undisturbed samples					penetration tests								
no.	depth.	no.	depth.	no.	depth.	casing depth	length	blows	no.	depth.	casing depth	water level	150 seating	75	75	75	75
D1		D16		U1					S1								
D2		D17		U2					C2								
D3		D18		U3					C3								
D4		D19		U4					C4								
D5		D20		U5					C5	5.0	5.0	4.6	11	9	9	5	5
D6		D21		U6					C6	6.5	6.5	5.9	9	10	5	4	5
D7		D22		U7					C7	8.0	8.0	4.8	5	3	5	4	3
D8		D23		U8					C8	9.5	9.5	4.9	8	6	7	7	9
D9		D24		U9					S9	11.0	10.5	Nil	19	18	21	11/20m	
D10		D25		U10					S10								
D11		D26		U11					S11								
D12		D27		U12					S12								
D13		D28		U13					S13								
D14		D29		U14					S/C 14								
D15		D30		U15					S/C 15								

bulk samples					
no.	from	to	no.	from	to
B1			B11		
B2			B12		
B3	6.9	7.4	B13		
B4			B14		
B5			B15		
B6			B16		
B7			B17		
B8			B18		
B9			B19		
B10			B20		

ground water			
depth struck	7.8		
casing depth	7.8		
inflow rate	Med		
rose to 5 min.			
rose to 10 min.			
rose to 15 min.	4.6		
sealed out at	10.4		
sample no.		w	w
sample depth			
water level at start of boring			4.6
water level at finish of boring			Nil
water level when casing removed			

water added			
from	5.0		
to	7.8		
litres	150		

		pit	chisel	
depth	from			
	to			
time	hours			

borehole complete?	Yes	
depth of borehole cased	10.50	
standpipe depth	11.0	
gastap - cover		

Remarks

Driller

Andy Clark

date	site	job no	borehole
07/07/2010	UTTOXETER		2

from	to	cosistency or density/colour/type
G/L	0.60	Topsoil
0.60	1.80	Ash soil pottery metal glass fill
1.80	2.20	Mottled brown alluvium
2.20	2.40	Clayey gravel
2.40	8.90	Sand and gravel with occasional large cobbles
8.90	9.50	Mercia mudstone

distrubed samples				undisturbed samples					penetration tests								
no.	depth.	no.	depth.	no.	depth.	casing depth	length	blows	no.	depth.	casing depth	water level	150 seating	75	75	75	75
D1	1.00	D16		U1					C1	1.0	Nil	Nil	1	0	0	1	0
D2	1.80	D17		U2					S2	2.0	1.5	Nil	2	1	3	4	4
D3	8.90	D18		U3					C3	3.0	3.0	2.7	15	10	9	10	11
D4		D19		U4					C4	4.0	4.0	3.4	8	6	7	6	5
D5		D20		U5					C5	5.0	5.0	4.1	5	3	4	4	4
D6		D21		U6					C6	6.5	6.5	4.3	6	3	3	4	3
D7		D22		U7					C7	8.0	8.0	4.3	18	11	12	12	11
D8		D23		U8					S8	9.5	9.0	Nil	17	12	13	15	13/30m
D9		D24		U9					S9								
D10		D25		U10					S10								
D11		D26		U11					S11								
D12		D27		U12					S12								
D13		D28		U13					S13								
D14		D29		U14					S/C 14								
D15		D30		U15					S/C 15								

bulk samples					
no.	from	to	no.	from	to
B1	3.0	3.5	B11		
B2	6.5	7.0	B12		
B3	9.0	9.5	B13		
B4			B14		
B5			B15		
B6			B16		
B7			B17		
B8			B18		
B9			B19		
B10			B20		

ground water			
depth struck	4.5		
casing depth	4.5		
inflow rate	Slow		
rose to 5 min.			
rose to 10 min.			
rose to 15 min.			
sealed out at	8.9		
sample no.		w	w
sample depth			
water level at start of boring			Nil
water level at finish of boring			Nil
water level when casing removed			

water added			
from	2.4		
to	4.5		
litres	150		

		pit	chisel	
depth	from			
	to			
time	hours			

borehole complete?	Yes	
depth of borehole cased	9.50	
standpipe depth	9.5	
gastap - cover		

Remarks

Driller

Andy Clark

date	site	job no	borehole
08/07/2010	UTTOXETER		3

from	to	cosistency or density/colour/type
G/L	0.10	Topsoil
0.10	0.40	Made ground
0.40	0.55	Concrete slab
0.55	2.60	Bottles ash soil metal fill
2.60	3.40	Mottled brown silty sandy clay
3.40	8.40	Sand and gravel with occasional large cobbles
8.40	9.50	Mercia mudstone

distrubed samples				undisturbed samples					penetration tests								
no.	depth.	no.	depth.	no.	depth.	casing depth	length	blows	no.	depth.	casing depth	water level	150 seating	75	75	75	75
D1	0.60	D16		U1					C1	1.0	1.0	Nil	1	0	1	1	1
D2	2.60	D17		U2					C2	2.0	1.5	Nil	1	1	0	0	1
D3	8.40	D18		U3					S3	3.0	3.0	Nil	4	2	3	3	3
D4		D19		U4					C4	4.0	4.0	Nil	4	3	3	3	4
D5		D20		U5					C5	5.0	5.0	Nil	5	3	4	3	5
D6		D21		U6					C6	6.5	6.5	5.4	8	7	7	6	6
D7		D22		U7					C7	8.0	8.0	5.7	10	9	7	7	8
D8		D23		U8					S8	9.5	8.8	Nil	18	15	18	17/30m	
D9		D24		U9					S9								
D10		D25		U10					S10								
D11		D26		U11					S11								
D12		D27		U12					S12								
D13		D28		U13					S13								
D14		D29		U14					S/C 14								
D15		D30		U15					S/C 15								

bulk samples					
no.	from	to	no.	from	to
B1	2.0	2.5	B11		
B2	4.0	4.5	B12		
B3	6.5	7.0	B13		
B4			B14		
B5			B15		
B6			B16		
B7			B17		
B8			B18		
B9			B19		
B10			B20		

ground water			
depth struck	5.6		
casing depth	4.5		
inflow rate	Slow		
rose to 5 min.			
rose to 10 min.			
rose to 15 min.	5.1		
sealed out at	8.4		
sample no.		w	w
sample depth			
water level at start of boring			Nil
water level at finish of boring			Nil
water level when casing removed			

water added			
from			
to			
litres			

		pit	chisel	
depth	from			
	to			
time	hours			

borehole complete?	Yes	
depth of borehole cased	8.80	
standpipe depth	9.5	
gastap - cover		

Remarks

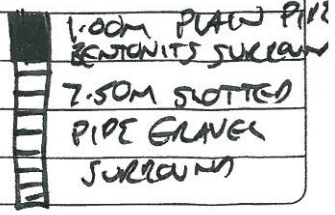
0.5hrs daywork while JCB digs out concrete slab.

Driller

Andy Clark

m | t | w | th | f | s | su | 07/07/10 | THE DOVE WAY, UTTOXETER | 7

from	to	consistency or density/colour/type
GL	1·70	HARD MADE GROUND BRICK FILL
1·70	4·50	DENSE SAND AND GRAVEL
4·50	6·20	REDDY BROWN MARL MUDSTONE
6·20	7·20	COBBLY GRAVEL
7·20	9·00	REDDY BROWN MARL MUDSTONE



disturbed samples

no.	depth	no.	depth
D 1	0·50	D 16	
D 2	1·80	D 17	
D 3	4·60	D 18	
D 4		D 19	
D 5		D 20	
D 6		D 21	
D 7		D 22	
D 8		D 23	
D 9		D 24	
D 10		D 25	
D 11		D 26	
D 12		D 27	
D 13		D 28	
D 14		D 29	
D 15		D 30	

undisturbed samples

no.	depth	casing depth	length	blows
U 1				
U 2				
U 3				
U 4				
U 5				
U 6				
U 7				
U 8				
U 9				
U 10				
U 11				
U 12				
U 13				
U 14				
U 15				

penetration tests

type/no	depth	casing depth	water level	150 seating	75	75	75	75
S/C 1	1·00	1·00	DRY	12/12	10	11	12	13
S/C 2	2·00	2·90	DRY	8/5	5	7	7	6
S/C 3	3·00	3·00	DRY	6/6	7	6	6	6
S/C 4	4·00	3·90	DRY	8/7	7	8	8	7
S/C 5	5·00	4·90	DRY	6/5	6	6	8	6
S/C 6	6·20	6·20	4·00	5/7	8	7	7	7
S/C 7	7·20	7·20	5·50	25 for 120MM	14	16	14	6 for 0M
S/C 8	9·00	8·50	DRY	25 for 100MM	32	18	for	30MM
S/C 9								
S/C 10								
S/C 11								
S/C 12								
S/C 13								
S/C 14								
S/C 15								

bulk samples

no.	from	to	no.	from	to
B 1	0·20	0·70	B 11		
B 2	2·00	2·50	B 12		
B 3	4·50	5·20	B 13		
B 4	8·00	8·50	B 14		
B 5			B 15		
B 6			B 16		
B 7			B 17		
B 8			B 18		
B 9			B 19		
B 10			B 20		

ground water

depth struck	6·20		
casing depth			
inflow rate	FAST		
rose to 5 min.			
rose to 10 min.			
rose to 15 min.	4·00		
sealed out at			
sample no.	W	W	W
sample depth			
water level at start of boring			DRY
water level at finish of boring			DRY
water level when casing removed			—

water added

from			
to			
litres			

chisel or pits

depth	from			
	to			
time	from			
	to			
	hours			

borehole complete?	(Yes) / No
depth of borehole cased	8·50
standpipe depth	8·50
piezotip - (gastap) - (cover)	

remarks

driller

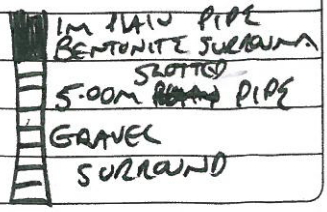
J·HORNER

Daily Site Report (1)

FOCUS BUSINESS FORMS LTD TEL (01953) 789277 (FAX 789088) FORM 19, R2 - OCT 98

m | t | w | th | f | s | su | 08/07/10 | THE DOVE WAY, UTTOXETER | | 8A

from	to	consistency or density/colour/type
GL	0.30	BRICK FILL MADE GROUND
0.30	2.30	MADE GROUND WITH CONCRETE BOULDERS
2.30	4.90	COBBLY SAND AND GRAVEL
4.10	6.50	REDDY BROWN MERCIAN MUDSTONE



disturbed samples

no.	depth	no.	depth
D 1	0.50	D 16	
D 2	3.00	D 17	
D 3	6.00	D 18	
D 4		D 19	
D 5		D 20	
D 6		D 21	
D 7		D 22	
D 8		D 23	
D 9		D 24	
D 10		D 25	
D 11		D 26	
D 12		D 27	
D 13		D 28	
D 14		D 29	
D 15		D 30	

undisturbed samples

no.	depth	casing depth	length	blows
U 1				
U 2				
U 3				
U 4				
U 5				
U 6				
U 7				
U 8				
U 9				
U 10				
U 11				
U 12				
U 13				
U 14				
U 15				

penetration tests

type/no	depth	casing depth	water level	150 seating	75	75	75	75
S/C 1	1.00	1.00	DRY	25 for 20mm	50	for	40mm	
S/C 2	2.00	2.00	DRY	25 for 0mm	43	7	for	10mm
S/C 3	3.00	3.00	DRY	7/8	7	7	7	8
S/C 4	4.00	3.90	DRY	6/8	6	8	8	7
S/C 5	5.00	5.00	DRY	25 for 90mm	18	17	15	for
S/D 6	6.50	5.00	DRY	25 for 100mm	16	15	19	for 50mm
S/C 7								
S/C 8								
S/C 9								
S/C 10								
S/C 11								
S/C 12								
S/C 13								
S/C 14								
S/C 15								

bulk samples

no.	from	to	no.	from	to
B 1	0.50	1.00	B 11		
B 2	3.00	3.50	B 12		
B 3	5.00	5.50	B 13		
B 4			B 14		
B 5			B 15		
B 6			B 16		
B 7			B 17		
B 8			B 18		
B 9			B 19		
B 10			B 20		

ground water

depth struck	4.10		
casing depth	3.90		
inflow rate	MED		
rose to 5 min.			
rose to 10 min.			
rose to 15 min.	3.60		
sealed out at			
sample no.	W	W	W
sample depth			
water level at start of boring			DRY
water level at finish of boring			DRY
water level when casing removed			—

water added

from			
to			
litres			

chisel or pits

depth	from	1.00		
	to	1.40		
time	from			
	to			
	hours	1/2		

borehole complete?	(Yes) / No
depth of borehole cased	5.00
standpipe depth	6.00
piezotip - (gastap) - (cover)	

remarks

driller

J. MORNER

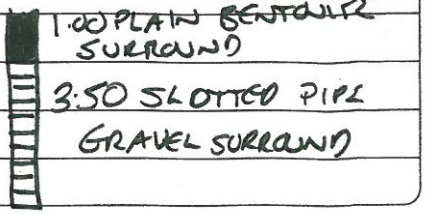
Daily Site Report (1)

m | t | w | th | f | s | su | 07/07/10 (08)

DOVE WAY UTTOXETER

9

from	to	consistency or density/colour/type
GL	0.30	TYPE 1 ROAD STONE
0.30	0.50	MADE GROUND BRICK FILL
0.50	2.20	ALLUVIUM FILL
2.20	3.30	GRAVELLY SANDY CLAY
3.30	5.50	REDDY BROWN MERCIAN MUDSTONE



disturbed samples

no.	depth	no.	depth
D 1	0.50	D 16	
D 2	2.50	D 17	
D 3	4.50	D 18	
D 4		D 19	
D 5		D 20	
D 6		D 21	
D 7		D 22	
D 8		D 23	
D 9		D 24	
D 10		D 25	
D 11		D 26	
D 12		D 27	
D 13		D 28	
D 14		D 29	
D 15		D 30	

undisturbed samples

no.	depth	casing depth	length	blows
U 1				
U 2				
U 3				
U 4				
U 5				
U 6				
U 7				
U 8				
U 9				
U 10				
U 11				
U 12				
U 13				
U 14				
U 15				

penetration tests

type/no	depth	casing depth	water level	150 seating	75	75	75	75
S/C 1	1.00	1.00	DRY	1 —	—	—	1	—
S/C 2	2.00	1.90	DRY	1 —	2	3	3	2
S/C 3	3.00	3.00	DRY	2/2	3	3	4	6
S/C 4	3.50	3.50	1.80	7/5	7	7	6	7
S/C 5	4.50	4.50	2.50	10/10	13	13	12	12 FOR 50mm
S/C 6	5.50	4.50	2.80	25 FOR 60mm	17	14	14	5 FOR 0mm
S/C 7								
S/C 8								
S/C 9								
S/C 10								
S/C 11								
S/C 12								
S/C 13								
S/C 14								
S/C 15								

bulk samples

no.	from	to	no.	from	to
B 1	0.50	1.00	B 11		
B 2	2.50	3.00	B 12		
B 3	5.00	5.50	B 13		
B 4			B 14		
B 5			B 15		
B 6			B 16		
B 7			B 17		
B 8			B 18		
B 9			B 19		
B 10			B 20		

ground water

depth struck	3.30		
casing depth	3.00		
inflow rate	NIL		
rose to 5 min.			
rose to 10 min.			
rose to 15 min.	1.80		
sealed out at			
sample no.	W	W	
sample depth			
water level at start of boring			DRY
water level at finish of boring			2.80
water level when casing removed			—

water added

from			
to			
litres			

chisel or pits

depth	from			
	to			
time	from			
	to			
	hours			

borehole complete?	(Yes) / No
depth of borehole cased	4.50
standpipe depth	4.50
piezotip - (gastap) - (cover)	

remarks

driller

J. HORNER

Daily Site Report (1)

APPENDIX 4

GAS AND GROUNDWATER MONITORING RESULTS

BWB GAS AND GROUNDWATER MONITORING

Site:	The Dove Way, Uttoxeter
Client:	Clowes Securities & ESBC
Job No.:	NTE285
Date:	15 July 2010
Start / End Time:	10:30am / 3:30pm
Engineer:	RTR
Installation Details:	50mm HDPE Standpipe and Gas Valve
Monitoring Equipment:	GA2000 Gas Analyser, GF60 Flow Monitor, MiniRAE PID & Dip Meter

Weather Conditions	**Start**	**End**
(Dry / Raining)	Dry	Showers
Cloud Cover	7/8	7/8
Wind strength (m/s)	7.7	6.7
Wind Direction (from)	SW	SW
Temperature (°C)	18.0	19.0
Barometric Pressure (mb)	988	992
(Rising / Falling)	Rising	Rising

Ref.	**Flow**	**Methane**		**Carbon Dioxide**	**Oxygen**	**Hydrogen Sulphide**	**Carbon Monoxide**	**PID**	**Depth to water**	**Base of Response Zone**	**Groundwater elevation**	**Notes**
	(l/hr)	**(%v/v)**	**(%LEL)**	**(%v/v)**	**(%v/v)**	**(ppm)**	**(ppm)**	**(ppm)**	**(m)**	**(m)**	**(mAOD)**	
BH1	<0.1	<0.1	<2	3.1	17.3	<1	<1	NR	4.35	11.35	76.25	
BH2	0.2	0.1	2.0	12.1	6.5	<1	<1	NR	4.11	9.80	76.23	
BH3	0.2	0.2	4.0	12.8	2.7	<1	<1	NR	4.18	9.93	76.38	
BH4	<0.1	<0.1	<2	0.2	19.8	<1	<1	NR	1.39	6.50	76.03	
BH5	<0.1	<0.1	<2	0.3	20.2	<1	<1	NR	2.55	6.30	76.16	Cover vandalised
BH6	0.2	<0.1	<2	0.6	19.8	<1	<1	NR	3.54	5.95	77.05	
BH7	<0.1	0.1	2.0	3.1	17.4	<1	<1	NR	3.24	8.95	81.50	
BH8	0.4	<0.1	<2	0.6	19.8	<1	<1	NR	3.49	5.95	79.82	
BH9	<0.1	0.1	2.0	2.7	17.2	<1	<1	NR	1.88	4.30	79.29	

LEL Lower Explosive limit (100% LEL = 5% Flammable gas)
NR Not recorded
Dry No Groundwater Detected

BWB CONSULTING

BWB GAS AND GROUNDWATER MONITORING

Site:	The Dove Way, Uttoxeter
Client:	Clowes Securities & ESBC
Job No.:	NTE285
Date:	22 July 2010
Start / End Time:	9:50am / 2:10pm
Engineer:	RTR
Installation Details:	50mm HDPE Standpipe and Gas Valve
Monitoring Equipment:	GA2000 Gas Analyser, GF60 Flow Monitor, MiniRAE PID & Dip Meter

Weather Conditions	**Start**	**End**
(Dry / Raining)	Dry	Lt showers
Cloud Cover	8/8	8/8
Wind strength (m/s)	SE	E
Wind Direction (from)	2.1	4.6
Temperature (°C)	17.0	19.0
Barometric Pressure (mb)	1000	1001
(Rising / Falling)	Rising	Rising

Ref.	**Flow**	**Methane**		**Carbon Dioxide**	**Oxygen**	**Hydrogen Sulphide**	**Carbon Monoxide**	**PID**	**Depth to water**	**Base of Response Zone**	**Groundwater elevation**	**Notes**
	(l/hr)	**(%v/v)**	**(%LEL)**	**(%v/v)**	**(%v/v)**	**(ppm)**	**(ppm)**	**(ppm)**	**(m)**	**(m)**	**(mAOD)**	
BH1	-0.2	0.1	2.0	6.5	14.5	<1	<1	<1	4.47	11.35	76.13	
BH2	0.1	<0.1	<2.0	2.2	17.8	<1	<1	<1	4.24	9.80	76.10	
BH3	-0.1	<0.1	<2.0	13.6	2.7	<1	<1	<1	NR	9.93		
BH4	<0.1	<0.1	<2.0	3.0	15.2	<1	<1	<1	1.44	6.50	75.98	
BH5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		Standpipe vandalised
BH6	<0.1	<0.1	<2.0	0.7	19.9	<1	<1	<1	3.61	5.95	75.10	
BH7	<0.1	<0.1	<2.0	0.9	19.4	<1	<1	<1	3.29	4.30	81.45	
BH8	<0.1	<0.1	<2.0	0.8	19.6	<1	<1	<1	3.55	5.95	79.76	
BH9	<0.1	<0.1	<2.0	1.9	17.5	<1	<1	<1	1.82	8.95	79.35	

LEL Lower Explosive limit (100% LEL = 5% Flammable gas)
NR Not recorded

BWB GAS AND GROUNDWATER MONITORING

Site:	The Dove Way, Uttoxeter
Client:	Clowes Securities & ESBC
Job No.:	NTE285
Date:	29th September 2010
Start / End Time:	9:20am/10:40am
Engineer:	RTR
Installation Details:	50mm HDPE Standpipe and Gas Valve
Monitoring Equipment:	GA2000 Gas Analyser, GF60 Flow Monitor, MiniRAE PID & Dip Meter

Weather Conditions	**Start**	**End**
(Dry / Raining)	Dry	Lt Showers
Cloud Cover	8/8	8/8
Wind strength (m/s)	6.2	4.1
Wind Direction (from)	NW	W
Temperature (°C)	18.0	17.0
Barometric Pressure (mb)	1006	1007
(Rising / Falling)	Rising	Rising

Ref.	**Flow**	**Methane**		**Carbon Dioxide**	**Oxygen**	**Hydrogen Sulphide**	**Carbon Monoxide**	**PID**	**Depth to water**	**Base of Response Zone (m)**	**Groundwater elevation (mAOD)**	**Notes**
	(l/hr)	**(%v/v)**	**(%LEL)**	**(%v/v)**	**(%v/v)**	**(ppm)**	**(ppm)**	**(ppm)**	**(m)**			
BH1	<0.1	<0.1	<2.0	6.3	13.7	<1	<1	2.80	NR	NR		
BH2	<0.1	<0.1	<2.0	12.7	7.0	<1	<1	<0.1	NR	NR		
BH3	<0.1	<0.1	<2.0	13.9	4.5	<1	<1	6.50	NR	NR		
BH4	<0.1	<0.1	<2.0	1.9	18.3	<1	<1	3.70	NR	NR		
BH5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		Vandalised
BH6	<0.1	<0.1	<2.0	0.3	20.4	<1	<1	1.0	NR	NR		
BH7	<0.1	<0.1	<2.0	2.0	19.0	<1	<1	<0.1	NR	NR		
BH8	<0.1	<0.1	<2.0	<0.1	20.5	<1	<1	<0.1	NR	NR		
BH9	<0.1	<0.1	<2.0	2.6	17.0	<1	<1	<0.1	NR	NR		

LEL Lower Explosive limit (100% LEL = 5% Flammable gas)
NR Not recorded

BWB CONSULTING

BWB GAS AND GROUNDWATER MONITORING

Site:	The Dove Way, Uttoxeter
Client:	Clowes Securities & ESBC
Job No.:	NTE285
Date:	05 August 2010
Start / End Time:	10:30am/ 12:10pm
Engineer:	RTR
Installation Details:	50mm HDPE Standpipe and Gas Valve
Monitoring Equipment:	GA2000 Gas Analyser, GF60 Flow Monitor, MiniRAE PID & Dip Meter

Weather Conditions	**Start**	**End**
(Dry / Raining)	Dry	Dry
Cloud Cover	7/8	7/8
Wind strength (m/s)	5.0	4.6
Wind Direction (from)	NW	NW
Temperature (°C)	18.0	19.0
Barometric Pressure (mb)	999	999
(Rising / Falling)	Rising	Rising

Ref.	**Flow**	**Methane**		**Carbon Dioxide**	**Oxygen**	**Hydrogen Sulphide**	**Carbon Monoxide**	**PID**	**Depth to water**	**Base of Response Zone**	**Groundwater elevation**	**Notes**
	(l/hr)	**(%v/v)**	**(%LEL)**	**(%v/v)**	**(%v/v)**	**(ppm)**	**(ppm)**	**(ppm)**	**(m)**	**(m)**	**(mAOD)**	
BH1	<0.1	<0.1	<0.1	7.3	13.3	<1	<1	NR	4.47	NR	76.13	
BH2	1.3	<0.1	<0.1	13.0	7.5	<1	<1	NR	4.22	NR	76.12	
BH3	0.9	<0.1	<0.1	17.2	2.4	<1	<1	NR	4.30	NR	76.26	
BH4	<0.1	<0.1	<0.1	1.2	18.7	<1	<1	NR	1.43	NR	75.99	
BH5	-	-	-	-	-	-	-	-		-		Vandalised
BH6	<0.1	<0.1	<0.1	0.7	19.8	<1	<1	NR	3.63	NR	76.96	
BH7	0.3	<0.1	<0.1	2.2	18.3	<1	<1	NR	3.24	NR	81.50	
BH8	0.2	<0.1	<0.1	<0.1	20.6	<1	<1	NR	3.52	NR	79.79	
BH9	<0.1	<0.1	<0.1	1.0	19.6	<1	<1	NR	1.76	NR	79.41	

LEL Lower Explosive limit (100% LEL = 5% Flammable gas)
NR Not recorded

BWB CONSULTING

APPENDIX 5

SOIL CHEMICAL LABORATORY TESTING

ALcontrol Laboratories

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: mkt@alcontrol.com
Website: www.alcontrol.com

BWB Consulting
3-4 Kayes Walk
The Lace Market
Nottingham
Nottinghamshire
NG1 1PY

Attention: Richard Robinson

CERTIFICATE OF ANALYSIS

Date:	21 July 2010		
Customer:	H_BWB_NTT-84		
Sample Delivery Group (SDG):	100712-18	**Report No.:**	91087
Your Reference:			
Location:	THE DOVE WAY-NTE285		

We received 34 samples on Monday July 12, 2010 and 25 of these samples were scheduled for analysis which was completed on Wednesday July 21, 2010. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Iain Swinton

Operations Director - Land UK & Ireland

Validated

ALcontrol Laboratories Analytical Services

SDG:	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Sampled Date
1804927	TP109	2.50	08/07/2010
1805000	TP114	0.50	08/07/2010
1805066	TP116	3.00	08/07/2010
1805082	TP117	0.50	08/07/2010
1805100	TP117	1.80	08/07/2010
1805350	TP119	0.50	08/07/2010
1805365	TP119	3.20	08/07/2010
1805387	TP120	0.80	08/07/2010
1805433	TP120	3.00	08/07/2010
1805459	TP121	0.90	07/07/2010
1805546	TP123	2.00	07/07/2010
1805575	TP134	0.30	08/07/2010
1805596	TP135	0.90	08/07/2010
1805613	TP135	3.10	08/07/2010
1805646	TP136	0.50	08/07/2010
1805675	TP136	1.00	08/07/2010
1805701	TP137	0.70	08/07/2010
1805736	TP137	2.00	08/07/2010
1805932	WS3	0.10 - 0.90	07/07/2010
1806100	WS3	1.20 - 2.00	07/07/2010
1806152	WS4	0.10 - 0.50	07/07/2010
1806221	WS4	1.00 - 1.50	07/07/2010
1806285	WS5	0.10 - 1.00	07/07/2010
1806335	WS7	1.60 - 2.00	07/07/2010

Only received samples which have had analysis scheduled will be shown on the following pages.

Validated

ALcontrol Laboratories Analytical Services

SDG:	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)	1804927	1805000	1805066	1805082	1805100	1805350	1805365	1805387	1805433	1805459	1805546	1805575	1805596	1805613	1805646	1805675	1805701	1805736	1805932	
Customer Sample Ref.	TP109	TP114	TP116	TP117	TP117	TP119	TP119	TP120	TP120	TP121	TP123	TP134	TP135	TP135	TP136	TP136	TP137	TP137	WS3	
Depth (m)	2.50	0.50	3.00	0.50	1.80	0.50	3.20	0.80	3.00	0.90	2.00	0.30	0.90	3.10	0.50	1.00	0.70	2.00	0.10 - 0.90	
Container	400g Tub	60g VOC	1kg TUB	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	1kg TUB	250g Amber Jar	60g VOC	250g Amber Jar	400g Tub	250g Amber Jar	60g VOC	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	1kg TUB
Anions by Kone (w)	All					X		X			X		X		X				X	X
Asbestos Containing Material Screen	All		X			X						X			X				X	
Boron Water Soluble	All		X	X	X	X	X	X	X		X		X	X	X	X	X	X		X
CEN Readings	All					X		X			X	X			X				X	X
Cyanide Complex/Free/Total/Thiocyan	All					X		X			X	X			X				X	X
Cyanides Complex/Free/Total/Thiocya	Cyanide, Complex		X		X	X		X	X		X		X		X	X	X		X	X
	Cyanide, Free		X		X	X		X	X		X		X		X	X	X		X	X
	Cyanide, Total		X		X	X		X	X		X		X		X	X	X		X	X
Dissolved Metals by ICP-MS	All					X		X			X	X			X				X	X
EPH CWG (Aliphatic) GC (S)	All	X					X		X					X			X			
EPH CWG (Aromatic) GC (S)	All	X					X		X					X			X			
GRO BTEX MTBE GC (S)	All		X					X		X						X				
Mercury Dissolved	All					X		X			X	X			X				X	X
Metals by iCap-OES (Soil)	Arsenic			X	X	X	X	X	X	X		X		X	X	X	X	X	X		X
	Barium			X	X	X	X	X	X	X		X		X	X	X	X	X	X		X
	Beryllium			X	X	X	X	X	X	X		X		X	X	X	X	X	X		X
	Cadmium			X	X	X	X	X	X	X		X		X	X	X	X	X	X		X
	Chromium			X	X	X	X	X	X	X		X		X	X	X	X	X	X		X
	Copper			X	X	X	X	X	X	X		X		X	X	X	X	X	X		X
	Lead			X	X	X	X	X	X	X		X		X	X	X	X	X	X		X
	Mercury			X	X	X	X	X	X	X		X		X	X	X	X	X	X		X
	Nickel			X	X	X	X	X	X	X		X		X	X	X	X	X	X		X
	Selenium			X	X	X	X	X	X	X		X		X	X	X	X	X	X		X

1806335													Total
WS7													
1.60 - 2.00													
60g VOC	400g Tub	250g Amber Jar	60g VOC	250g Amber Jar	1kg TUB	400g Tub	250g Amber Jar	60g VOC	400g Tub	250g Amber Jar	250g Amber Jar		
					X								0 10
					X								0 6
	X	X		X			X		X				0 21
					X								0 10
					X								0 10
	X	X		X	X				X				0 21
	X	X		X	X				X				0 21
	X	X		X	X				X				0 21
					X								0 10
	X	X		X			X		X				0 8
	X	X		X			X		X				0 8
X			X					X			X		0 8
					X								0 10
	X	X		X			X		X				0 21
	X	X		X			X		X				0 21
	X	X		X			X		X				0 21
	X	X		X			X		X				0 21
	X	X		X			X		X				0 21
	X	X		X			X		X				0 21
	X	X		X			X		X				0 21
	X	X		X			X		X				0 21
	X	X		X			X		X				0 21

Validated

ALcontrol Laboratories Analytical Services

SDG:	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

		1804927		1805000		1805066		1805082		1805100		1805350			1805365		1805387			1805433		1805459		1805546		1805575		1805596			1805613		1805646		1805675		1805701			1805736		1805932		
		TP109		TP114		TP116		TP117		TP117		TP119			TP119		TP120			TP120		TP121		TP123		TP134		TP135			TP135		TP136		TP136		TP137			TP137		WS3		
		2.50		0.50		3.00		0.50		1.80		0.50			3.20		0.80			3.00		0.90		2.00		0.30		0.90			3.10		0.50		1.00		0.70			2.00		0.10 - 0.90		
		400g Tub	60g VOC	1kg TUB	250g Amber Jar	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	1kg TUB	250g Amber Jar	60g VOC	250g Amber Jar	400g Tub	1kg TUB	250g Amber Jar	60g VOC	250g Amber Jar	400g Tub	1kg TUB	250g Amber Jar	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	60g VOC	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	60g VOC	250g Amber Jar	400g Tub	1kg TUB	250g Amber Jar	250g Amber Jar
Metals by iCap-OES (Soil)	Vanadium				X	X		X					X		X			X		X				X				X			X		X		X		X			X			X	X
	Zinc				X	X		X					X		X			X		X				X				X			X		X		X		X			X			X	X
PAH by GCMS	All				X	X		X					X		X			X		X				X				X			X		X		X		X			X			X	X
pH	All			X			X		X			X				X	X				X				X				X			X		X		X		X			X	X		
pH Value	All										X					X						X			X		X					X									X	X		
Phenols by HPLC (S)	All			X			X		X			X				X	X				X				X				X			X		X		X		X			X	X		
Sample description	All	X			X	X		X		X			X		X			X		X			X	X		X		X			X		X		X		X			X			X	X
Total Organic Carbon	All				X	X		X					X		X			X		X				X				X			X		X		X		X			X			X	X
Total Sulphur	All				X	X		X					X		X			X		X				X				X			X		X		X		X			N			X	X
TPH C6-C40 Value of soil	All				X	X		X					X		X			X		X				X				X			X		X		X		X			X			X	X
TPH CWG GC (S)	All	X											X					X										X									X							
VOC MS (S)	All																																						X					
Water Soluble Sulphate 2:1	All				X	X		X					X		X			X		X				X				X			X		X		X		X			X			X	X

1806335	WS7	1.60 - 2.00	60g VOC			0
			400g Tub			21
			250g Amber Jar	X	X	
1806302	WS6	0.30 - 1.00	60g VOC			0
			250g Amber Jar	X	X	21
			1kg TUB			
			400g Tub			0
			250g Amber Jar	X	X	21
1806285	WS5	0.10 - 1.00	60g VOC			0
			400g Tub			10
			250g Amber Jar			
1806221	WS4	1.00 - 1.50	60g VOC			0
			400g Tub	X	X	21
			250g Amber Jar			
1806152	WS4	0.10 - 0.50	250g Amber Jar	X	X	0
						25
				X	X	
						0
				X	X	21
				X	X	1
						20
				X	X	
						0
				X	X	21
					X	0
						8
						0
						1
				X	X	0
						21

Validated

ALcontrol Laboratories Analytical Services

SDG:	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

Sample Descriptions

Grain Sizes:
<0.063mm very fine,
0.063mm - 0.1mm fine,
0.1mm - 2mm medium,
2mm - 10mm coarse,
>10mm very coarse

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions
1804927	TP109	2.50	Dark Brown	Sand	0.1 - 2 mm	Stones
1805000	TP114	0.50	Dark Brown	Silt Loam	0.063 - 0.1 mm	Stones
1805066	TP116	3.00	Light Brown	Sandy Clay	0.1 - 2 mm	Stones
1805082	TP117	0.50	Dark Brown	Silty Clay	0.063 - 0.1 mm	N/A
1805100	TP117	1.80	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones
1805350	TP119	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones
1805365	TP119	3.20	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones
1805387	TP120	0.80	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones
1805433	TP120	3.00	Light Brown	Silty Sand	0.063 - 0.1 mm	Stones
1805459	TP121	0.90	Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones
1805546	TP123	2.00	Dark Brown	Clay	<0.063 mm	N/A
1805575	TP134	0.30	Light Brown	Silty Clay	0.063 - 0.1 mm	Stones
1805596	TP135	0.90	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones
1805613	TP135	3.10	Light Brown	Silty Clay	0.063 - 0.1 mm	None
1805646	TP136	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones
1805675	TP136	1.00	Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones
1805701	TP137	0.70	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones
1805736	TP137	2.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	None
1805932	WS3	0.10 - 0.90	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones
1806100	WS3	1.20 - 2.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones
1806152	WS4	0.10 - 0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones
1806221	WS4	1.00 - 1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones
1806285	WS5	0.10 - 1.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones
1806302	WS6	0.30 - 1.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones
1806335	WS7	1.60 - 2.00	Dark Brown	Sand	0.1 - 2 mm	Stones

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Validated

ALcontrol Laboratories Analytical Services

SDG:	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

Test Completion dates

SDG reference: 100712-18

Lab Sample No(s)	1804927	1805000	1805066	1805082	1805100	1805350	1805365	1805387	1805433	1805459	1805546	1805575
Customer Sample Ref.	TP109	TP114	TP116	TP117	TP117	TP119	TP119	TP120	TP120	TP121	TP123	TP134
Depth	2.50	0.50	3.00	0.50	1.80	0.50	3.20	0.80	3.00	0.90	2.00	0.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Anions by Kone (w)					19/07/2010		20/07/2010			19/07/2010	20/07/2010	19/07/2010
Asbestos Containing Material Screen		16/07/2010				16/07/2010						16/07/2010
Boron Water Soluble		20/07/2010	20/07/2010	20/07/2010		20/07/2010	20/07/2010	20/07/2010	20/07/2010		20/07/2010	
CEN Readings					19/07/2010		20/07/2010			19/07/2010	20/07/2010	19/07/2010
Cyanide Comp/Free/Total/Thiocyanate		19/07/2010	19/07/2010	19/07/2010	20/07/2010	19/07/2010	21/07/2010	19/07/2010	19/07/2010	20/07/2010	21/07/2010	20/07/2010
Dissolved Metals by ICP-MS					21/07/2010		21/07/2010			21/07/2010	21/07/2010	21/07/2010
EPH CWG (Aliphatic) GC (S)	20/07/2010					20/07/2010		21/07/2010				
EPH CWG (Aromatic) GC (S)	20/07/2010					20/07/2010		21/07/2010				
GRO BTEX MTBE GC (S)	20/07/2010					20/07/2010		20/07/2010				
Mercury Dissolved					20/07/2010		20/07/2010			20/07/2010	20/07/2010	20/07/2010
Metals by iCap-OES (Soil)		21/07/2010	20/07/2010	19/07/2010		20/07/2010	19/07/2010	19/07/2010	19/07/2010		19/07/2010	
Moisture Meter					17/07/2010		16/07/2010			16/07/2010	16/07/2010	17/07/2010
PAH by GCMS		19/07/2010	19/07/2010	19/07/2010		19/07/2010	20/07/2010	19/07/2010	19/07/2010		19/07/2010	
pH		19/07/2010	16/07/2010	16/07/2010		19/07/2010	16/07/2010	19/07/2010	19/07/2010		16/07/2010	
pH Value					20/07/2010		20/07/2010			20/07/2010	20/07/2010	20/07/2010
Phenols by HPLC (S)		19/07/2010	19/07/2010	19/07/2010		19/07/2010	19/07/2010	21/07/2010	21/07/2010		19/07/2010	
Sample description	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010
Total Organic Carbon		19/07/2010	19/07/2010	19/07/2010		19/07/2010	19/07/2010	19/07/2010	19/07/2010		19/07/2010	
Total Sulphur		19/07/2010	19/07/2010	19/07/2010		19/07/2010	19/07/2010	19/07/2010	19/07/2010		19/07/2010	
TPH c6-40 Value of soil		20/07/2010	20/07/2010	20/07/2010		20/07/2010	20/07/2010	20/07/2010	20/07/2010		20/07/2010	
TPH CWG GC (S)	21/07/2010					21/07/2010		21/07/2010				
VOC MS (S)												
Water Soluble Sulphate 2:1		20/07/2010	20/07/2010	20/07/2010		20/07/2010	20/07/2010	20/07/2010	20/07/2010		20/07/2010	

1805596	1805613	1805646	1805675	1805701	1805736	1805932	1806100	1806152	1806221	1806285	1806302	1806335
TP135	TP135	TP136	TP136	TP137	TP137	WS3	WS3	WS4	WS4	WS5	WS6	WS7
0.90	3.10	0.50	1.00	0.70	2.00	0.10 - 0.90	1.20 - 2.00	0.10 - 0.50	1.00 - 1.50	0.10 - 1.00	0.30 - 1.00	1.60 - 2.00
SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	20/07/2010				19/07/2010	19/07/2010		19/07/2010			19/07/2010	
		16/07/2010				16/07/2010					16/07/2010	
20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
	20/07/2010				19/07/2010	19/07/2010		19/07/2010			19/07/2010	
19/07/2010	21/07/2010	19/07/2010	19/07/2010	19/07/2010	20/07/2010	20/07/2010	19/07/2010	20/07/2010	19/07/2010	19/07/2010	20/07/2010	19/07/2010
	21/07/2010				21/07/2010	21/07/2010		21/07/2010			21/07/2010	
20/07/2010				20/07/2010					21/07/2010		21/07/2010	21/07/2010
20/07/2010				20/07/2010					21/07/2010		21/07/2010	21/07/2010
20/07/2010				20/07/2010					20/07/2010		20/07/2010	20/07/2010
	20/07/2010				20/07/2010	20/07/2010		20/07/2010			20/07/2010	
20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
	16/07/2010				17/07/2010	16/07/2010		16/07/2010			16/07/2010	
19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010
16/07/2010	16/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010
	20/07/2010				20/07/2010	20/07/2010		20/07/2010			20/07/2010	
19/07/2010	20/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	19/07/2010	21/07/2010	19/07/2010	21/07/2010	21/07/2010	19/07/2010	21/07/2010
16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010
19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010
19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010		19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010
20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
21/07/2010				21/07/2010					21/07/2010		21/07/2010	21/07/2010
				20/07/2010								
20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP114	TP116	TP117	TP117	TP119
			Depth (m)	0.50	3.00	0.50	1.80	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	08/07/2010	08/07/2010	08/07/2010	08/07/2010	08/07/2010
			Date Received	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18	100712-18	100712-18	100712-18
			Lab Sample No.(s)	1805000	1805066	1805082	1805100	1805350
Moisture	%	PM114					26.2	
Moisture content ratio	%	PM114					35.4	
Dry matter content ratio	%	PM114					73.9	
Asbestos Containing Material Screen	-	TM001		No ACM Detected				No ACM Detected
Phenols, Total monohydric	<0.22 mg/kg	TM062 (S)		<0.22 M	<0.22 M	<0.22 M		<0.22 M
Sulphate, 2:1 water soluble	<0.003 g/l	TM098		0.463 M	0.125 M	0.0109 M		1.49 M
Sulphur, Total	<0.02 %	TM132		0.318 #	0.033 #	0.031 #		0.237 #
Fraction Organic Carbon (FOC)	<0.002 -	TM132		0.147 #	0.00372 #	0.0178 #		0.122 #
pH	1 pH Units	TM133		4.93 M	7.16 M	6.59 M		7.52 M
Cyanide, Total	<1 mg/kg	TM153		3.51 M	<1 M	<1 M		<1 M
Cyanide, Free	<1 mg/kg	TM153		<1	<1	<1		<1
Cyanide, Complex	<1 mg/kg	TM153		2.89	<1	<1		<1
TPH >C6-C40	<10 mg/kg	TM154		2370 #	<10 #	121 #		1970 #
Arsenic	<0.6 mg/kg	TM181		22.2 M	6.27 M	9.76 M		42.9 M
Barium	<0.6 mg/kg	TM181		675 #	99.2 #	262 #		251 #
Beryllium	<0.01 mg/kg	TM181		1.97 M	0.632 M	1.39 M		5.26 M
Cadmium	<0.02 mg/kg	TM181		22.2 M	0.333 M	0.618 M		0.991 M
Chromium	<0.9 mg/kg	TM181		104 M	12.3 M	34.6 M		33.4 M
Copper	<1.4 mg/kg	TM181		468 M	11.8 M	35.6 M		187 M
Lead	<0.7 mg/kg	TM181		339 M	18.2 M	64.2 M		379 M
Mercury	<0.14 mg/kg	TM181		1.82 M	<0.14 M	<0.14 M		<0.14 M
Nickel	<0.2 mg/kg	TM181		57.1 M	13.1 M	31.5 M		69.9 M
Selenium	<1 mg/kg	TM181		9.95 #	<1 #	1.5 #		1.98 #
Vanadium	<0.2 mg/kg	TM181		24 #	16.6 #	36.2 #		41.7 #
Zinc	<1.9 mg/kg	TM181		388 M	62 M	192 M		542 M
Boron, water soluble	<1 mg/kg	TM222		4.03 M	1.45 M	<1 M		6.71 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP114	TP116	TP117	TP119
			Depth (m)	0.50	3.00	0.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	08/07/2010	08/07/2010	08/07/2010	08/07/2010
			Date Received	12/07/2010	12/07/2010	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18	100712-18	100712-18
			Lab Sample No.(s)	1805000	1805066	1805082	1805350
Naphthalene-d8 % recovery**	%	TM218		107	110	103	112
Acenaphthene-d10 % recovery**	%	TM218		109	112	100	113
Phenanthrene-d10 % recovery**	%	TM218		111	115	104	117
Chrysene-d12 % recovery**	%	TM218		97.2	101	85.8	99.9
Perylene-d12 % recovery**	%	TM218		105	115	87.4	108
Naphthalene	<9 µg/kg	TM218		516 M	<9 M	<9 M	828 M
Acenaphthylene	<12 µg/kg	TM218		64.4 M	<12 M	<12 M	204 M
Acenaphthene	<8 µg/kg	TM218		21.4 M	<8 M	<8 M	2540 M
Fluorene	<10 µg/kg	TM218		23.9 M	<10 M	<10 M	3120 M
Phenanthrene	<15 µg/kg	TM218		580 M	22.7 M	51.5 M	6370 M
Anthracene	<16 µg/kg	TM218		191 M	<16 M	<16 M	6380 M
Fluoranthene	<17 µg/kg	TM218		705 M	42.3 M	89.7 M	28900 M
Pyrene	<15 µg/kg	TM218		550 M	35.5 M	76.2 M	21400 M
Benz(a)anthracene	<14 µg/kg	TM218		449 M	31.5 M	54.3 M	8380 M
Chrysene	<10 µg/kg	TM218		431 M	22.4 M	63.9 M	7090 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1550 M	38.6 M	77.8 M	8880 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		410 M	15.3 M	29.8 M	3750 M
Benzo(a)pyrene	<15 µg/kg	TM218		458 M	27.9 M	38.4 M	7310 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		728 M	<18 M	33.8 M	3770 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		166 M	<23 M	<23 M	1020 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		766 M	<24 M	48 M	4430 M
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		7610 M	236 M	563 M	114000 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP109	TP119
			Depth (m)	2.50	0.50
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	08/07/2010	08/07/2010
			Date Received	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18
			Lab Sample No.(s)	1804927	1805350
GRO Surrogate % recovery**	%	TM089		74	68
GRO >C5-C12	<44 µg/kg	TM089		185	716
Benzene	<10 µg/kg	TM089		<10 M	<10 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M
Toluene	<2 µg/kg	TM089		<2 M	<2 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M
m,p,o-Xylene	<10 µg/kg	TM089		<10 M	<10 M
BTEX, Total	<10 µg/kg	TM089		<10 M	<10 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #
Aliphatics >C5-C6	<10 µg/kg	TM089		10.6	16.1
Aliphatics >C6-C8	<10 µg/kg	TM089		13	22.4
Aliphatics >C8-C10	<10 µg/kg	TM089		40.6	40.6
Aliphatics >C10-C12	<10 µg/kg	TM089		18.6	223
Aromatics >C6-C7	<10 µg/kg	TM089		<10	<10
Aromatics >C7-C8	<10 µg/kg	TM089		<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		60.9	60.9
Aromatics >EC10-EC12	<10 µg/kg	TM089		27.9	335
Total Aliphatics >C5-C12	<10 µg/kg	TM089		82.8	302
Total Aromatics >C6-C12	<10 µg/kg	TM089		88.8	396
Aliphatics >C12-C16	<100 µg/kg	TM173		11500	18500
Aliphatics >C16-C21	<100 µg/kg	TM173		4610	63900
Aliphatics >C16-C35	<100 µg/kg	TM173		207000	410000
Aliphatics >C21-C35	<100 µg/kg	TM173		202000	346000
Aliphatics >C35-C44	<100 µg/kg	TM173		118000	149000
Aromatics >EC12-EC16	<100 µg/kg	TM173		3020	23200
Aromatics >EC16-EC21	<100 µg/kg	TM173		3370	153000
Aromatics >EC21-EC35	<100 µg/kg	TM173		24200	448000
Aromatics >EC35-EC44	<100 µg/kg	TM173		24500	155000
Aromatics >EC40-EC44	<100 µg/kg	TM173		12800	64000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		336000	578000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		55100	780000
Total Aliphatics >C5-35	<100 µg/kg	TM173		218000	429000
Total Aliphatics >C5-C44	<100 µg/kg	TM173		336000	578000
Total Aromatics >C5-35	<100 µg/kg	TM173		30700	625000
Total Aromatics >C6-C44	<100 µg/kg	TM173		55200	780000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		249000	1050000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		391000	1360000

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP119	TP120	TP120	TP121	TP123	TP134
			Depth (m)	3.20	0.80	3.00	0.90	2.00	0.30
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	08/07/2010	08/07/2010	08/07/2010	07/07/2010	07/07/2010	08/07/2010
			Date Received	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18	100712-18	100712-18	100712-18	100712-18
			Lab Sample No.(s)	1805365	1805387	1805433	1805459	1805546	1805575
Moisture	%	PM114		15.3			20.7	16.2	10.1
Moisture content ratio	%	PM114		18.1			26.2	19.3	11.2
Dry matter content ratio	%	PM114		84.7			79.3	83.8	90
Asbestos Containing Material Screen	-	TM001							No ACM Detected
Phenols, Total monohydric	<0.22 mg/kg	TM062 (S)		<0.22 M	<0.22 M	2.1 M		<0.22 M	
Sulphate, 2:1 water soluble	<0.003 g/l	TM098		0.348 M	1.3 M	0.0652 M		0.0421 M	
Sulphur, Total	<0.02 %	TM132		0.078 #	0.931 #	0.02 #		0.02 #	
Fraction Organic Carbon (FOC)	<0.002 -	TM132		0.0163 #	0.0524 #	0.00223 #		0.00444 #	
pH	1 pH Units	TM133		7.41 M	7.69 M	7.79 M		7.21 M	
Cyanide, Total	<1 mg/kg	TM153		<1 M	<1 M	<1 M		<1 M	
Cyanide, Free	<1 mg/kg	TM153		<1	<1	<1		<1	
Cyanide, Complex	<1 mg/kg	TM153		<1	<1	<1		<1	
TPH >C6-C40	<10 mg/kg	TM154		275 #	13800 #	<10 #		<10 #	
Arsenic	<0.6 mg/kg	TM181		12.6 M	6.69 M	6.31 M		7.55 M	
Barium	<0.6 mg/kg	TM181		127 #	524 #	57.3 #		158 #	
Beryllium	<0.01 mg/kg	TM181		0.767 M	7.11 M	0.469 M		0.772 M	
Cadmium	<0.02 mg/kg	TM181		0.415 M	<0.02 M	0.198 M		0.488 M	
Chromium	<0.9 mg/kg	TM181		28.2 M	38.9 M	7.58 M		22.2 M	
Copper	<1.4 mg/kg	TM181		133 M	20.4 M	7.72 M		16.3 M	
Lead	<0.7 mg/kg	TM181		47.9 M	23.5 M	14.4 M		21.8 M	
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M		<0.14 M	
Nickel	<0.2 mg/kg	TM181		27.5 M	12 M	9.64 M		24 M	
Selenium	<1 mg/kg	TM181		<1 #	3.44 #	<1 #		1.58 #	
Vanadium	<0.2 mg/kg	TM181		19.6 #	39 #	14.3 #		23.5 #	
Zinc	<1.9 mg/kg	TM181		99.5 M	103 M	35.1 M		97.5 M	
Boron, water soluble	<1 mg/kg	TM222		1.08 M	3.79 M	1.95 M		3.59 M	

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP119	TP120	TP120	TP123
			Depth (m)	3.20	0.80	3.00	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	08/07/2010	08/07/2010	08/07/2010	07/07/2010
			Date Received	12/07/2010	12/07/2010	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18	100712-18	100712-18
			Lab Sample No.(s)	1805365	1805387	1805433	1805546
Naphthalene-d8 % recovery**	%	TM218		107	102	104	101
Acenaphthene-d10 % recovery**	%	TM218		106	102	105	99.6
Phenanthrene-d10 % recovery**	%	TM218		110	105	110	104
Chrysene-d12 % recovery**	%	TM218		91.5	91.8	99.6	91.4
Perylene-d12 % recovery**	%	TM218		97	98.9	116	104
Naphthalene	<9 µg/kg	TM218		104 M	244 M	13.3 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		16.3 M	2130 M	23.5 M	<12 M
Acenaphthene	<8 µg/kg	TM218		38 M	65500 M	212 M	<8 M
Fluorene	<10 µg/kg	TM218		61.3 M	12100 M	89.3 M	<10 M
Phenanthrene	<15 µg/kg	TM218		220 M	9080 M	877 M	<15 M
Anthracene	<16 µg/kg	TM218		68.1 M	5400 M	165 M	<16 M
Fluoranthene	<17 µg/kg	TM218		529 M	17900 M	1360 M	<17 M
Pyrene	<15 µg/kg	TM218		413 M	13300 M	1110 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		167 M	3030 M	472 M	<14 M
Chrysene	<10 µg/kg	TM218		169 M	3100 M	436 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		193 M	2440 M	523 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		77.1 M	1170 M	182 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		163 M	2190 M	507 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		99.2 M	865 M	239 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	314 M	57 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		126 M	1350 M	287 M	<24 M
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		2440 M	140000 M	6550 M	<118 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP120
			Depth (m)	0.80
			Sample Type	Soil/Solid
			Date Sampled	08/07/2010
			Date Received	12/07/2010
			SDG Ref	100712-18
			Lab Sample No.(s)	1805387
GRO Surrogate % recovery**	%	TM089		17
GRO >C5-C12	<44 µg/kg	TM089		812
Benzene	<10 µg/kg	TM089		<10 M
Ethylbenzene	<3 µg/kg	TM089		<3 M
Toluene	<2 µg/kg	TM089		<2 M
m,p-Xylene	<6 µg/kg	TM089		<6 M
o-Xylene	<3 µg/kg	TM089		<3 M
m,p,o-Xylene	<10 µg/kg	TM089		<10 M
BTEX, Total	<10 µg/kg	TM089		<10 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #
Aliphatics >C5-C6	<10 µg/kg	TM089		11.8
Aliphatics >C6-C8	<10 µg/kg	TM089		<10
Aliphatics >C8-C10	<10 µg/kg	TM089		154
Aliphatics >C10-C12	<10 µg/kg	TM089		157
Aromatics >C6-C7	<10 µg/kg	TM089		<10
Aromatics >C7-C8	<10 µg/kg	TM089		<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		232
Aromatics >EC10-EC12	<10 µg/kg	TM089		236
Total Aliphatics >C5-C12	<10 µg/kg	TM089		323
Total Aromatics >C6-C12	<10 µg/kg	TM089		467
Aliphatics >C12-C16	<100 µg/kg	TM173		203000
Aliphatics >C16-C21	<100 µg/kg	TM173		200000
Aliphatics >C16-C35	<100 µg/kg	TM173		2040000
Aliphatics >C21-C35	<100 µg/kg	TM173		1840000
Aliphatics >C35-C44	<100 µg/kg	TM173		1720000
Aromatics >EC12-EC16	<100 µg/kg	TM173		206000
Aromatics >EC16-EC21	<100 µg/kg	TM173		258000
Aromatics >EC21-EC35	<100 µg/kg	TM173		1130000
Aromatics >EC35-EC44	<100 µg/kg	TM173		1100000
Aromatics >EC40-EC44	<100 µg/kg	TM173		504000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		3960000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		2690000
Total Aliphatics >C5-35	<100 µg/kg	TM173		2240000
Total Aliphatics >C5-C44	<100 µg/kg	TM173		3960000
Total Aromatics >C5-35	<100 µg/kg	TM173		1600000
Total Aromatics >C6-C44	<100 µg/kg	TM173		2700000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		3840000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		6660000

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP135	TP135	TP136	TP136	TP137	TP137
			Depth (m)	0.90	3.10	0.50	1.00	0.70	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	08/07/2010	08/07/2010	08/07/2010	08/07/2010	08/07/2010	08/07/2010
			Date Received	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18	100712-18	100712-18	100712-18	100712-18
			Lab Sample No.(s)	1805596	1805613	1805646	1805675	1805701	1805736
Moisture	%	PM114			27.8				33.5
Moisture content ratio	%	PM114			38.5				50.4
Dry matter content ratio	%	PM114			72.2				66.5
Asbestos Containing Material Screen	-	TM001				No ACM Detected			
Phenols, Total monohydric	<0.22 mg/kg	TM062 (S)		<0.22 M	<0.22 M	<0.22 M	<0.22 M	<0.22 M	<0.22 M
Sulphate, 2:1 water soluble	<0.003 g/l	TM098		0.163 M	0.209 M	1.4 M	0.728 M	0.0309 M	0.357 M
Sulphur, Total	<0.02 %	TM132		0.105 #	0.052 #	0.234 #	0.568 #	1.07 #	
Fraction Organic Carbon (FOC)	<0.002 -	TM132		0.0384 #	0.00987 #	0.0497 #	0.233 #	0.341 #	0.169 #
pH	1 pH Units	TM133		7.93 M	5.61 M	7.72 M	5.76 M	8.33 M	3.71 M
Cyanide, Total	<1 mg/kg	TM153		17.2 M	21 M	162 M	267 M	17.1 M	22100 M
Cyanide, Free	<1 mg/kg	TM153		<1	<1	<1	5.12	<1	<1
Cyanide, Complex	<1 mg/kg	TM153		16.9	20.7	163	262	16.3	22200
TPH >C6-C40	<10 mg/kg	TM154		896 #	97 #	1830 #	1210 #	773 #	8970 #
Arsenic	<0.6 mg/kg	TM181		10 M	8.5 M	12.6 M	21.2 M	3.85 M	50.8 M
Barium	<0.6 mg/kg	TM181		357 #	183 #	221 #	251 #	195 #	12.3 #
Beryllium	<0.01 mg/kg	TM181		0.918 M	0.844 M	1.21 M	1.27 M	1.43 M	2.12 M
Cadmium	<0.02 mg/kg	TM181		2.95 M	0.146 M	0.419 M	0.181 M	0.547 M	4.11 M
Chromium	<0.9 mg/kg	TM181		15.8 M	41.6 M	14.5 M	21.1 M	10.5 M	82.2 M
Copper	<1.4 mg/kg	TM181		63.6 M	28.4 M	34.1 M	66.5 M	92.9 M	79.6 M
Lead	<0.7 mg/kg	TM181		94.9 M	48.6 M	81.2 M	128 M	19.4 M	325 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	0.246 M	<0.14 M	0.671 M
Nickel	<0.2 mg/kg	TM181		14.4 M	30.2 M	19.1 M	25.2 M	21.5 M	53.6 M
Selenium	<1 mg/kg	TM181		1.62 #	1.77 #	1.02 #	1.74 #	<1 #	<10 #
Vanadium	<0.2 mg/kg	TM181		24.5 #	38.5 #	24.2 #	39 #	27.5 #	39.5 #
Zinc	<1.9 mg/kg	TM181		265 M	86 M	55.2 M	64.6 M	29.6 M	328 M
Boron, water soluble	<1 mg/kg	TM222		3.27 M	2.4 M	1.82 M	1.9 M	1.19 M	1.11 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP135	TP135	TP136	TP136	TP137	TP137
			Depth (m)	0.90	3.10	0.50	1.00	0.70	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	08/07/2010	08/07/2010	08/07/2010	08/07/2010	08/07/2010	08/07/2010
			Date Received	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18	100712-18	100712-18	100712-18	100712-18
			Lab Sample No.(s)	1805596	1805613	1805646	1805675	1805701	1805736
Naphthalene-d8 % recovery**	%	TM218		107	111	107	114	110	106
Acenaphthene-d10 % recovery**	%	TM218		108	110	107	114	109	99.6
Phenanthrene-d10 % recovery**	%	TM218		109	113	111	115	110	103
Chrysene-d12 % recovery**	%	TM218		92.7	95.2	96.5	96.2	92.3	87.4
Perylene-d12 % recovery**	%	TM218		103	105	99.8	98.8	95.5	87.4
Naphthalene	<9 µg/kg	TM218		168 M	<9 M	1210 M	2670 M	592 M	44700 M
Acenaphthylene	<12 µg/kg	TM218		307 M	<12 M	3490 M	3350 M	608 M	6420 M
Acenaphthene	<8 µg/kg	TM218		60.8 M	<8 M	600 M	609 M	52.5 M	2170 M
Fluorene	<10 µg/kg	TM218		100 M	<10 M	2600 M	748 M	179 M	12800 M
Phenanthrene	<15 µg/kg	TM218		1140 M	<15 M	23700 M	7630 M	2320 M	193000 M
Anthracene	<16 µg/kg	TM218		474 M	<16 M	8220 M	2780 M	677 M	21400 M
Fluoranthene	<17 µg/kg	TM218		2950 M	32.4 M	40300 M	17500 M	5310 M	242000 M
Pyrene	<15 µg/kg	TM218		2490 M	28.1 M	32700 M	14800 M	5110 M	178000 M
Benz(a)anthracene	<14 µg/kg	TM218		1490 M	28.8 M	20100 M	11100 M	2500 M	65500 M
Chrysene	<10 µg/kg	TM218		1290 M	16.3 M	16700 M	10400 M	2140 M	63200 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		2010 M	26.3 M	23400 M	21300 M	3490 M	71200 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		768 M	<14 M	8650 M	8090 M	1280 M	27100 M
Benzo(a)pyrene	<15 µg/kg	TM218		1570 M	<15 M	17000 M	9860 M	2480 M	31900 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		979 M	<18 M	9360 M	9900 M	1700 M	29500 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		276 M	<23 M	3060 M	2740 M	440 M	7180 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		1210 M	<24 M	10000 M	10800 M	2080 M	31500 M
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		17300 M	132 M	221000 M	134000 M	30900 M	1030000 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP135	TP137
			Depth (m)	0.90	0.70
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	08/07/2010	08/07/2010
			Date Received	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18
			Lab Sample No.(s)	1805596	1805701
GRO Surrogate % recovery**	%	TM089		53	51
GRO >C5-C12	<44 µg/kg	TM089		107	4190
Benzene	<10 µg/kg	TM089		<10 M	<10 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	24.4 M
Toluene	<2 µg/kg	TM089		<2 M	199 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	271 M
o-Xylene	<3 µg/kg	TM089		<3 M	248 M
m,p,o-Xylene	<10 µg/kg	TM089		<10 M	518 M
BTEX, Total	<10 µg/kg	TM089		<10 M	741 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #
Aliphatics >C5-C6	<10 µg/kg	TM089		11.4	22.7
Aliphatics >C6-C8	<10 µg/kg	TM089		10.4	87.2
Aliphatics >C8-C10	<10 µg/kg	TM089		15.7	309
Aliphatics >C10-C12	<10 µg/kg	TM089		13	1030
Aromatics >C6-C7	<10 µg/kg	TM089		<10	<10
Aromatics >C7-C8	<10 µg/kg	TM089		<10	199
Aromatics >EC8-EC10	<10 µg/kg	TM089		23.6	1010
Aromatics >EC10-EC12	<10 µg/kg	TM089		19.5	1540
Total Aliphatics >C5-C12	<10 µg/kg	TM089		50.5	1450
Total Aromatics >C6-C12	<10 µg/kg	TM089		43	2740
Aliphatics >C12-C16	<100 µg/kg	TM173		11900	9490
Aliphatics >C16-C21	<100 µg/kg	TM173		20500	17900
Aliphatics >C16-C35	<100 µg/kg	TM173		107000	47900
Aliphatics >C21-C35	<100 µg/kg	TM173		86800	30100
Aliphatics >C35-C44	<100 µg/kg	TM173		42600	7000
Aromatics >EC12-EC16	<100 µg/kg	TM173		57300	11000
Aromatics >EC16-EC21	<100 µg/kg	TM173		227000	25500
Aromatics >EC21-EC35	<100 µg/kg	TM173		507000	53100
Aromatics >EC35-EC44	<100 µg/kg	TM173		209000	21700
Aromatics >EC40-EC44	<100 µg/kg	TM173		87400	9410
Total Aliphatics >C12-C44	<100 µg/kg	TM173		162000	64400
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1000000	111000
Total Aliphatics >C5-35	<100 µg/kg	TM173		119000	58900
Total Aliphatics >C5-C44	<100 µg/kg	TM173		162000	65900
Total Aromatics >C5-35	<100 µg/kg	TM173		791000	92400
Total Aromatics >C6-C44	<100 µg/kg	TM173		1000000	114000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		910000	151000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		1160000	180000

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Customer Sample Ref.	TP137
Depth (m)	0.70
Sample Type	Soil/Solid
Date Sampled	08/07/2010
Date Received	12/07/2010
SDG Ref	100712-18
Lab Sample No.(s)	1805701

Component	LOD/Units	Method	
Dibromofluoromethane**	%	TM116	113
Toluene-d8**	%	TM116	97.8
4-Bromofluorobenzene**	%	TM116	117
Dichlorodifluoromethane	<4 µg/kg	TM116	<4 M
Chloromethane	<7 µg/kg	TM116	<7 #
Vinyl Chloride	<10 µg/kg	TM116	<10 #
Bromomethane	<13 µg/kg	TM116	<13 M
Chloroethane	<14 µg/kg	TM116	<14 M
Trichlorofluorormethane	<6 µg/kg	TM116	<6 M
1.1-Dichloroethene	<10 µg/kg	TM116	<10 #
Carbon Disulphide	<7 µg/kg	TM116	<7 M
Dichloromethane	<10 µg/kg	TM116	<10 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<11 M
trans-1-2-Dichloroethene	<11 µg/kg	TM116	<11 M
1.1-Dichloroethane	<8 µg/kg	TM116	<8 M
cis-1-2-Dichloroethene	<5 µg/kg	TM116	<5 M
2.2-Dichloropropane	<12 µg/kg	TM116	<12 M
Bromochloromethane	<14 µg/kg	TM116	<14 M
Chloroform	<8 µg/kg	TM116	<8 M
1.1.1-Trichloroethane	<7 µg/kg	TM116	<7 M
1.1-Dichloropropene	<11 µg/kg	TM116	<11 M
Carbontetrachloride	<14 µg/kg	TM116	<14 M
1.2-Dichloroethane	<5 µg/kg	TM116	<5 M
Benzene	<9 µg/kg	TM116	34.8 M
Trichloroethene	<9 µg/kg	TM116	<9 M
1.2-Dichloropropane	<12 µg/kg	TM116	<12 M
Dibromomethane	<9 µg/kg	TM116	<9 M
Bromodichloromethane	<7 µg/kg	TM116	<7 M
cis-1-3-Dichloropropene	<14 µg/kg	TM116	<14 M
Toluene	<5 µg/kg	TM116	634 M
trans-1-3-Dichloropropene	<14 µg/kg	TM116	<14
1.1.2-Trichloroethane	<10 µg/kg	TM116	<10 M
1.3-Dichloropropane	<7 µg/kg	TM116	<7 #
Tetrachloroethene	<5 µg/kg	TM116	<5 M
Dibromochloromethane	<13 µg/kg	TM116	<13 M
1.2-Dibromoethane	<12 µg/kg	TM116	<12 M
Chorobenzene	<5 µg/kg	TM116	<5 M
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116	<10 M
Ethylbenzene	<4 µg/kg	TM116	69.4 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Customer Sample Ref.	TP137
Depth (m)	0.70
Sample Type	Soil/Solid
Date Sampled	08/07/2010
Date Received	12/07/2010
SDG Ref	100712-18
Lab Sample No.(s)	1805701

Component	LOD/Units	Method	
p/m-Xylene	<14 µg/kg	TM116	572 #
o-Xylene	<10 µg/kg	TM116	397 M
Styrene	<10 µg/kg	TM116	<10 M
Bromoform	<10 µg/kg	TM116	<10 M
Isopropylbenzene	<5 µg/kg	TM116	<5 M
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116	<10 #
1.2.3-Trichloropropane	<17 µg/kg	TM116	<17 M
Bromobenzene	<10 µg/kg	TM116	<10 M
Propylbenzene	<11 µg/kg	TM116	20.3 M
2-Chlorotoluene	<9 µg/kg	TM116	<9 M
1.3.5-Trimethylbenzene	<8 µg/kg	TM116	112 #
4-Chlorotoluene	<12 µg/kg	TM116	<12 M
tert-Butylbenzene	<12 µg/kg	TM116	<12 #
1.2.4-Trimethylbenzene	<9 µg/kg	TM116	353 #
sec-Butylbenzene	<10 µg/kg	TM116	<10 M
4-Isopropyltoluene	<11 µg/kg	TM116	<11 M
1.3-Dichlorobenzene	<6 µg/kg	TM116	<6 M
1.4-Dichlorobenzene	<5 µg/kg	TM116	<5 M
n-Butylbenzene	<10 µg/kg	TM116	<10 M
1.2-Dichlorobenzene	<12 µg/kg	TM116	<12 M
1.2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<14 M
Tert-amyl methyl ether	<15 µg/kg	TM116	<15
1.2.4-Trichlorobenzene	<6 µg/kg	TM116	<6 #
Hexachlorobutadiene	<12 µg/kg	TM116	<12 M
Naphthalene	<13 µg/kg	TM116	170 M
1.2.3-Trichlorobenzene	<6 µg/kg	TM116	<6 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	WS3	WS3	WS4	WS4	WS5	WS6
			Depth (m)	0.10 - 0.90	1.20 - 2.00	0.10 - 0.50	1.00 - 1.50	0.10 - 1.00	0.30 - 1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	07/07/2010	07/07/2010	07/07/2010	07/07/2010	07/07/2010	07/07/2010
			Date Received	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18	100712-18	100712-18	100712-18	100712-18
			Lab Sample No.(s)	1805932	1806100	1806152	1806221	1806285	1806302
Moisture	%	PM114		6.8		11.4			11
Moisture content ratio	%	PM114		7.3		12.8			12.3
Dry matter content ratio	%	PM114		93.2		88.7			89
Asbestos Containing Material Screen	-	TM001		No ACM Detected					No ACM Detected
Phenols, Total monohydric	<0.22 mg/kg	TM062 (S)		<0.22 M	<0.22 M	<0.22 M	<0.22 M	<0.22 M	<0.22 M
Sulphate, 2:1 water soluble	<0.003 g/l	TM098		0.0772 M	0.198 M	0.0868 M	0.298 M	0.0341 M	0.0922 M
Sulphur, Total	<0.02 %	TM132		0.238 #	0.112 #	0.152 #	0.54 #	0.274 #	0.312 #
Fraction Organic Carbon (FOC)	<0.002 -	TM132		0.0155 #	0.0211 #	0.0925 #	0.0386 #	0.197 #	0.236 #
pH	1 pH Units	TM133		8.52 M	7.85 M	8.11 M	6.81 M	8.44 M	8.11 M
Cyanide, Total	<1 mg/kg	TM153		3.74 M	8.06 M	6.9 M	194 M	10.8 M	17.1 M
Cyanide, Free	<1 mg/kg	TM153		<1	<1	<1	<1	<1	<1
Cyanide, Complex	<1 mg/kg	TM153		3.77	9.15	6.83	194	10.4	16.5
TPH >C6-C40	<10 mg/kg	TM154		3710 #	1170 #	2640 #	1080 #	789 #	3090 #
Arsenic	<0.6 mg/kg	TM181		2.21 M	11.4 M	6.28 M	9.33 M	18.9 M	14.2 M
Barium	<0.6 mg/kg	TM181		364 #	182 #	246 #	212 #	340 #	247 #
Beryllium	<0.01 mg/kg	TM181		3.22 M	0.723 M	0.953 M	1.25 M	1.61 M	3 M
Cadmium	<0.02 mg/kg	TM181		0.726 M	0.768 M	2.93 M	0.389 M	0.31 M	0.737 M
Chromium	<0.9 mg/kg	TM181		28 M	15.9 M	13.7 M	35.1 M	21.2 M	19.8 M
Copper	<1.4 mg/kg	TM181		14.8 M	38 M	36.3 M	27 M	88.8 M	94.4 M
Lead	<0.7 mg/kg	TM181		18.1 M	146 M	41 M	123 M	121 M	119 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.147 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		3.94 M	14.7 M	19.7 M	33 M	45.6 M	36.6 M
Selenium	<1 mg/kg	TM181		1.48 #	<1 #	<1 #	1.56 #	<10 #	2.01 #
Vanadium	<0.2 mg/kg	TM181		45.2 #	24.3 #	28.4 #	33.3 #	47.4 #	45.6 #
Zinc	<1.9 mg/kg	TM181		50.3 M	132 M	65.7 M	83.7 M	79.4 M	88.3 M
Boron, water soluble	<1 mg/kg	TM222		1 M	2.64 M	<1 M	1.68 M	<1 M	1.37 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	WS3	WS3	WS4	WS4	WS5	WS6
			Depth (m)	0.10 - 0.90	1.20 - 2.00	0.10 - 0.50	1.00 - 1.50	0.10 - 1.00	0.30 - 1.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	07/07/2010	07/07/2010	07/07/2010	07/07/2010	07/07/2010	07/07/2010
			Date Received	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18	100712-18	100712-18	100712-18	100712-18
			Lab Sample No.(s)	1805932	1806100	1806152	1806221	1806285	1806302
Naphthalene-d8 % recovery**	%	TM218		105	111	103	110	109	55.6
Acenaphthene-d10 % recovery**	%	TM218		103	111	102	110	109	56
Phenanthrene-d10 % recovery**	%	TM218		106	114	102	113	112	58.5
Chrysene-d12 % recovery**	%	TM218		91.8	97	84.7	102	99.2	51.5
Perylene-d12 % recovery**	%	TM218		102	106	89.4	113	107	54.7
Naphthalene	<9 µg/kg	TM218		140 M	261 M	657 M	412 M	1350 M	3160 M
Acenaphthylene	<12 µg/kg	TM218		694 M	610 M	1010 M	1430 M	2860 M	1450 M
Acenaphthene	<8 µg/kg	TM218		1340 M	210 M	283 M	407 M	336 M	2970 M
Fluorene	<10 µg/kg	TM218		933 M	412 M	309 M	1740 M	696 M	3760 M
Phenanthrene	<15 µg/kg	TM218		7480 M	2960 M	5460 M	11000 M	10500 M	106000 M
Anthracene	<16 µg/kg	TM218		2710 M	1490 M	2060 M	4320 M	4400 M	23400 M
Fluoranthene	<17 µg/kg	TM218		11500 M	13300 M	16800 M	23300 M	28900 M	178000 M
Pyrene	<15 µg/kg	TM218		12500 M	10700 M	14400 M	18000 M	25400 M	132000 M
Benz(a)anthracene	<14 µg/kg	TM218		4160 M	6320 M	7280 M	12400 M	17700 M	64100 M
Chrysene	<10 µg/kg	TM218		3760 M	5840 M	6660 M	8760 M	14600 M	62200 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		12100 M	8740 M	11200 M	11100 M	24900 M	84600 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		4040 M	3430 M	4340 M	3990 M	9000 M	29300 M
Benzo(a)pyrene	<15 µg/kg	TM218		11100 M	7090 M	8600 M	8620 M	19000 M	52100 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		7260 M	4310 M	6240 M	3470 M	12900 M	36600 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		1700 M	1210 M	1550 M	1310 M	3570 M	8900 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		10500 M	5150 M	7560 M	3390 M	14100 M	42600 M
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		91900 M	72100 M	94400 M	114000 M	190000 M	830000 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	WS4	WS6
			Depth (m)	1.00 - 1.50	0.30 - 1.00
			Sample Type	Soil/Solid	Soil/Solid
			Date Sampled	07/07/2010	07/07/2010
			Date Received	12/07/2010	12/07/2010
			SDG Ref	100712-18	100712-18
			Lab Sample No.(s)	1806221	1806302
GRO Surrogate % recovery**	%	TM089		68	27
GRO >C5-C12	<44 µg/kg	TM089		486	142
Benzene	<10 µg/kg	TM089		12 M	<10 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M
Toluene	<2 µg/kg	TM089		<2 M	<2 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M
m,p,o-Xylene	<10 µg/kg	TM089		<10 M	<10 M
BTEX, Total	<10 µg/kg	TM089		12 M	<10 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #
Aliphatics >C5-C6	<10 µg/kg	TM089		16.2	13
Aliphatics >C6-C8	<10 µg/kg	TM089		219	23.9
Aliphatics >C8-C10	<10 µg/kg	TM089		45.3	14.9
Aliphatics >C10-C12	<10 µg/kg	TM089		50.3	21.6
Aromatics >C6-C7	<10 µg/kg	TM089		12	<10
Aromatics >C7-C8	<10 µg/kg	TM089		<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		67.9	22.4
Aromatics >EC10-EC12	<10 µg/kg	TM089		75.4	32.4
Total Aliphatics >C5-C12	<10 µg/kg	TM089		331	73.4
Total Aromatics >C6-C12	<10 µg/kg	TM089		155	54.8
Aliphatics >C12-C16	<100 µg/kg	TM173		19700	15900
Aliphatics >C16-C21	<100 µg/kg	TM173		28200	25700
Aliphatics >C16-C35	<100 µg/kg	TM173		85600	95000
Aliphatics >C21-C35	<100 µg/kg	TM173		57400	69200
Aliphatics >C35-C44	<100 µg/kg	TM173		23900	38800
Aromatics >EC12-EC16	<100 µg/kg	TM173		38700	25200
Aromatics >EC16-EC21	<100 µg/kg	TM173		345000	663000
Aromatics >EC21-EC35	<100 µg/kg	TM173		800000	1070000
Aromatics >EC35-EC44	<100 µg/kg	TM173		191000	279000
Aromatics >EC40-EC44	<100 µg/kg	TM173		66400	97800
Total Aliphatics >C12-C44	<100 µg/kg	TM173		129000	150000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1370000	2040000
Total Aliphatics >C5-35	<100 µg/kg	TM173		106000	111000
Total Aliphatics >C5-C44	<100 µg/kg	TM173		130000	150000
Total Aromatics >C5-35	<100 µg/kg	TM173		1180000	1760000
Total Aromatics >C6-C44	<100 µg/kg	TM173		1370000	2040000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		1290000	1870000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		1500000	2190000

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Date Received	SDG Ref	Lab Sample No.(s)
			WS7	1.60 - 2.00	Soil/Solid	07/07/2010	12/07/2010	100712-18	1806335
Phenols, Total monohydric	<0.22 mg/kg	TM062 (S)	<0.22 M						
Sulphate, 2:1 water soluble	<0.003 g/l	TM098	1.44 M						
Sulphur, Total	<0.02 %	TM132	0.526 #						
Fraction Organic Carbon (FOC)	<0.002 -	TM132	0.00446 #						
pH	1 pH Units	TM133	7.75 M						
Cyanide, Total	<1 mg/kg	TM153	18.4 M						
Cyanide, Free	<1 mg/kg	TM153	<1						
Cyanide, Complex	<1 mg/kg	TM153	18.4						
TPH >C6-C40	<10 mg/kg	TM154	<10 #						
Arsenic	<0.6 mg/kg	TM181	44.2 M						
Barium	<0.6 mg/kg	TM181	65.3 #						
Beryllium	<0.01 mg/kg	TM181	0.686 M						
Cadmium	<0.02 mg/kg	TM181	0.124 M						
Chromium	<0.9 mg/kg	TM181	28.4 M						
Copper	<1.4 mg/kg	TM181	13.6 M						
Lead	<0.7 mg/kg	TM181	32.2 M						
Mercury	<0.14 mg/kg	TM181	<0.14 M						
Nickel	<0.2 mg/kg	TM181	19 M						
Selenium	<1 mg/kg	TM181	1.39 #						
Vanadium	<0.2 mg/kg	TM181	29 #						
Zinc	<1.9 mg/kg	TM181	50.2 M						
Boron, water soluble	<1 mg/kg	TM222	<1 M						

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	
				WS7
			Depth (m)	1.60 - 2.00
			Sample Type	Soil/Solid
			Date Sampled	07/07/2010
			Date Received	12/07/2010
			SDG Ref	100712-18
			Lab Sample No.(s)	1806335
Naphthalene-d8 % recovery**	%	TM218		113
Acenaphthene-d10 % recovery**	%	TM218		113
Phenanthrene-d10 % recovery**	%	TM218		115
Chrysene-d12 % recovery**	%	TM218		102
Perylene-d12 % recovery**	%	TM218		112
Naphthalene	<9 µg/kg	TM218		12.5 M
Acenaphthylene	<12 µg/kg	TM218		<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M
Fluorene	<10 µg/kg	TM218		<10 M
Phenanthrene	<15 µg/kg	TM218		58.6 M
Anthracene	<16 µg/kg	TM218		<16 M
Fluoranthene	<17 µg/kg	TM218		105 M
Pyrene	<15 µg/kg	TM218		74.8 M
Benz(a)anthracene	<14 µg/kg	TM218		62.4 M
Chrysene	<10 µg/kg	TM218		71.4 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		116 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		40.3 M
Benzo(a)pyrene	<15 µg/kg	TM218		39.2 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		28.9 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		33.1 M
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		643 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100712-18	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-84	**Attention:**	Richard Robinson
Client Reference:		**Order No.:**	NE09/616
Location:	THE DOVE WAY-NTE285	**Report No:**	91087

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	WS7
			Depth (m)	1.60 - 2.00
			Sample Type	Soil/Solid
			Date Sampled	07/07/2010
			Date Received	12/07/2010
			SDG Ref	100712-18
			Lab Sample No.(s)	1806335
GRO Surrogate % recovery**	%	TM089		126
GRO >C5-C12	<44 µg/kg	TM089		<44
Benzene	<10 µg/kg	TM089		<10 M
Ethylbenzene	<3 µg/kg	TM089		<3 M
Toluene	<2 µg/kg	TM089		<2 M
m,p-Xylene	<6 µg/kg	TM089		<6 M
o-Xylene	<3 µg/kg	TM089		<3 M
m,p,o-Xylene	<10 µg/kg	TM089		<10 M
BTEX, Total	<10 µg/kg	TM089		<10 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #
Aliphatics >C5-C6	<10 µg/kg	TM089		<10
Aliphatics >C6-C8	<10 µg/kg	TM089		<10
Aliphatics >C8-C10	<10 µg/kg	TM089		<10
Aliphatics >C10-C12	<10 µg/kg	TM089		<10
Aromatics >C6-C7	<10 µg/kg	TM089		<10
Aromatics >C7-C8	<10 µg/kg	TM089		<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10
Total Aliphatics >C5-C12	<10 µg/kg	TM089		<10
Total Aromatics >C6-C12	<10 µg/kg	TM089		<10
Aliphatics >C12-C16	<100 µg/kg	TM173		1410
Aliphatics >C16-C21	<100 µg/kg	TM173		1370
Aliphatics >C16-C35	<100 µg/kg	TM173		5180
Aliphatics >C21-C35	<100 µg/kg	TM173		3800
Aliphatics >C35-C44	<100 µg/kg	TM173		1670
Aromatics >EC12-EC16	<100 µg/kg	TM173		2100
Aromatics >EC16-EC21	<100 µg/kg	TM173		13800
Aromatics >EC21-EC35	<100 µg/kg	TM173		26700
Aromatics >EC35-EC44	<100 µg/kg	TM173		8900
Aromatics >EC40-EC44	<100 µg/kg	TM173		3540
Total Aliphatics >C12-C44	<100 µg/kg	TM173		8260
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		51500
Total Aliphatics >C5-35	<100 µg/kg	TM173		6590
Total Aliphatics >C5-C44	<100 µg/kg	TM173		8260
Total Aromatics >C5-35	<100 µg/kg	TM173		42600
Total Aromatics >C6-C44	<100 µg/kg	TM173		51500
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		49200
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		59800

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

ALcontrol Laboratories

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.237	**Moisture Content Ratio (%)**	35.4
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	73.9
Particle Size <4mm	>95%		

Case	
SDG	100712-18
Lab Sample Number(s)	1805100
Sampled Date	08-Jul-2010
Customer Sample Ref.	TP117
Depth (m)	1.80

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^n in 2:1 eluate C_2**	**2:1 conc^n leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00176	0.00352	-	-	-
Barium	0.0487	0.0974	-	-	-
Cadmium	0.000209	0.000418	-	-	-
Chromium	0.00184	0.00368	-	-	-
Copper	0.00858	0.0172	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00313	0.00626	-	-	-
Lead	0.00248	0.00496	-	-	-
Antimony	-	-	-	-	-
Selenium	0.000887	0.00177	-	-	-
Zinc	0.0121	0.0242	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	90	180	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	17-Jul-2010
pH (pH Units)	7.10
Conductivity (µS/cm)	267.00
Temperature (ºC)	21.10
Volume Leachant (Litres)	0.288
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

V1.5

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.237	**Moisture Content Ratio (%)**	35.4
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	73.9
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805100			
Sampled Date	08-Jul-2010			
Customer Sample Ref.	TP117			
Depth (m)	1.80			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	0.000081	0.000162	-	-	-
Boron	0.301	0.602	-	-	-
pH	7.5	15	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.00182	0.00364	-	-	-

Leach Test Information

Date Prepared	17-Jul-2010
pH (pH Units)	7.10
Conductivity (µS/cm)	267.00
Temperature (°C)	21.10
Volume Leachant (Litres)	0.288
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.207	**Moisture Content Ratio (%)**	18.1
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	84.7
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805365			
Sampled Date	08-Jul-2010			
Customer Sample Ref.	TP119			
Depth (m)	3.20			

Solid Waste Analysis

Total Organic Carbon (%)	1.63	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	7.41	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00236	0.00472	-	-	-
Barium	0.0737	0.147	-	-	-
Cadmium	<0.0001	<0.0002	-	-	-
Chromium	0.00279	0.00558	-	-	-
Copper	0.00502	0.01	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.0146	0.0292	-	-	-
Lead	0.000404	0.000808	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00167	0.00334	-	-	-
Zinc	0.00989	0.0198	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	1080	2160	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	7.67
Conductivity (µS/cm)	1,850.00
Temperature (ºC)	20.20
Volume Leachant (Litres)	0.318
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.207	**Moisture Content Ratio (%)**	18.1
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	84.7
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805365			
Sampled Date	08-Jul-2010			
Customer Sample Ref.	TP119			
Depth (m)	3.20			

Solid Waste Analysis

Total Organic Carbon (%)	1.63	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	7.41	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	<0.00007	<0.00014	-	-	-
Boron	0.793	1.59	-	-	-
pH	8.1	16	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.00131	0.00262	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	7.67
Conductivity (µS/cm)	1,850.00
Temperature (°C)	20.20
Volume Leachant (Litres)	0.318
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.220	**Moisture Content Ratio (%)**	26.2
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	79.3
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805459			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	TP121			
Depth (m)	0.90			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00118	0.00236	-	-	-
Barium	0.0774	0.155	-	-	-
Cadmium	0.000184	0.000368	-	-	-
Chromium	0.0117	0.0234	-	-	-
Copper	0.0172	0.0344	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00375	0.0075	-	-	-
Lead	0.00103	0.00206	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00101	0.00202	-	-	-
Zinc	0.0111	0.0222	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	74.4	149	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	8.13
Conductivity (µS/cm)	413.00
Temperature (ºC)	20.80
Volume Leachant (Litres)	0.304
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.220	**Moisture Content Ratio (%)**	26.2
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	79.3
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805459			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	TP121			
Depth (m)	0.90			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	<0.00007	<0.00014	-	-	-
Boron	0.343	0.686	-	-	-
pH	8.4	17	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.00168	0.00336	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	8.13
Conductivity (µS/cm)	413.00
Temperature (ºC)	20.80
Volume Leachant (Litres)	0.304
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.209	**Moisture Content Ratio (%)**	19.3
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	83.8
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805546			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	TP123			
Depth (m)	2.00			

Solid Waste Analysis

Total Organic Carbon (%)	0.444	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	7.21	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00168	0.00336	-	-	-
Barium	0.0758	0.152	-	-	-
Cadmium	<0.0001	<0.0002	-	-	-
Chromium	0.00274	0.00548	-	-	-
Copper	0.00765	0.0153	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00293	0.00586	-	-	-
Lead	0.000655	0.00131	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00142	0.00284	-	-	-
Zinc	0.00749	0.015	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	43.2	86.4	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	7.64
Conductivity (µS/cm)	165.00
Temperature (ºC)	19.60
Volume Leachant (Litres)	0.316
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.209	**Moisture Content Ratio (%)**	19.3
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	83.8
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805546			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	TP123			
Depth (m)	2.00			

Solid Waste Analysis

Total Organic Carbon (%)	0.444	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	7.21	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	0.000092	0.000184	-	-	-
Boron	0.922	1.84	-	-	-
pH	8	16	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.00331	0.00662	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	7.64
Conductivity (µS/cm)	165.00
Temperature (°C)	19.60
Volume Leachant (Litres)	0.316
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.194	**Moisture Content Ratio (%)**	11.2
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	90.0
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805575			
Sampled Date	08-Jul-2010			
Customer Sample Ref.	TP134			
Depth (m)	0.30			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00586	0.0117	-	-	-
Barium	0.0127	0.0254	-	-	-
Cadmium	0.000129	0.000258	-	-	-
Chromium	0.00237	0.00474	-	-	-
Copper	0.0159	0.0318	-	-	-
Mercury Dissolved (CVAF)	0.0000372	0.0000744	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00241	0.00482	-	-	-
Lead	0.00157	0.00314	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00195	0.0039	-	-	-
Zinc	0.00408	0.00816	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	<3	<6	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	8.35
Conductivity (µS/cm)	251.00
Temperature (ºC)	18.20
Volume Leachant (Litres)	0.330
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.194	**Moisture Content Ratio (%)**	11.2
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	90.0
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805575			
Sampled Date	08-Jul-2010			
Customer Sample Ref.	TP134			
Depth (m)	0.30			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Concⁿ in 2:1 eluate C_2**	**2:1 concⁿ leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	0.000143	0.000286	-	-	-
Boron	0.0419	0.0838	-	-	-
pH	8.5	17	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.00471	0.00942	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	8.35
Conductivity (µS/cm)	251.00
Temperature (ºC)	18.20
Volume Leachant (Litres)	0.330
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.242	**Moisture Content Ratio (%)**	38.5
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	72.2
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805613			
Sampled Date	08-Jul-2010			
Customer Sample Ref.	TP135			
Depth (m)	3.10			

Solid Waste Analysis

Total Organic Carbon (%)	0.987	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	5.61	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Concⁿ in 2:1 eluate C_2**	**2:1 concⁿ leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00381	0.00762	-	-	-
Barium	0.0418	0.0836	-	-	-
Cadmium	<0.0001	<0.0002	-	-	-
Chromium	0.0024	0.0048	-	-	-
Copper	0.00658	0.0132	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00226	0.00452	-	-	-
Lead	0.00254	0.00508	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00188	0.00376	-	-	-
Zinc	0.0166	0.0332	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	234	468	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	6.24
Conductivity (µS/cm)	459.00
Temperature (ºC)	16.60
Volume Leachant (Litres)	0.283
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.242	**Moisture Content Ratio (%)**	38.5
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	72.2
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805613			
Sampled Date	08-Jul-2010			
Customer Sample Ref.	TP135			
Depth (m)	3.10			

Solid Waste Analysis

Total Organic Carbon (%)	0.987	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	5.61	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Concⁿ in 2:1 eluate C_2**	**2:1 concⁿ leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	0.000083	0.000166	-	-	-
Boron	0.667	1.33	-	-	-
pH	7.3	15	-	-	-
Total Cyanide (W)	0.25	0.5	-	-	-
Vanadium	0.00164	0.00328	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	6.24
Conductivity (µS/cm)	459.00
Temperature (ºC)	16.60
Volume Leachant (Litres)	0.283
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.264	**Moisture Content Ratio (%)**	50.4
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	66.5
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805736			
Sampled Date	08-Jul-2010			
Customer Sample Ref.	TP137			
Depth (m)	2.00			

Solid Waste Analysis

Total Organic Carbon (%)	16.9	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	3.71	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00339	0.00678	-	-	-
Barium	0.0338	0.0676	-	-	-
Cadmium	<0.0001	<0.0002	-	-	-
Chromium	0.000715	0.00143	-	-	-
Copper	0.00594	0.0119	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.0014	0.0028	-	-	-
Lead	0.00155	0.0031	-	-	-
Antimony	-	-	-	-	-
Selenium	0.000833	0.00167	-	-	-
Zinc	0.0155	0.031	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	404	808	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	6.28
Conductivity (µS/cm)	803.00
Temperature (°C)	20.10
Volume Leachant (Litres)	0.262
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.264	**Moisture Content Ratio (%)**	50.4
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	66.5
Particle Size <4mm	>95%		

Case	
SDG	100712-18
Lab Sample Number(s)	1805736
Sampled Date	08-Jul-2010
Customer Sample Ref.	TP137
Depth (m)	2.00

Solid Waste Analysis

Total Organic Carbon (%)	16.9	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	3.71	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	Conc^n in 2:1 eluate C_2	2:1 conc^n leached A_2	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	mg/l	mg/kg			
Beryllium	<0.00007	<0.00014	-	-	-
Boron	0.104	0.208	-	-	-
pH	6.7	13	-	-	-
Total Cyanide (W)	2.36	4.72	-	-	-
Vanadium	0.000799	0.0016	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	6.28
Conductivity (µS/cm)	803.00
Temperature (°C)	20.10
Volume Leachant (Litres)	0.262
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.188	**Moisture Content Ratio (%)**	7.30
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	93.2
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805932			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	WS3			
Depth (m)	0.10 - 0.90			

Solid Waste Analysis

Total Organic Carbon (%)	1.55	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	8.52	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00581	0.0116	-	-	-
Barium	0.0726	0.145	-	-	-
Cadmium	<0.0001	<0.0002	-	-	-
Chromium	0.00353	0.00706	-	-	-
Copper	0.018	0.036	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00545	0.0109	-	-	-
Lead	0.000735	0.00147	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00702	0.014	-	-	-
Zinc	0.00418	0.00836	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	257	514	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	7.99
Conductivity (µS/cm)	708.00
Temperature (ºC)	20.00
Volume Leachant (Litres)	0.337
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.188	**Moisture Content Ratio (%)**	7.30
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	93.2
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1805932			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	WS3			
Depth (m)	0.10 - 0.90			

Solid Waste Analysis

Total Organic Carbon (%)	1.55	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	8.52	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	<0.00007	<0.00014	-	-	-
Boron	0.396	0.792	-	-	-
pH	8.4	17	-	-	-
Total Cyanide (W)	0.09	0.18	-	-	-
Vanadium	0.013	0.026	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	7.99
Conductivity (µS/cm)	708.00
Temperature (°C)	20.00
Volume Leachant (Litres)	0.337
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.197	**Moisture Content Ratio (%)**	12.8
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	88.7
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1806152			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	WS4			
Depth (m)	0.10 - 0.50			

Solid Waste Analysis

Total Organic Carbon (%)	9.25	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	8.11	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00263	0.00526	-	-	-
Barium	0.0615	0.123	-	-	-
Cadmium	0.000347	0.000694	-	-	-
Chromium	0.00581	0.0116	-	-	-
Copper	0.0126	0.0252	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00407	0.00814	-	-	-
Lead	0.00194	0.00388	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00241	0.00482	-	-	-
Zinc	0.00236	0.00472	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	66	132	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	8.24
Conductivity (µS/cm)	341.00
Temperature (ºC)	20.70
Volume Leachant (Litres)	0.328
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.197	**Moisture Content Ratio (%)**	12.8
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	88.7
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1806152			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	WS4			
Depth (m)	0.10 - 0.50			

Solid Waste Analysis

Total Organic Carbon (%)	9.25	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	8.11	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	<0.00007	<0.00014	-	-	-
Boron	0.0531	0.106	-	-	-
pH	8.5	17	-	-	-
Total Cyanide (W)	1.24	2.48	-	-	-
Vanadium	0.0031	0.0062	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	8.24
Conductivity (µS/cm)	341.00
Temperature (°C)	20.70
Volume Leachant (Litres)	0.328
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.197	**Moisture Content Ratio (%)**	12.3
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	89.0
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1806302			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	WS6			
Depth (m)	0.30 - 1.00			

Solid Waste Analysis

Total Organic Carbon (%)	23.6	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	<0.01	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	8.11	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.0011	0.0022	-	-	-
Barium	0.0336	0.0672	-	-	-
Cadmium	<0.0001	<0.0002	-	-	-
Chromium	0.00297	0.00594	-	-	-
Copper	0.00486	0.00972	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00196	0.00392	-	-	-
Lead	0.000045	0.00009	-	-	-
Antimony	-	-	-	-	-
Selenium	0.0037	0.0074	-	-	-
Zinc	0.00142	0.00284	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	97.8	196	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	7.59
Conductivity (µS/cm)	384.00
Temperature (ºC)	17.90
Volume Leachant (Litres)	0.328
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference		**Client Location**	THE DOVE WAY-NTE285
Mass Sample taken (kg)	0.197	**Moisture Content Ratio (%)**	12.3
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	89.0
Particle Size <4mm	>95%		

Case				
SDG	100712-18			
Lab Sample Number(s)	1806302			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	WS6			
Depth (m)	0.30 - 1.00			

Solid Waste Analysis

Total Organic Carbon (%)	23.6	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	<0.01	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	8.11	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	<0.00007	<0.00014	-	-	-
Boron	0.0885	0.177	-	-	-
pH	8.3	17	-	-	-
Total Cyanide (W)	1.89	3.78	-	-	-
Vanadium	0.00179	0.00358	-	-	-

Leach Test Information

Date Prepared	16-Jul-2010
pH (pH Units)	7.59
Conductivity (µS/cm)	384.00
Temperature (°C)	17.90
Volume Leachant (Litres)	0.328
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

Table of Results - Appendix

SDG Number : 100712-18 **Client :** BWB Consulting **Client Ref :**

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10-7

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample [1]
PM001		Preparation of Samples for Metals Analysis	Dry
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material	Wet
PM114		Leaching Procedure for CEN Two Stage BatchTest 2:1/8:1 Cumulative	
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step	
TM001	In - house Method	Determination of asbestos containing material by screening on solids	
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC	Wet
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)	
TM098	Method 4500E, AWWA/APHA, 20th Ed., 1999	Determination of Sulphate using the Kone Analyser	Dry
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	
TM132	In - house Method	ELTRA CS800 Operators Guide	Dry
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	Wet
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser	Wet
TM154	In - house Method	Determination of Petroleum Hydrocarbons by EZ Flash GC-FID in the Carbon range C6- C40	Wet
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID	Dry
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES	Dry
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry	
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	Dry
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546	Wet
TM222	In-House Method	Determination of Hot Water Soluble Boron in Soils (10:1 Water:soil) by IRIS Emission Spectrometer	Dry
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate	
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter	

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Notification of NDPs (No determination possible)

SDG Number	100712-18	**Location**	THE DOVE WAY-NTE285
Client	H_BWB_NTT	**Order No.**	NE09/616
Client Reference		**Report No.**	53069-1
Attention	Richard Robinson	**Date Received**	12/07/2010 08:34:21

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
1805736	TP137	2.00	Total Sulphur	Sample unsuitable for analysis

APPENDIX

APPENDIX

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH_4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.
2. Samples will be run in duplicate upon request, but an additional charge may be incurred.
3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.
4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.
5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.
6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.
7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample – similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.
8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.
9. NDP – No determination possible due to insufficient/unsuitable sample.
10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals – total metals must be requested separately.
11. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.
12. Results relate only to the items tested
13. **Surrogate recoveries –** Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 – 130 %.
14. **Product analyses –** Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.
15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).
16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).
17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.
18. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.
19. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.
19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.
20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.
21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.
22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials – whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.
23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 – C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GS MS
SVOC	DCM	LIQUID/LIQUID SHAKE	GC MS
FREE SULPHUR	DCM	SOLID PHASE EXTRACTION	HPLC
PEST OCP/OPP	DCM	LIQUID/LIQUID SHAKE	GC MS
TRIAZINE HERBS	DCM	LIQUID/LIQUID SHAKE	GC MS
PHENOLS MS	DCM	SOLID PHASE EXTRACTION	GC MS
TPH by INFRA RED (IR)	TCE	LIQUID/LIQUID EXTRACTION	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID EXTRACTION	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GC FID

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
Solvent Extractable Matter	D&C	DCM	SOXTHERM	GRAVIMETRIC
Cyclohexane Ext. Matter	D&C	CYCLOHEXANE	SOXTHERM	GRAVIMETRIC
Thin Layer Chromatography	D&C	DCM	SOXTHERM	IATROSCAN
Elemental Sulphur	D&C	DCM	SOXTHERM	HPLC
Phenols by GCMS	WET	DCM	SOXTHERM	GC-MS
Herbicides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
Pesticides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
EPH (DRO)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Min oil)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Cleaned up)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH CWG by GC	D&C	HEXANE:ACETONE	END OVER END	GC-FID
PCB tot / PCB con	D&C	HEXANE:ACETONE	END OVER END	GC-MS
Polyaromatic Hydrocarbons (MS)	WET	HEXANE:ACETONE	Microwave TM218.	GC-MS
C8-C40 (C6-C40)EZ Flash	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Polyaromatic Hydrocarbons Rapid GC	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Semi Volatile Organic Compounds	WET	DCM:ACETONE	SONICATE	GC-MS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content.

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -

Trace – Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in MDHS 100.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

ALcontrol Laboratories

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: mkt@alcontrol.com
Website: www.alcontrol.com

BWB Consulting
3-4 Kayes Walk
The Lace Market
Nottingham
Nottinghamshire
NG1 1PY

Attention: Richard Robinson

CERTIFICATE OF ANALYSIS

Date:	21 July 2010		
Customer:	H_BWB_NTT-81		
Sample Delivery Group (SDG):	100708-104	**Report No.:**	91025
Your Reference:	NTE 285		
Location:	THE DOVE WAY UTTOXETER		

We received 49 samples on Thursday July 08, 2010 and 28 of these samples were scheduled for analysis which was completed on Wednesday July 21, 2010. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Iain Swinton

Operations Director - Land UK & Ireland

MCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

UKAS TESTING

1291

GROUP

Validated

ALcontrol Laboratories Analytical Services

SDG:	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Sampled Date
1795358	TP101	0.20	05/07/2010
1795377	TP101	2.00	05/07/2010
1795474	TP102	1.00	05/07/2010
1795508	TP103	0.50	05/07/2010
1795533	TP103	2.00	05/07/2010
1795553	TP104	0.60	05/07/2010
1795581	TP105	0.70	05/07/2010
1795611	TP105	2.80	05/07/2010
1795655	TP106		05/07/2010
1795636	TP106	0.20	05/07/2010
1795674	TP107	0.60	05/07/2010
1795713	TP107	1.30	05/07/2010
1795808	TP108	0.50	06/07/2010
1795815	TP108	2.20	06/07/2010
1796216	TP110	0.80	07/07/2010
1796239	TP110	2.60	07/07/2010
1796247	TP111	0.40	07/07/2010
1796796	TP111	2.80	07/07/2010
1796270	TP112	0.80	07/07/2010
1796289	TP112	2.80	07/07/2010
1796306	TP113	0.30	07/07/2010
1796353	TP113	3.00	07/07/2010
1796622	TP116	0.20	07/07/2010
1796327	TP116	1.80	07/07/2010
1795825	TP124	0.80	06/07/2010
1795821	TP124	1.80	06/07/2010
1795848	TP125	0.50	06/07/2010
1796508	TP125	1.70	06/07/2010
1796957	TP125	2.20	06/07/2010
1796053	TP126	0.30	06/07/2010
1796418	TP126	2.20	06/07/2010
1796032	TP127	1.10	06/07/2010
1796087	TP127	2.00	06/07/2010
1796743	TP128	0.40	06/07/2010
1796970	TP128	0.50	06/07/2010
1796662	TP128	1.50	06/07/2010
1796720	TP129	0.60	06/07/2010
1796809	TP129	1.80	06/07/2010
1796767	TP130	0.20	06/07/2010
1796471	TP130	1.70	06/07/2010
1796700	TP131	0.75	06/07/2010
1796382	TP131	1.50	06/07/2010
1796784	TP132	0.60	06/07/2010

Validated

ALcontrol Laboratories Analytical Services

SDG:	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

1796587	TP133	0.60	06/07/2010
1796440	TP133	1.80	06/07/2010
1796915	WS2	0.10 - 0.80	07/07/2010
1796928	WS2	1.10 - 1.50	07/07/2010

Only received samples which have had analysis scheduled will be shown on the following pages.

Validated

ALcontrol Laboratories Analytical Services

SDG:	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)		1795358		1795474		1795533		1795581		1795636		1795674		1795821		1795825		1796087		1796216		1796247	
Customer Sample Ref.		TP101		TP102		TP103		TP105		TP106		TP107		TP124		TP124		TP127		TP110		TP111	
Depth (m)		0.20		1.00		2.00		0.70		0.20		0.60		1.80		0.80		2.00		0.80		0.40	
Container		250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	60g VOC	1kg TUB	250g Amber Jar	250g Amber Jar	400g Tub	1kg TUB	250g Amber Jar	1kg TUB	250g Amber Jar
Anions by Kone (w)	All						X												X			X	
Asbestos Containing Material Screen	All																			X			
Boron Water Soluble	All	X		X				X		X		X					X				X		
CEN Readings	All						X												X			X	
Cyanide Complex/Free/Total/Thiocyan	All						X												X			X	
Cyanides Complex/Free/Total/Thiocya	Cyanide, Complex		X		X				X		X		X			X				X			
	Cyanide, Free		X		X				X		X		X			X				X			
	Cyanide, Total		X		X				X		X		X			X				X			
Dissolved Metals by ICP-MS	All						X												X			X	
EPH CWG (Aliphatic) GC (S)	All													X									
EPH CWG (Aromatic) GC (S)	All													X									
GRO BTEX MTBE GC (S)	All														X								
Mercury Dissolved	All						X												X			X	
Metals by iCap-OES (Soil)	Arsenic	X		X				X		X		X					X				X		
	Barium	X		X				X		X		X					X				X		
	Beryllium	X		X				X		X		X					X				X		
	Cadmium	X		X				X		X		X					X				X		
	Chromium	X		X				X		X		X					X				X		
	Copper	X		X				X		X		X					X				X		
	Lead	X		X				X		X		X					X				X		
	Mercury	X		X				X		X		X					X				X		
	Nickel	X		X				X		X		X					X				X		
	Selenium	X		X				X		X		X					X				X		

Lab Sample No(s)		1796270		1796289		1796327		1796353		1796418			1796508		1796587			1796622		1796662		[illegible]
Customer Sample Ref.		TP112		TP112		TP116		TP113		TP126			TP125		TP133			TP116		TP128		
Depth (m)		0.80		2.80		1.80		3.00		2.20			1.70		0.60			0.20		1.50		
Container		250g Amber Jar	60g VOC	250g Amber Jar	400g Tub	250g Amber Jar	60g VOC	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	60g VOC	250g Amber Jar	60g VOC	1kg TUB	250g Amber Jar	60g VOC	1kg TUB	250g Amber Jar	250g Amber Jar	400g Tub	250g Amber Jar
Anions by Kone (w)	All				X										X							
Asbestos Containing Material Screen	All																					
Boron Water Soluble	All			X				X		X						X			X	X		
CEN Readings	All				X										X							
Cyanide Complex/Free/Total/Thiocyan	All				X										X							
Cyanides Complex/Free/Total/Thiocya	Cyanide, Complex				X				X		X				X			X			X	
	Cyanide, Free				X				X		X				X			X			X	
	Cyanide, Total				X				X		X				X			X			X	
Dissolved Metals by ICP-MS	All				X										X							
EPH CWG (Aliphatic) GC (S)	All	X				X				X			X			X						X
EPH CWG (Aromatic) GC (S)	All	X				X				X			X			X						X
GRO BTEX MTBE GC (S)	All		X				X					X		X			X					
Mercury Dissolved	All				X										X							
Metals by iCap-OES (Soil)	Arsenic			X				X		X						X			X	X		
	Barium			X				X		X						X			X	X		
	Beryllium			X				X		X						X			X	X		
	Cadmium			X				X		X						X			X	X		
	Chromium			X				X		X						X			X	X		
	Copper			X				X		X						X			X	X		
	Lead			X				X		X						X			X	X		
	Mercury			X				X		X						X			X	X		
	Nickel			X				X		X						X			X	X		
	Selenium			X				X		X						X			X	X		

Total				0 6	0 2	0 20	0 6	0 6	0 20	0 20	0 20	0 6	0 9	0 9	0 9	0 6	0 20	0 20	0 20	0 20	0 20	0 20	0 20	0 20	0 20	0 20
1796928	WS2	1.10 - 1.50	60g VOC												X											
			250g Amber Jar			X							X	X			X	X	X	X	X	X	X	X	X	X
			1kg TUB						X	X	X															
1796915	WS2	0.10 - 0.80	400g Tub						X	X	X															
			250g Amber Jar			X											X	X	X	X	X	X	X	X	X	X
1796809	TP129	1.80	400g Tub						X	X	X															
			250g Amber Jar			X											X	X	X	X	X	X	X	X	X	X
1796796	TP111	2.80	400g Tub						X	X	X															
			250g Amber Jar			X											X	X	X	X	X	X	X	X	X	X
1796784	TP132	0.60	60g VOC												X											
			250g Amber Jar			X							X	X			X	X	X	X	X	X	X	X	X	X
			1kg TUB						X	X	X															
1796767	TP130	0.20	250g Amber Jar			X											X	X	X	X	X	X	X	X	X	X
			1kg TUB	X	X		X	X	X	X	X	X				X										
1796743	TP128	0.40	250g Amber Jar			X											X	X	X	X	X	X	X	X	X	X

Validated

ALcontrol Laboratories Analytical Services

SDG:	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

		1795358	1795474	1795533	1795581	1795636	1795674	1795821	1795825	1796087	1796216	1796247	1796270	1796289	1796327	1796353	1796418	1796508	1796587	1796622	1796662	
		TP101	TP102	TP103	TP105	TP106	TP107	TP124	TP124	TP127	TP110	TP111	TP112	TP112	TP116	TP113	TP126	TP125	TP133	TP116	TP128	
		0.20	1.00	2.00	0.70	0.20	0.60	1.80	0.80	2.00	0.80	0.40	0.80	2.80	1.80	3.00	2.20	1.70	0.60	0.20	1.50	
		250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	400g Tub	250g Amber Jar	60g VOC	1kg TUB	250g Amber Jar	400g Tub	1kg TUB	250g Amber Jar	60g VOC	250g Amber Jar	400g Tub	250g Amber Jar	60g VOC	1kg TUB	250g Amber Jar	250g Amber Jar	400g Tub	250g Amber Jar
Metals by iCap-OES (Soil)	Vanadium	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Zinc	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pH Value	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phenols by HPLC (S)	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sample description	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Sulphur	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TPH C6-C40 Value of soil	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Water Soluble Sulphate 2:1	All	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Total				0 20	0 20	0 20	0 20	0 6	0 20	0 28	0 20	0 20	0 20	0 9	0 1	0 20
1796928	WS2	1.10 - 1.50	60g VOC													
			250g Amber Jar	X	X	X				X	X	X	X	X		X
			1kg TUB				X		X							
1796915	WS2	0.10 - 0.80	400g Tub				X		X							
			250g Amber Jar	X	X	X				X	X	X	X			X
1796809	TP129	1.80	400g Tub				X		X							
			250g Amber Jar	X	X	X				X	X	X	X			X
1796796	TP111	2.80	400g Tub				X		X							
			250g Amber Jar	X	X	X				X	X	X	X			X
1796784	TP132	0.60	60g VOC													
			250g Amber Jar	X	X	X				X	X	X	X	X		X
			1kg TUB				X		X							
1796767	TP130	0.20	250g Amber Jar	X	X	X				X	X	X	X			X
			1kg TUB				X	X	X							
1796743	TP128	0.40	250g Amber Jar	X	X	X				X	X	X	X			X

Validated

ALcontrol Laboratories Analytical Services

SDG:	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

Sample Descriptions

Grain Sizes:
<0.063mm very fine,
0.063mm - 0.1mm fine,
0.1mm - 2mm medium,
2mm - 10mm coarse,
>10mm very coarse

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions
1795358	TP101	0.20	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones
1795474	TP102	1.00	Light Brown	Clay	<0.063 mm	Vegetation
1795533	TP103	2.00	Dark Brown	Sand	0.1 - 2 mm	Stones
1795581	TP105	0.70	Orange	Silty Clay	0.063 - 0.1 mm	N/A
1795636	TP106	0.20	Dark Brown	Silt Loam	0.063 - 0.1 mm	Vegetation
1795674	TP107	0.60	Light Brown	Clay Loam	<0.063 mm	None
1795821	TP124	1.80	Dark Brown	Sand	0.1 - 2 mm	Stones
1795825	TP124	0.80	Dark Brown	Silty Clay	0.063 - 0.1 mm	N/A
1796087	TP127	2.00	Light Brown	Sand	0.1 - 2 mm	Stones
1796216	TP110	0.80	Black	Silt	<0.063 mm	N/A
1796247	TP111	0.40	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones
1796270	TP112	0.80	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones
1796289	TP112	2.80	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones
1796327	TP116	1.80	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones
1796353	TP113	3.00	Light Brown	Silty Sand	0.063 - 0.1 mm	Stones
1796418	TP126	2.20	Dark Brown	Sandy Clay	0.063 - 0.1 mm	Stones
1796508	TP125	1.70	Light Brown	Silty Sand	0.063 - 0.1 mm	Stones
1796587	TP133	0.60	Orange	Sand	0.1 - 2 mm	Stones
1796622	TP116	0.20	Light Brown	Clay Loam	0.063 - 0.1 mm	Stones
1796662	TP128	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones
1796720	TP129	0.60	Light Brown	Clay Loam	0.063 - 0.1 mm	Vegetation
1796743	TP128	0.40	Light Brown	Clay	<0.063 mm	N/A
1796767	TP130	0.20	Light Brown	Silty Sand	0.1 - 2 mm	Brick
1796784	TP132	0.60	Light Brown	Silty Clay	0.063 - 0.1 mm	N/A
1796796	TP111	2.80	Light Brown	Clay Loam	0.063 - 0.1 mm	Stones
1796809	TP129	1.80	Dark Brown	Silt Loam	0.063 - 0.1 mm	Stones
1796915	WS2	0.10 - 0.80	Light Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones
1796928	WS2	1.10 - 1.50	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones

Validated

ALcontrol Laboratories Analytical Services

SDG:	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Validated

ALcontrol Laboratories Analytical Services

SDG:	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

Test Completion dates

SDG reference: 100708-104

Lab Sample No(s)	1795358	1795474	1795533	1795581	1795636	1795674	1795821	1795825	1796087	1796216	1796247	1796270
Customer Sample Ref.	TP101	TP102	TP103	TP105	TP106	TP107	TP124	TP124	TP127	TP110	TP111	TP112
Depth	0.20	1.00	2.00	0.70	0.20	0.60	1.80	0.80	2.00	0.80	0.40	0.80
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Anions by Kone (w)			15/07/2010						15/07/2010		16/07/2010	
Asbestos Containing Material Screen										14/07/2010		
Boron Water Soluble	14/07/2010	14/07/2010		14/07/2010	15/07/2010	15/07/2010		16/07/2010		16/07/2010		
CEN Readings			16/07/2010						16/07/2010		16/07/2010	
Cyanide Comp/Free/Total/Thiocyanate	14/07/2010	15/07/2010	16/07/2010	14/07/2010	15/07/2010	15/07/2010		16/07/2010	16/07/2010	15/07/2010	16/07/2010	
Dissolved Metals by ICP-MS			16/07/2010						16/07/2010		16/07/2010	
EPH CWG (Aliphatic) GC (S)							20/07/2010					19/07/2010
EPH CWG (Aromatic) GC (S)							20/07/2010					19/07/2010
GRO BTEX MTBE GC (S)							19/07/2010					20/07/2010
Mercury Dissolved			16/07/2010						16/07/2010		16/07/2010	
Metals by iCap-OES (Soil)	15/07/2010	15/07/2010		15/07/2010	16/07/2010	15/07/2010		15/07/2010		15/07/2010		
Moisture Meter			14/07/2010						14/07/2010		14/07/2010	
PAH by GCMS	14/07/2010	14/07/2010		14/07/2010	15/07/2010	15/07/2010		15/07/2010		16/07/2010		
pH	14/07/2010	14/07/2010		14/07/2010	15/07/2010	15/07/2010		15/07/2010		14/07/2010		
pH Value			15/07/2010						15/07/2010		16/07/2010	
Phenols by HPLC (S)	14/07/2010	14/07/2010		15/07/2010	15/07/2010	15/07/2010		16/07/2010		15/07/2010		
Sample description	13/07/2010	13/07/2010	13/07/2010	13/07/2010	14/07/2010	14/07/2010	14/07/2010	14/07/2010	13/07/2010	14/07/2010	13/07/2010	14/07/2010
Total Organic Carbon	15/07/2010	15/07/2010		15/07/2010	15/07/2010	15/07/2010		19/07/2010		19/07/2010		
Total Sulphur	15/07/2010	15/07/2010		14/07/2010	15/07/2010	15/07/2010		16/07/2010		16/07/2010		
TPH c6-40 Value of soil	15/07/2010	15/07/2010		15/07/2010	16/07/2010	16/07/2010		16/07/2010		16/07/2010		
TPH CWG GC (S)							21/07/2010					20/07/2010
VOC MS (S)												20/07/2010
Water Soluble Sulphate 2:1	14/07/2010	14/07/2010		14/07/2010	15/07/2010	15/07/2010		15/07/2010		15/07/2010		

1796289	1796327	1796353	1796418	1796508	1796587	1796622	1796662	1796720	1796743	1796767	1796784	1796796	1796809	1796915
TP112	TP116	TP113	TP126	TP125	TP133	TP116	TP128	TP129	TP128	TP130	TP132	TP111	TP129	WS2
2.80	1.80	3.00	2.20	1.70	0.60	0.20	1.50	0.60	0.40	0.20	0.60	2.80	1.80	0.10 - 0.80
SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
16/07/2010					15/07/2010					16/07/2010				
										14/07/2010				
16/07/2010		16/07/2010	15/07/2010		15/07/2010	16/07/2010	16/07/2010		16/07/2010	15/07/2010	15/07/2010	16/07/2010	16/07/2010	16/07/2010
16/07/2010					16/07/2010					16/07/2010				
16/07/2010		15/07/2010	16/07/2010		16/07/2010	15/07/2010	15/07/2010		15/07/2010	16/07/2010	15/07/2010	16/07/2010	16/07/2010	16/07/2010
16/07/2010					16/07/2010					16/07/2010				
	16/07/2010		16/07/2010	16/07/2010	16/07/2010			20/07/2010			16/07/2010			
	16/07/2010		16/07/2010	16/07/2010	16/07/2010			20/07/2010			16/07/2010			
	21/07/2010		19/07/2010	20/07/2010	19/07/2010			20/07/2010			20/07/2010			
16/07/2010					16/07/2010					16/07/2010				
15/07/2010		15/07/2010	15/07/2010		15/07/2010	16/07/2010	16/07/2010		15/07/2010	15/07/2010	15/07/2010	16/07/2010	15/07/2010	15/07/2010
14/07/2010					14/07/2010					14/07/2010				
15/07/2010		15/07/2010	15/07/2010		15/07/2010	16/07/2010	16/07/2010		15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
14/07/2010		15/07/2010	15/07/2010		15/07/2010	15/07/2010	15/07/2010		14/07/2010	14/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
16/07/2010					15/07/2010					16/07/2010				
15/07/2010		16/07/2010	15/07/2010		15/07/2010	16/07/2010	16/07/2010		15/07/2010	15/07/2010	15/07/2010	16/07/2010	15/07/2010	15/07/2010
13/07/2010	14/07/2010	14/07/2010	14/07/2010	14/07/2010	13/07/2010	14/07/2010	14/07/2010	14/07/2010	14/07/2010	13/07/2010	14/07/2010	14/07/2010	14/07/2010	14/07/2010
19/07/2010		19/07/2010	19/07/2010		19/07/2010	19/07/2010	19/07/2010		19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010
16/07/2010		16/07/2010	15/07/2010		15/07/2010	16/07/2010	16/07/2010		16/07/2010	15/07/2010	15/07/2010	16/07/2010	16/07/2010	16/07/2010
16/07/2010		16/07/2010	16/07/2010		16/07/2010	16/07/2010	16/07/2010		16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010
	21/07/2010		19/07/2010	20/07/2010	19/07/2010			20/07/2010			20/07/2010			
15/07/2010		15/07/2010	15/07/2010		15/07/2010	16/07/2010	16/07/2010		15/07/2010	15/07/2010	15/07/2010	16/07/2010	15/07/2010	15/07/2010

1796928
WS2
1.10 - 1.50
SOLID
16/07/2010
16/07/2010
20/07/2010
20/07/2010
19/07/2010
15/07/2010
20/07/2010
15/07/2010
15/07/2010
14/07/2010
19/07/2010
16/07/2010
16/07/2010
20/07/2010
15/07/2010

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP101	TP102	TP103	TP105	TP106	TP107
			Depth (m)	0.20	1.00	2.00	0.70	0.20	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	05/07/2010	05/07/2010	05/07/2010	05/07/2010	05/07/2010	05/07/2010
			Date Received	08/07/2010	08/07/2010	08/07/2010	08/07/2010	08/07/2010	08/07/2010
			SDG Ref	100708-104	100708-104	100708-104	100708-104	100708-104	100708-104
			Lab Sample No.(s)	1795358	1795474	1795533	1795581	1795636	1795674
Moisture	%	PM114				15.4			
Moisture content ratio	%	PM114				18.2			
Dry matter content ratio	%	PM114				84.6			
Phenols, Total monohydric	<0.22 mg/kg	TM062 (S)		<0.22 M	<0.22 M		<0.22 M	<0.22 M	<0.22 M
Sulphate, 2:1 water soluble	<0.003 g/l	TM098		0.0046 M	0.0342 M		0.0218 M	0.008 M	0.0324 M
Sulphur, Total	<0.02 %	TM132		0.07 #	0.03 #		0.02 #	0.05 #	<0.02 #
Fraction Organic Carbon (FOC)	<0.002 -	TM132		0.0519 #	0.0065 #		0.0063 #	0.0593 #	0.0072 #
pH	1 pH Units	TM133		7.48 M	6.56 M		7.18 M	6.01 M	7.71 M
Cyanide, Total	<1 mg/kg	TM153		1.52 M	<1 M		<1 M	<1 M	<1 M
Cyanide, Free	<1 mg/kg	TM153		<1	<1		<1	<1	<1
Cyanide, Complex	<1 mg/kg	TM153		1.45	<1		<1	<1	<1
TPH >C6-C40	<10 mg/kg	TM154		2120 #	55.2 #		48 #	299 #	215 #
Arsenic	<0.6 mg/kg	TM181		16.4 M	12.5 M		15.2 M	18.2 M	10 M
Barium	<0.6 mg/kg	TM181		499 #	328 #		380 #	446 #	311 #
Beryllium	<0.01 mg/kg	TM181		1.74 M	1.54 M		1.59 M	2.46 M	1.5 M
Cadmium	<0.02 mg/kg	TM181		1.17 M	<0.02 M		<0.02 M	0.685 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		39.1 M	39.6 M		37.3 M	34.2 M	37.8 M
Copper	<1.4 mg/kg	TM181		80.9 M	19.5 M		18.4 M	74.7 M	15.6 M
Lead	<0.7 mg/kg	TM181		255 M	19.8 M		24 M	191 M	19.5 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M		<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		33.7 M	32.2 M		36.5 M	32.2 M	28.7 M
Selenium	<1 mg/kg	TM181		1.65 #	1.93 #		1.46 #	1.58 #	1.23 #
Vanadium	<0.2 mg/kg	TM181		47.4 #	49.4 #		48 #	45.4 #	46.4 #
Zinc	<1.9 mg/kg	TM181		339 M	130 M		118 M	323 M	104 M
Boron, water soluble	<1 mg/kg	TM222		1.73 M	<1 M		<1 M	1.14 M	1.16 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP101	TP102	TP105	TP106	TP107
			Depth (m)	0.20	1.00	0.70	0.20	0.60
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	05/07/2010	05/07/2010	05/07/2010	05/07/2010	05/07/2010
			Date Received	08/07/2010	08/07/2010	08/07/2010	08/07/2010	08/07/2010
			SDG Ref	100708-104	100708-104	100708-104	100708-104	100708-104
			Lab Sample No.(s)	1795358	1795474	1795581	1795636	1795674
Naphthalene-d8 % recovery**	%	TM218		100	95.2	98.1	93.2	96.8
Acenaphthene-d10 % recovery**	%	TM218		97.7	93.5	95.3	91.3	95.6
Phenanthrene-d10 % recovery**	%	TM218		97.3	92.3	93.5	91.1	94.9
Chrysene-d12 % recovery**	%	TM218		93.5	85.8	88	85.9	87.8
Perylene-d12 % recovery**	%	TM218		98.6	89.8	90	86.4	84.4
Naphthalene	<9 µg/kg	TM218		180 M	<9 M	<9 M	47.3 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		296 M	<12 M	<12 M	37.3 M	<12 M
Acenaphthene	<8 µg/kg	TM218		98 M	<8 M	<8 M	33.9 M	<8 M
Fluorene	<10 µg/kg	TM218		110 M	<10 M	<10 M	25.5 M	<10 M
Phenanthrene	<15 µg/kg	TM218		1730 M	<15 M	<15 M	633 M	<15 M
Anthracene	<16 µg/kg	TM218		643 M	<16 M	<16 M	163 M	<16 M
Fluoranthene	<17 µg/kg	TM218		6260 M	44 M	<17 M	1510 M	<17 M
Pyrene	<15 µg/kg	TM218		5510 M	39 M	<15 M	1230 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		3450 M	18.2 M	<14 M	652 M	<14 M
Chrysene	<10 µg/kg	TM218		3000 M	24.9 M	<10 M	631 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		5270 M	45.1 M	<15 M	971 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		2170 M	21.5 M	<14 M	299 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		4430 M	31.6 M	<15 M	649 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		3330 M	24.9 M	<18 M	416 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		811 M	<23 M	<23 M	120 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		3890 M	30.3 M	<24 M	472 M	<24 M
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		41200 M	280 M	<118 M	7890 M	<118 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP110	TP111	TP111	TP112	TP113
			Depth (m)	0.80	0.40	2.80	2.80	3.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	07/07/2010	07/07/2010	07/07/2010	07/07/2010	07/07/2010
			Date Received	08/07/2010	08/07/2010	08/07/2010	08/07/2010	08/07/2010
			SDG Ref	100708-104	100708-104	100708-104	100708-104	100708-104
			Lab Sample No.(s)	1796216	1796247	1796796	1796289	1796353
Moisture	%	PM114			16.7		21.2	
Moisture content ratio	%	PM114			20.1		27	
Dry matter content ratio	%	PM114			83.3		78.8	
Asbestos Containing Material Screen	-	TM001		No ACM Detected				
Phenols, Total monohydric	<0.22 mg/kg	TM062 (S)		<0.22 #		<0.22 M	<0.22 M	<0.22 M
Sulphate, 2:1 water soluble	<0.003 g/l	TM098		0.0439 #		0.0741 M	0.0293 M	0.08 M
Sulphur, Total	<0.02 %	TM132		0.16 #		0.05 #	0.03 #	0.03 #
Fraction Organic Carbon (FOC)	<0.002 -	TM132		0.154 #		0.00899 #	0.00434 #	0.00456 #
pH	1 pH Units	TM133		7.59 #		7.1 M	6.98 M	7.17 M
Cyanide, Total	<1 mg/kg	TM153		<1 #		<1 M	<1 M	<1 M
Cyanide, Free	<1 mg/kg	TM153		<1		<1	<1	<1
Cyanide, Complex	<1 mg/kg	TM153		<1		<1	<1	<1
TPH >C6-C40	<10 mg/kg	TM154		538 #		126 #	815 #	114 #
Arsenic	<0.6 mg/kg	TM181		7.38 #		10.1 M	10.5 M	7.45 M
Barium	<0.6 mg/kg	TM181		307 #		262 #	236 #	73.9 #
Beryllium	<0.01 mg/kg	TM181		0.75 #		1.26 M	0.858 M	0.642 M
Cadmium	<0.02 mg/kg	TM181		0.151 #		0.0373 M	<0.02 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		9.08 #		29.9 M	24.2 M	12 M
Copper	<1.4 mg/kg	TM181		22.1 #		23.4 M	15.7 M	12.2 M
Lead	<0.7 mg/kg	TM181		11.9 #		67.3 M	20 M	19.7 M
Mercury	<0.14 mg/kg	TM181		<0.14 #		<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		10.5 #		26.3 M	24.3 M	10.9 M
Selenium	<1 mg/kg	TM181		<1 #		1.32 #	1.28 #	<1 #
Vanadium	<0.2 mg/kg	TM181		7.28 #		37.4 #	27.8 #	18.3 #
Zinc	<1.9 mg/kg	TM181		48.8 #		156 M	66.6 M	48.6 M
Boron, water soluble	<1 mg/kg	TM222		1.52 #		4.19 M	4.31 M	1.23 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP110	TP111	TP112	TP113		
			Depth (m)	0.80	2.80	2.80	3.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	07/07/2010	07/07/2010	07/07/2010	07/07/2010		
			Date Received	08/07/2010	08/07/2010	08/07/2010	08/07/2010		
			SDG Ref	100708-104	100708-104	100708-104	100708-104		
			Lab Sample No.(s)	1796216	1796796	1796289	1796353		
Naphthalene-d8 % recovery**	%	TM218		103	99	104	104		
Acenaphthene-d10 % recovery**	%	TM218		105	96.3	104	102		
Phenanthrene-d10 % recovery**	%	TM218		102	95.3	102	100		
Chrysene-d12 % recovery**	%	TM218		86.8	86.6	96.8	95.6		
Perylene-d12 % recovery**	%	TM218		70.8	80.9	94.8	91.9		
Naphthalene	<9 µg/kg	TM218		1820 #	<9 M	17.3 M	<9 M		
Acenaphthylene	<12 µg/kg	TM218		16.8 #	<12 M	<12 M	<12 M		
Acenaphthene	<8 µg/kg	TM218		31.3 #	<8 M	90.7 M	<8 M		
Fluorene	<10 µg/kg	TM218		52.1 #	<10 M	149 M	<10 M		
Phenanthrene	<15 µg/kg	TM218		1820 #	34.8 M	457 M	<15 M		
Anthracene	<16 µg/kg	TM218		182 #	<16 M	131 M	<16 M		
Fluoranthene	<17 µg/kg	TM218		1120 #	102 M	108 M	<17 M		
Pyrene	<15 µg/kg	TM218		953 #	86.3 M	121 M	<15 M		
Benz(a)anthracene	<14 µg/kg	TM218		476 #	48.8 M	35.4 M	<14 M		
Chrysene	<10 µg/kg	TM218		456 #	48.3 M	36.3 M	<10 M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		740 #	45.8 M	29.8 M	<15 M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		172 #	21.7 M	<14 M	<14 M		
Benzo(a)pyrene	<15 µg/kg	TM218		397 #	29.5 M	22 M	<15 M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		206 #	<18 M	<18 M	<18 M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		73.8 #	<23 M	<23 M	<23 M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		629 #	<24 M	<24 M	<24 M		
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		9140 #	417 M	1200 M	<118 M		

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP112
			Depth (m)	0.80
			Sample Type	Soil/Solid
			Date Sampled	07/07/2010
			Date Received	08/07/2010
			SDG Ref	100708-104
			Lab Sample No.(s)	1796270
GRO Surrogate % recovery**	%	TM089		11
GRO >C5-C12	<44 µg/kg	TM089		665
Benzene	<10 µg/kg	TM089		<10 M
Ethylbenzene	<3 µg/kg	TM089		<3 M
Toluene	<2 µg/kg	TM089		<2 M
m,p-Xylene	<6 µg/kg	TM089		<6 M
o-Xylene	<3 µg/kg	TM089		<3 M
m,p,o-Xylene	<10 µg/kg	TM089		<10 M
BTEX, Total	<10 µg/kg	TM089		<10 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #
Aliphatics >C5-C6	<10 µg/kg	TM089		26.7
Aliphatics >C6-C8	<10 µg/kg	TM089		14.1
Aliphatics >C8-C10	<10 µg/kg	TM089		119
Aliphatics >C10-C12	<10 µg/kg	TM089		124
Aromatics >C6-C7	<10 µg/kg	TM089		<10
Aromatics >C7-C8	<10 µg/kg	TM089		<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		178
Aromatics >EC10-EC12	<10 µg/kg	TM089		186
Total Aliphatics >C5-C12	<10 µg/kg	TM089		283
Total Aromatics >C6-C12	<10 µg/kg	TM089		364
Aliphatics >C12-C16	<100 µg/kg	TM173		332000
Aliphatics >C16-C21	<100 µg/kg	TM173		4170000
Aliphatics >C16-C35	<100 µg/kg	TM173		17900000
Aliphatics >C21-C35	<100 µg/kg	TM173		13700000
Aliphatics >C35-C44	<100 µg/kg	TM173		672000
Aromatics >EC12-EC16	<100 µg/kg	TM173		18300
Aromatics >EC16-EC21	<100 µg/kg	TM173		338000
Aromatics >EC21-EC35	<100 µg/kg	TM173		1390000
Aromatics >EC35-EC44	<100 µg/kg	TM173		176000
Aromatics >EC40-EC44	<100 µg/kg	TM173		66400
Total Aliphatics >C12-C44	<100 µg/kg	TM173		18900000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1930000
Total Aliphatics >C5-35	<100 µg/kg	TM173		18200000
Total Aliphatics >C5-C44	<100 µg/kg	TM173		18900000
Total Aromatics >C5-35	<100 µg/kg	TM173		1750000
Total Aromatics >C6-C44	<100 µg/kg	TM173		1930000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		20000000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		20800000

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Customer Sample Ref.	TP112
Depth (m)	0.80
Sample Type	Soil/Solid
Date Sampled	07/07/2010
Date Received	08/07/2010
SDG Ref	100708-104
Lab Sample No.(s)	1796270

Component	LOD/Units	Method	
Dibromofluoromethane**	%	TM116	101
Toluene-d8**	%	TM116	75.6
4-Bromofluorobenzene**	%	TM116	149
Dichlorodifluoromethane	<4 µg/kg	TM116	<40 M
Chloromethane	<7 µg/kg	TM116	<70 #
Vinyl Chloride	<10 µg/kg	TM116	<100 #
Bromomethane	<13 µg/kg	TM116	<130 M
Chloroethane	<14 µg/kg	TM116	<140 M
Trichlorofluorormethane	<6 µg/kg	TM116	<60 M
1.1-Dichloroethene	<10 µg/kg	TM116	<100 #
Carbon Disulphide	<7 µg/kg	TM116	95 M
Dichloromethane	<10 µg/kg	TM116	<100 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<110 M
trans-1-2-Dichloroethene	<11 µg/kg	TM116	<110 M
1.1-Dichloroethane	<8 µg/kg	TM116	<80 M
cis-1-2-Dichloroethene	<5 µg/kg	TM116	<50 M
2.2-Dichloropropane	<12 µg/kg	TM116	<120 M
Bromochloromethane	<14 µg/kg	TM116	<140 M
Chloroform	<8 µg/kg	TM116	<80 M
1.1.1-Trichloroethane	<7 µg/kg	TM116	<70 M
1.1-Dichloropropene	<11 µg/kg	TM116	<110 M
Carbontetrachloride	<14 µg/kg	TM116	<140 M
1.2-Dichloroethane	<5 µg/kg	TM116	<50 M
Benzene	<9 µg/kg	TM116	<90 M
Trichloroethene	<9 µg/kg	TM116	<90 M
1.2-Dichloropropane	<12 µg/kg	TM116	<120 M
Dibromomethane	<9 µg/kg	TM116	<90 M
Bromodichloromethane	<7 µg/kg	TM116	<70 M
cis-1-3-Dichloropropene	<14 µg/kg	TM116	<140 M
Toluene	<5 µg/kg	TM116	<50 M
trans-1-3-Dichloropropene	<14 µg/kg	TM116	<140
1.1.2-Trichloroethane	<10 µg/kg	TM116	<100 M
1.3-Dichloropropane	<7 µg/kg	TM116	<70 #
Tetrachloroethene	<5 µg/kg	TM116	<50 M
Dibromochloromethane	<13 µg/kg	TM116	<130 M
1.2-Dibromoethane	<12 µg/kg	TM116	<120 M
Chorobenzene	<5 µg/kg	TM116	<50 M
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116	<100 M
Ethylbenzene	<4 µg/kg	TM116	<40 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Customer Sample Ref.	TP112
Depth (m)	0.80
Sample Type	Soil/Solid
Date Sampled	07/07/2010
Date Received	08/07/2010
SDG Ref	100708-104
Lab Sample No.(s)	1796270

Component	LOD/Units	Method	
p/m-Xylene	<14 µg/kg	TM116	<140 #
o-Xylene	<10 µg/kg	TM116	<100 M
Styrene	<10 µg/kg	TM116	<100 M
Bromoform	<10 µg/kg	TM116	<100 M
Isopropylbenzene	<5 µg/kg	TM116	<50 M
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116	<100 #
1.2.3-Trichloropropane	<17 µg/kg	TM116	<170 M
Bromobenzene	<10 µg/kg	TM116	<100 M
Propylbenzene	<11 µg/kg	TM116	<110 M
2-Chlorotoluene	<9 µg/kg	TM116	<90 M
1.3.5-Trimethylbenzene	<8 µg/kg	TM116	<80 #
4-Chlorotoluene	<12 µg/kg	TM116	<120 M
tert-Butylbenzene	<12 µg/kg	TM116	<120 #
1.2.4-Trimethylbenzene	<9 µg/kg	TM116	<90 #
sec-Butylbenzene	<10 µg/kg	TM116	<100 M
4-Isopropyltoluene	<11 µg/kg	TM116	<110 M
1.3-Dichlorobenzene	<6 µg/kg	TM116	<60 M
1.4-Dichlorobenzene	<5 µg/kg	TM116	<50 M
n-Butylbenzene	<10 µg/kg	TM116	<100 M
1.2-Dichlorobenzene	<12 µg/kg	TM116	<120 M
1.2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<140 M
Tert-amyl methyl ether	<15 µg/kg	TM116	<150
1.2.4-Trichlorobenzene	<6 µg/kg	TM116	<60 #
Hexachlorobutadiene	<12 µg/kg	TM116	<120 M
Naphthalene	<13 µg/kg	TM116	<130 M
1.2.3-Trichlorobenzene	<6 µg/kg	TM116	<60 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP116	TP124	TP126
			Depth (m)	0.20	0.80	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	07/07/2010	06/07/2010	06/07/2010
			Date Received	08/07/2010	08/07/2010	08/07/2010
			SDG Ref	100708-104	100708-104	100708-104
			Lab Sample No.(s)	1796622	1795825	1796418
Phenols, Total monohydric	<0.22 mg/kg	TM062 (S)		<0.22 M	<0.22 M	<0.22 M
Sulphate, 2:1 water soluble	<0.003 g/l	TM098		0.19 M	0.117 M	0.062 M
Sulphur, Total	<0.02 %	TM132		0.07 #	0.14 #	0.05 #
Fraction Organic Carbon (FOC)	<0.002 -	TM132		0.0238 #	0.0326 #	0.00288 #
pH	1 pH Units	TM133		8.15 M	6.5 M	6.51 M
Cyanide, Total	<1 mg/kg	TM153		<1 M	<1 M	<1 M
Cyanide, Free	<1 mg/kg	TM153		<1	<1	<1
Cyanide, Complex	<1 mg/kg	TM153		<1	<1	<1
TPH >C6-C40	<10 mg/kg	TM154		1530 #	493 #	<10 #
Arsenic	<0.6 mg/kg	TM181		13 M	7.89 M	11.1 M
Barium	<0.6 mg/kg	TM181		291 #	291 #	47.5 #
Beryllium	<0.01 mg/kg	TM181		1.49 M	0.814 M	0.641 M
Cadmium	<0.02 mg/kg	TM181		0.386 M	0.306 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		26.2 M	20.6 M	14 M
Copper	<1.4 mg/kg	TM181		42.7 M	20.8 M	14.2 M
Lead	<0.7 mg/kg	TM181		63.7 M	13.1 M	14.8 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		22 M	15.7 M	13.3 M
Selenium	<1 mg/kg	TM181		1.05 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		36.5 #	24 #	31.1 #
Zinc	<1.9 mg/kg	TM181		137 M	92.2 M	52 M
Boron, water soluble	<1 mg/kg	TM222		<1 M	<1 M	<1 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP116	TP124	TP126
			Depth (m)	0.20	0.80	2.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	07/07/2010	06/07/2010	06/07/2010
			Date Received	08/07/2010	08/07/2010	08/07/2010
			SDG Ref	100708-104	100708-104	100708-104
			Lab Sample No.(s)	1796622	1795825	1796418
Naphthalene-d8 % recovery**	%	TM218		95.5	112	103
Acenaphthene-d10 % recovery**	%	TM218		93.4	108	98.9
Phenanthrene-d10 % recovery**	%	TM218		93.3	106	94.8
Chrysene-d12 % recovery**	%	TM218		89.5	102	90.1
Perylene-d12 % recovery**	%	TM218		90.3	98.6	88.7
Naphthalene	<9 µg/kg	TM218		78.4 M	<9 M	103 M
Acenaphthylene	<12 µg/kg	TM218		46.8 M	<12 M	35.3 M
Acenaphthene	<8 µg/kg	TM218		15.6 M	<8 M	9.53 M
Fluorene	<10 µg/kg	TM218		17.3 M	<10 M	12.6 M
Phenanthrene	<15 µg/kg	TM218		287 M	<15 M	21.4 M
Anthracene	<16 µg/kg	TM218		105 M	<16 M	<16 M
Fluoranthene	<17 µg/kg	TM218		1400 M	<17 M	29.4 M
Pyrene	<15 µg/kg	TM218		1470 M	<15 M	23.7 M
Benz(a)anthracene	<14 µg/kg	TM218		857 M	<14 M	16.6 M
Chrysene	<10 µg/kg	TM218		869 M	<10 M	15.1 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1430 M	<15 M	<15 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		527 M	<14 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		1270 M	<15 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		815 M	<18 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		216 M	<23 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		988 M	<24 M	<24 M
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		10400 M	<118 M	267 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP116	TP124	TP125	TP126		
			Depth (m)	1.80	1.80	1.70	2.20		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	07/07/2010	06/07/2010	06/07/2010	06/07/2010		
			Date Received	08/07/2010	08/07/2010	08/07/2010	08/07/2010		
			SDG Ref	100708-104	100708-104	100708-104	100708-104		
			Lab Sample No.(s)	1796327	1795821	1796508	1796418		
GRO Surrogate % recovery**	%	TM089		35	61	125	115		
GRO >C5-C12	<44 µg/kg	TM089		3510	<44	<44	<44		
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M		
Ethylbenzene	<3 µg/kg	TM089		13.5 M	<3 M	<3 M	<3 M		
Toluene	<2 µg/kg	TM089		<2 M	<2 M	<2 M	<2 M		
m,p-Xylene	<6 µg/kg	TM089		101 M	<6 M	<6 M	<6 M		
o-Xylene	<3 µg/kg	TM089		62.1 M	<3 M	<3 M	<3 M		
m,p,o-Xylene	<10 µg/kg	TM089		163 M	<10 M	<10 M	<10 M		
BTEX, Total	<10 µg/kg	TM089		177 M	<10 M	<10 M	<10 M		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #		
Aliphatics >C5-C6	<10 µg/kg	TM089		40.3	<10	<10	<10		
Aliphatics >C6-C8	<10 µg/kg	TM089		73.1	<10	<10	<10		
Aliphatics >C8-C10	<10 µg/kg	TM089		354	<10	<10	<10		
Aliphatics >C10-C12	<10 µg/kg	TM089		935	<10	<10	<10		
Aromatics >C6-C7	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics >C7-C8	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics >EC8-EC10	<10 µg/kg	TM089		709	<10	<10	<10		
Aromatics >EC10-EC12	<10 µg/kg	TM089		1400	<10	<10	<10		
Total Aliphatics >C5-C12	<10 µg/kg	TM089		1400	<10	<10	<10		
Total Aromatics >C6-C12	<10 µg/kg	TM089		2110	<10	<10	<10		
Aliphatics >C12-C16	<100 µg/kg	TM173		77100	<100	16400	<100		
Aliphatics >C16-C21	<100 µg/kg	TM173		434000	<100	150000	<100		
Aliphatics >C16-C35	<100 µg/kg	TM173		2120000	520	641000	<100		
Aliphatics >C21-C35	<100 µg/kg	TM173		1690000	520	492000	<100		
Aliphatics >C35-C44	<100 µg/kg	TM173		650000	<100	24300	<100		
Aromatics >EC12-EC16	<100 µg/kg	TM173		18800	<100	3340	<100		
Aromatics >EC16-EC21	<100 µg/kg	TM173		103000	<100	16800	<100		
Aromatics >EC21-EC35	<100 µg/kg	TM173		398000	7540	64300	<100		
Aromatics >EC35-EC44	<100 µg/kg	TM173		134000	1330	9440	<100		
Aromatics >EC40-EC44	<100 µg/kg	TM173		48800	412	3440	<100		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2850000	520	682000	<100		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		654000	8860	93800	<100		
Total Aliphatics >C5-35	<100 µg/kg	TM173		2200000	520	658000	<100		
Total Aliphatics >C5-C44	<100 µg/kg	TM173		2850000	520	682000	<100		
Total Aromatics >C5-35	<100 µg/kg	TM173		521000	7540	84400	<100		
Total Aromatics >C6-C44	<100 µg/kg	TM173		656000	8860	93800	<100		
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		2720000	8060	742000	<100		
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		3510000	9380	776000	<100		

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP127	TP128	TP128	TP129	TP130
			Depth (m)	2.00	0.40	1.50	1.80	0.20
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	06/07/2010	06/07/2010	06/07/2010	06/07/2010	06/07/2010
			Date Received	08/07/2010	08/07/2010	08/07/2010	08/07/2010	08/07/2010
			SDG Ref	100708-104	100708-104	100708-104	100708-104	100708-104
			Lab Sample No.(s)	1796087	1796743	1796662	1796809	1796767
Moisture	%	PM114		16.1				11.2
Moisture content ratio	%	PM114		19.1				12.6
Dry matter content ratio	%	PM114		83.9				88.8
Asbestos Containing Material Screen	-	TM001						No ACM Detected
Phenols, Total monohydric	<0.22 mg/kg	TM062 (S)			<0.22 M	<0.22 M	<0.22 M	<0.22 M
Sulphate, 2:1 water soluble	<0.003 g/l	TM098			0.0269 M	0.561 M	0.112 M	0.0078 M
Sulphur, Total	<0.02 %	TM132			0.02 #	1.02 #	0.37 #	0.03 #
Fraction Organic Carbon (FOC)	<0.002 -	TM132			0.00503 #	0.0196 #	0.00456 #	0.0247 #
pH	1 pH Units	TM133			6.72 M	5.92 M	5.37 M	7.06 M
Cyanide, Total	<1 mg/kg	TM153			<1 M	<1 M	<1 M	<1 M
Cyanide, Free	<1 mg/kg	TM153			<1	<1	<1	<1
Cyanide, Complex	<1 mg/kg	TM153			<1	<1	<1	<1
TPH >C6-C40	<10 mg/kg	TM154			<10 #	249 #	158 #	265 #
Arsenic	<0.6 mg/kg	TM181			11 M	14 M	15.8 M	9.06 M
Barium	<0.6 mg/kg	TM181			343 #	54.7 #	69.3 #	211 #
Beryllium	<0.01 mg/kg	TM181			1.29 M	0.441 M	0.287 M	0.751 M
Cadmium	<0.02 mg/kg	TM181			<0.02 M	0.208 M	<0.02 M	0.296 M
Chromium	<0.9 mg/kg	TM181			35.6 M	7.93 M	6.17 M	17.9 M
Copper	<1.4 mg/kg	TM181			18.4 M	7.86 M	7.64 M	28.3 M
Lead	<0.7 mg/kg	TM181			14.2 M	6.16 M	4.65 M	84.1 M
Mercury	<0.14 mg/kg	TM181			<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181			29 M	21.4 M	10.1 M	14 M
Selenium	<1 mg/kg	TM181			1.84 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181			41.8 #	13.3 #	9.05 #	23.9 #
Zinc	<1.9 mg/kg	TM181			108 M	43.4 M	20.4 M	100 M
Boron, water soluble	<1 mg/kg	TM222			<1 M	<1 M	<1 M	<1 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP128	TP128	TP129	TP130		
			Depth (m)	0.40	1.50	1.80	0.20		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	06/07/2010	06/07/2010	06/07/2010	06/07/2010		
			Date Received	08/07/2010	08/07/2010	08/07/2010	08/07/2010		
			SDG Ref	100708-104	100708-104	100708-104	100708-104		
			Lab Sample No.(s)	1796743	1796662	1796809	1796767		
Naphthalene-d8 % recovery**	%	TM218		109	99.3	108	103		
Acenaphthene-d10 % recovery**	%	TM218		108	98.6	108	102		
Phenanthrene-d10 % recovery**	%	TM218		103	98.8	105	100		
Chrysene-d12 % recovery**	%	TM218		99.1	92.3	102	97.2		
Perylene-d12 % recovery**	%	TM218		92.1	90.7	98.4	94.4		
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	<9 M	66.4 M		
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	587 M		
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	<8 M	125 M		
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	<10 M	440 M		
Phenanthrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	4480 M		
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	1070 M		
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	<17 M	5260 M		
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	4050 M		
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	2130 M		
Chrysene	<10 µg/kg	TM218		<10 M	<10 M	16.1 M	1700 M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 M	<15 M	20.4 M	1840 M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	<14 M	870 M		
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	<15 M	1790 M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	<18 M	926 M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	263 M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	<24 M	995 M		
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		<118 M	<118 M	<118 M	26600 M		

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP129
			Depth (m)	0.60
			Sample Type	Soil/Solid
			Date Sampled	06/07/2010
			Date Received	08/07/2010
			SDG Ref	100708-104
			Lab Sample No.(s)	1796720
GRO Surrogate % recovery**	%	TM089		98
GRO >C5-C12	<44 µg/kg	TM089		<44
Benzene	<10 µg/kg	TM089		<10 M
Ethylbenzene	<3 µg/kg	TM089		<3 M
Toluene	<2 µg/kg	TM089		<2 M
m,p-Xylene	<6 µg/kg	TM089		<6 M
o-Xylene	<3 µg/kg	TM089		<3 M
m,p,o-Xylene	<10 µg/kg	TM089		<10 M
BTEX, Total	<10 µg/kg	TM089		<10 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #
Aliphatics >C5-C6	<10 µg/kg	TM089		<10
Aliphatics >C6-C8	<10 µg/kg	TM089		<10
Aliphatics >C8-C10	<10 µg/kg	TM089		<10
Aliphatics >C10-C12	<10 µg/kg	TM089		<10
Aromatics >C6-C7	<10 µg/kg	TM089		<10
Aromatics >C7-C8	<10 µg/kg	TM089		<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10
Total Aliphatics >C5-C12	<10 µg/kg	TM089		<10
Total Aromatics >C6-C12	<10 µg/kg	TM089		<10
Aliphatics >C12-C16	<100 µg/kg	TM173		7500
Aliphatics >C16-C21	<100 µg/kg	TM173		2970
Aliphatics >C16-C35	<100 µg/kg	TM173		8780
Aliphatics >C21-C35	<100 µg/kg	TM173		5800
Aliphatics >C35-C44	<100 µg/kg	TM173		474
Aromatics >EC12-EC16	<100 µg/kg	TM173		1370
Aromatics >EC16-EC21	<100 µg/kg	TM173		1500
Aromatics >EC21-EC35	<100 µg/kg	TM173		2970
Aromatics >EC35-EC44	<100 µg/kg	TM173		778
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		16800
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		6620
Total Aliphatics >C5-35	<100 µg/kg	TM173		16300
Total Aliphatics >C5-C44	<100 µg/kg	TM173		16800
Total Aromatics >C5-35	<100 µg/kg	TM173		5840
Total Aromatics >C6-C44	<100 µg/kg	TM173		6620
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		22100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		23400

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP132	TP133	WS2	WS2
			Depth (m)	0.60	0.60	0.10 - 0.80	1.10 - 1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	06/07/2010	06/07/2010	07/07/2010	07/07/2010
			Date Received	08/07/2010	08/07/2010	08/07/2010	08/07/2010
			SDG Ref	100708-104	100708-104	100708-104	100708-104
			Lab Sample No.(s)	1796784	1796587	1796915	1796928
Moisture	%	PM114			5.76		
Moisture content ratio	%	PM114			6.11		
Dry matter content ratio	%	PM114			94.2		
Phenols, Total monohydric	<0.22 mg/kg	TM062 (S)		<0.22 M	<0.22 M	<0.22 M	<0.22 M
Sulphate, 2:1 water soluble	<0.003 g/l	TM098		0.0219 M	0.0097 M	0.0141 M	0.131 M
Sulphur, Total	<0.02 %	TM132		<0.02 #	<0.02 #	0.05 #	0.09 #
Fraction Organic Carbon (FOC)	<0.002 -	TM132		0.00398 #	0.00217 #	0.0168 #	0.0515 #
pH	1 pH Units	TM133		7.21 M	5.81 M	8.28 M	8.7 M
Cyanide, Total	<1 mg/kg	TM153		<1 M	<1 M	<1 M	<1 M
Cyanide, Free	<1 mg/kg	TM153		<1	<1	<1	<1
Cyanide, Complex	<1 mg/kg	TM153		<1	<1	<1	<1
TPH >C6-C40	<10 mg/kg	TM154		<10 #	11.9 #	510 #	436 #
Arsenic	<0.6 mg/kg	TM181		10.7 M	9.39 M	8.91 M	10 M
Barium	<0.6 mg/kg	TM181		253 #	53.9 #	284 #	255 #
Beryllium	<0.01 mg/kg	TM181		0.92 M	0.374 M	0.848 M	0.698 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	<0.02 M	0.334 M	0.214 M
Chromium	<0.9 mg/kg	TM181		19.2 M	11.5 M	19.9 M	13.5 M
Copper	<1.4 mg/kg	TM181		11.3 M	12 M	25.7 M	24.4 M
Lead	<0.7 mg/kg	TM181		10.6 M	30.8 M	99.5 M	103 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	0.202 M
Nickel	<0.2 mg/kg	TM181		20.8 M	8.97 M	18.7 M	13.9 M
Selenium	<1 mg/kg	TM181		1.03 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		26.1 #	21 #	27.1 #	20.6 #
Zinc	<1.9 mg/kg	TM181		55.6 M	37.7 M	118 M	100 M
Boron, water soluble	<1 mg/kg	TM222		<1 M	<1 M	<1 M	<1 M

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP132	TP133	WS2	WS2		
			Depth (m)	0.60	0.60	0.10 - 0.80	1.10 - 1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	06/07/2010	06/07/2010	07/07/2010	07/07/2010		
			Date Received	08/07/2010	08/07/2010	08/07/2010	08/07/2010		
			SDG Ref	100708-104	100708-104	100708-104	100708-104		
			Lab Sample No.(s)	1796784	1796587	1796915	1796928		
Naphthalene-d8 % recovery**	%	TM218		102	102	98.9	106		
Acenaphthene-d10 % recovery**	%	TM218		103	102	96.7	104		
Phenanthrene-d10 % recovery**	%	TM218		99.4	99.9	92.3	100		
Chrysene-d12 % recovery**	%	TM218		95.6	94.8	88.7	94.4		
Perylene-d12 % recovery**	%	TM218		91.1	90.5	85.5	90.6		
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	61.8 M	25.2 M		
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	129 M	14.3 M		
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	70.5 M	22.1 M		
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	65.2 M	14.8 M		
Phenanthrene	<15 µg/kg	TM218		<15 M	30.7 M	1040 M	82.2 M		
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	349 M	31.1 M		
Fluoranthene	<17 µg/kg	TM218		<17 M	33.7 M	3050 M	184 M		
Pyrene	<15 µg/kg	TM218		<15 M	28.2 M	2570 M	158 M		
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	20.4 M	1720 M	130 M		
Chrysene	<10 µg/kg	TM218		<10 M	17.3 M	1320 M	98.7 M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		22.6 M	24.3 M	2460 M	174 M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	833 M	62.2 M		
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	15.9 M	1860 M	112 M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	1100 M	71.1 M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	298 M	<23 M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	1240 M	88.2 M		
Polyaromatic hydrocarbons, Total USEPA 16	<118 µg/kg	TM218		<118 M	171 M	18200 M	1270 M		

Validated

ALcontrol Laboratories Analytical Services

SDG	100708-104	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/616
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91025

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	TP132	TP133	WS2			
			Depth (m)	0.60	0.60	1.10 - 1.50			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	06/07/2010	06/07/2010	07/07/2010			
			Date Received	08/07/2010	08/07/2010	08/07/2010			
			SDG Ref	100708-104	100708-104	100708-104			
			Lab Sample No.(s)	1796784	1796587	1796928			
GRO Surrogate % recovery**	%	TM089		117	118	33			
GRO >C5-C12	<44 µg/kg	TM089		<44	<44	607			
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M			
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M			
Toluene	<2 µg/kg	TM089		<2 M	<2 M	<2 M			
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	<6 M			
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<3 M			
m,p,o-Xylene	<10 µg/kg	TM089		<10 M	<10 M	<10 M			
BTEX, Total	<10 µg/kg	TM089		<10 M	<10 M	<10 M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #			
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10	50.5			
Aliphatics >C6-C8	<10 µg/kg	TM089		<10	<10	202			
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	<10	50.1			
Aliphatics >C10-C12	<10 µg/kg	TM089		<10	<10	88.1			
Aromatics >C6-C7	<10 µg/kg	TM089		<10	<10	<10			
Aromatics >C7-C8	<10 µg/kg	TM089		<10	<10	<10			
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10	<10	75.2			
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10	<10	132			
Total Aliphatics >C5-C12	<10 µg/kg	TM089		<10	<10	390			
Total Aromatics >C6-C12	<10 µg/kg	TM089		<10	<10	207			
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	7750			
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	17000			
Aliphatics >C16-C35	<100 µg/kg	TM173		<100	<100	137000			
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	120000			
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	45600			
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	7310			
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	<100	20800			
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	<100	119000			
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	52700			
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	21200			
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	<100	191000			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	<100	200000			
Total Aliphatics >C5-35	<100 µg/kg	TM173		<100	<100	145000			
Total Aliphatics >C5-C44	<100 µg/kg	TM173		<100	<100	191000			
Total Aromatics >C5-35	<100 µg/kg	TM173		<100	<100	148000			
Total Aromatics >C6-C44	<100 µg/kg	TM173		<100	<100	200000			
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		<100	<100	293000			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		<100	<100	391000			

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.207	**Moisture Content Ratio (%)**	18.2
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	84.6
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1795533			
Sampled Date	05-Jul-2010			
Customer Sample Ref.	TP103			
Depth (m)	2.00			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00224	0.00448	-	-	-
Barium	0.043	0.086	-	-	-
Cadmium	0.000152	0.000304	-	-	-
Chromium	0.00152	0.00304	-	-	-
Copper	0.00315	0.0063	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.0182	0.0364	-	-	-
Lead	0.000793	0.00159	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00172	0.00344	-	-	-
Zinc	0.00599	0.012	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	109	218	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	7.14
Conductivity (µS/cm)	262.00
Temperature (ºC)	21.00
Volume Leachant (Litres)	0.318
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.207	**Moisture Content Ratio (%)**	18.2
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	84.6
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1795533			
Sampled Date	05-Jul-2010			
Customer Sample Ref.	TP103			
Depth (m)	2.00			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	0.00035	0.0007	-	-	-
Boron	0.0816	0.163	-	-	-
pH	7	14	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.00504	0.0101	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	7.14
Conductivity (µS/cm)	262.00
Temperature (°C)	21.00
Volume Leachant (Litres)	0.318
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.209	**Moisture Content Ratio (%)**	19.1
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	83.9
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1796087			
Sampled Date	06-Jul-2010			
Customer Sample Ref.	TP127			
Depth (m)	2.00			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00217	0.00434	-	-	-
Barium	0.0535	0.107	-	-	-
Cadmium	<0.0001	<0.0002	-	-	-
Chromium	0.00146	0.00292	-	-	-
Copper	0.00259	0.00518	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00289	0.00578	-	-	-
Lead	0.00112	0.00224	-	-	-
Antimony	-	-	-	-	-
Selenium	0.000859	0.00172	-	-	-
Zinc	0.00606	0.0121	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	20.5	41	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	7.77
Conductivity (µS/cm)	1.83
Temperature (ºC)	20.60
Volume Leachant (Litres)	0.317
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.209	**Moisture Content Ratio (%)**	19.1
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	83.9
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1796087			
Sampled Date	06-Jul-2010			
Customer Sample Ref.	TP127			
Depth (m)	2.00			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	0.000097	0.000194	-	-	-
Boron	<0.0094	<0.0188	-	-	-
pH	6.6	13	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.00204	0.00408	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	7.77
Conductivity (µS/cm)	1.83
Temperature (ºC)	20.60
Volume Leachant (Litres)	0.317
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.210	**Moisture Content Ratio (%)**	20.1
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	83.3
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1796247			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	TP111			
Depth (m)	0.40			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.000861	0.00172	-	-	-
Barium	0.0927	0.185	-	-	-
Cadmium	0.000112	0.000224	-	-	-
Chromium	0.00393	0.00786	-	-	-
Copper	0.00792	0.0158	-	-	-
Mercury Dissolved (CVAF)	0.0000261	0.0000522	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00478	0.00956	-	-	-
Lead	0.000335	0.00067	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00117	0.00234	-	-	-
Zinc	0.00627	0.0125	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	47	94	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	8.02
Conductivity (µS/cm)	372.00
Temperature (ºC)	20.50
Volume Leachant (Litres)	0.315
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.210	**Moisture Content Ratio (%)**	20.1
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	83.3
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1796247			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	TP111			
Depth (m)	0.40			

Solid Waste Analysis

Total Organic Carbon (%)	-	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	-	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	<0.00007	<0.00014	-	-	-
Boron	0.217	0.434	-	-	-
pH	8.5	17	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.00176	0.00352	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	8.02
Conductivity (µS/cm)	372.00
Temperature (°C)	20.50
Volume Leachant (Litres)	0.315
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.222	**Moisture Content Ratio (%)**	27.0
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	78.8
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1796289			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	TP112			
Depth (m)	2.80			

Solid Waste Analysis

Total Organic Carbon (%)	0.434	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	6.98	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00429	0.00858	-	-	-
Barium	0.0735	0.147	-	-	-
Cadmium	<0.0001	<0.0002	-	-	-
Chromium	0.00715	0.0143	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00814	0.0163	-	-	-
Lead	0.00386	0.00772	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00418	0.00836	-	-	-
Zinc	0.0352	0.0704	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	49.1	98.2	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-
Copper	0.0112	0.0224	-	-	-
Mercury Dissolved (CVAF)	0.0000248	0.0000496	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	7.39
Conductivity (µS/cm)	200.00
Temperature (ºC)	20.40
Volume Leachant (Litres)	0.303
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.222	**Moisture Content Ratio (%)**	27.0
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	78.8
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1796289			
Sampled Date	07-Jul-2010			
Customer Sample Ref.	TP112			
Depth (m)	2.80			

Solid Waste Analysis

Total Organic Carbon (%)	0.434	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	6.98	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	0.000264	0.000528	-	-	-
Boron	1.12	2.24	-	-	-
pH	7.9	16	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.0096	0.0192	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	7.39
Conductivity (µS/cm)	200.00
Temperature (°C)	20.40
Volume Leachant (Litres)	0.303
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.186	**Moisture Content Ratio (%)**	6.11
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	94.2
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1796587			
Sampled Date	06-Jul-2010			
Customer Sample Ref.	TP133			
Depth (m)	0.60			

Solid Waste Analysis

Total Organic Carbon (%)	0.217	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	<0.01	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	5.81	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00273	0.00546	-	-	-
Barium	0.0299	0.0598	-	-	-
Cadmium	0.000131	0.000262	-	-	-
Chromium	0.00204	0.00408	-	-	-
Copper	0.0107	0.0214	-	-	-
Mercury Dissolved (CVAF)	<0.00001	<0.00002	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00463	0.00926	-	-	-
Lead	0.00629	0.0126	-	-	-
Antimony	-	-	-	-	-
Selenium	<0.00039	<0.00078	-	-	-
Zinc	0.0275	0.055	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	28.3	56.6	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	7.71
Conductivity (µS/cm)	93.30
Temperature (°C)	20.80
Volume Leachant (Litres)	0.339
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.186	**Moisture Content Ratio (%)**	6.11
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	94.2
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1796587			
Sampled Date	06-Jul-2010			
Customer Sample Ref.	TP133			
Depth (m)	0.60			

Solid Waste Analysis

Total Organic Carbon (%)	0.217	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	<0.01	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	5.81	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	0.000093	0.000186	-	-	-
Boron	<0.0094	<0.0188	-	-	-
pH	6.7	13	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.00547	0.0109	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	7.71
Conductivity (µS/cm)	93.30
Temperature (°C)	20.80
Volume Leachant (Litres)	0.339
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.197	**Moisture Content Ratio (%)**	12.6
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	88.8
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1796767			
Sampled Date	06-Jul-2010			
Customer Sample Ref.	TP130			
Depth (m)	0.20			

Solid Waste Analysis

Total Organic Carbon (%)	2.47	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	7.06	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Arsenic	0.00173	0.00346	-	-	-
Barium	0.0963	0.193	-	-	-
Cadmium	0.00015	0.0003	-	-	-
Chromium	0.00586	0.0117	-	-	-
Copper	0.0189	0.0378	-	-	-
Mercury Dissolved (CVAF)	0.0000356	0.0000712	-	-	-
Molybdenum	-	-	-	-	-
Nickel	0.00559	0.0112	-	-	-
Lead	0.00111	0.00222	-	-	-
Antimony	-	-	-	-	-
Selenium	0.00211	0.00422	-	-	-
Zinc	0.00526	0.0105	-	-	-
Chloride	-	-	-	-	-
Fluoride	-	-	-	-	-
Sulphate (soluble)	16.5	33	-	-	-
Total Dissolved Solids	-	-	-	-	-
Total Monohydric Phenols (W)	-	-	-	-	-
Dissolved Organic Carbon	-	-	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	8.11
Conductivity (µS/cm)	415.00
Temperature (ºC)	20.40
Volume Leachant (Litres)	0.328
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

ALcontrol Laboratories Analytical Services

CEN 2:1 ONE STAGE BATCH TEST

REF-CEN12457-3

Client Reference	NTE 285	**Client Location**	THE DOVE WAY UTTOXETER
Mass Sample taken (kg)	0.197	**Moisture Content Ratio (%)**	12.6
Mass of dry sample (kg)	0.175	**Dry Matter Content Ratio (%)**	88.8
Particle Size <4mm	>95%		

Case				
SDG	100708-104			
Lab Sample Number(s)	1796767			
Sampled Date	06-Jul-2010			
Customer Sample Ref.	TP130			
Depth (m)	0.20			

Solid Waste Analysis

Total Organic Carbon (%)	2.47	-	-	-
Loss on Ignition (%)	-	-	-	-
Sum of BTEX (mg/kg)	-	-	-	-
Sum of 7 PCBs (mg/kg)	-	-	-	-
Mineral Oil (mg/kg)	-	-	-	-
PAH Sum of 17 (mg/kg)	-	-	-	-
pH (pH Units)	7.06	-	-	-
ANC to pH 6 (mol/kg)	-	-	-	-
ANC to pH 4 (mol/kg)	-	-	-	-

Eluate Analysis	**Conc^{n} in 2:1 eluate C_2**	**2:1 conc^{n} leached A_2**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
	mg/l	**mg/kg**			
Beryllium	<0.00007	<0.00014	-	-	-
Boron	<0.0094	<0.0188	-	-	-
pH	8.6	17	-	-	-
Total Cyanide (W)	<0.05	<0.1	-	-	-
Vanadium	0.00316	0.00632	-	-	-

Leach Test Information

Date Prepared	14-Jul-2010
pH (pH Units)	8.11
Conductivity (µS/cm)	415.00
Temperature (°C)	20.40
Volume Leachant (Litres)	0.328
Volume of Eluate VE1 (Litres)	

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable

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

Mcerts Certification does not apply to leachates

Table of Results - Appendix

SDG Number : 100708-104 **Client :** BWB Consulting **Client Ref :** NTE 285

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10-7

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample [1]
PM001		Preparation of Samples for Metals Analysis	Dry
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material	Wet
PM114		Leaching Procedure for CEN Two Stage BatchTest 2:1/8:1 Cumulative	
PM115		Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step	
TM001	In - house Method	Determination of asbestos containing material by screening on solids	
TM062 (S)	National Grid Property Holdings Methods for the Collection & Analysis of Samples from National Grid Sites version 1 Sec 3.9	Determination of Phenols in Soils by HPLC	Wet
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)	
TM098	Method 4500E, AWWA/APHA, 20th Ed., 1999	Determination of Sulphate using the Kone Analyser	Dry
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	
TM132	In - house Method	ELTRA CS800 Operators Guide	Dry
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	Wet
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser	Wet
TM154	In - house Method	Determination of Petroleum Hydrocarbons by EZ Flash GC-FID in the Carbon range C6- C40	Wet
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID	Dry
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES	Dry
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry	
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	Dry
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546	Wet
TM222	In-House Method	Determination of Hot Water Soluble Boron in Soils (10:1 Water:soil) by IRIS Emission Spectrometer	Dry
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate	
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter	

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

APPENDIX

APPENDIX

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH_4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.
2. Samples will be run in duplicate upon request, but an additional charge may be incurred.
3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.
4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.
5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.
6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.
7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample – similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.
8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.
9. NDP – No determination possible due to insufficient/unsuitable sample.
10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals – total metals must be requested separately.
11. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.
12. Results relate only to the items tested
13. **Surrogate recoveries –** Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 – 130 %.
14. **Product analyses –** Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.
15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).
16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).
17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.
18. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.
19. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.
19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.
20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.
21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.
22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials – whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.
23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 – C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GS MS
SVOC	DCM	LIQUID/LIQUID SHAKE	GC MS
FREE SULPHUR	DCM	SOLID PHASE EXTRACTION	HPLC
PEST OCP/OPP	DCM	LIQUID/LIQUID SHAKE	GC MS
TRIAZINE HERBS	DCM	LIQUID/LIQUID SHAKE	GC MS
PHENOLS MS	DCM	SOLID PHASE EXTRACTION	GC MS
TPH by INFRA RED (IR)	TCE	LIQUID/LIQUID EXTRACTION	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID EXTRACTION	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GC FID

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
Solvent Extractable Matter	D&C	DCM	SOXTHERM	GRAVIMETRIC
Cyclohexane Ext. Matter	D&C	CYCLOHEXANE	SOXTHERM	GRAVIMETRIC
Thin Layer Chromatography	D&C	DCM	SOXTHERM	IATROSCAN
Elemental Sulphur	D&C	DCM	SOXTHERM	HPLC
Phenols by GCMS	WET	DCM	SOXTHERM	GC-MS
Herbicides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
Pesticides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
EPH (DRO)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Min oil)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Cleaned up)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH CWG by GC	D&C	HEXANE:ACETONE	END OVER END	GC-FID
PCB tot / PCB con	D&C	HEXANE:ACETONE	END OVER END	GC-MS
Polyaromatic Hydrocarbons (MS)	WET	HEXANE:ACETONE	Microwave TM218.	GC-MS
C8-C40 (C6-C40)EZ Flash	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Polyaromatic Hydrocarbons Rapid GC	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Semi Volatile Organic Compounds	WET	DCM:ACETONE	SONICATE	GC-MS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content.

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -

Trace – Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in MDHS 100.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

APPENDIX 6

SURFACE WATER AND GROUNDWATER

CHEMICAL LABORATORY TESTING

ALcontrol Laboratories

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528700
Fax: (01244) 528701
email: mkt@alcontrol.com
Website: www.alcontrol.com

BWB Consulting
3-4 Kayes Walk
The Lace Market
Nottingham
Nottinghamshire
NG1 1PY

Attention: Richard Robinson

CERTIFICATE OF ANALYSIS

Date:	26 July 2010		
Customer:	H_BWB_NTT-81		
Sample Delivery Group (SDG):	100719-5	**Report No.:**	91589
Your Reference:	NTE 285		
Location:	THE DOVE WAY UTTOXETER		

We received 12 samples on Monday July 19, 2010 and 9 of these samples were scheduled for analysis which was completed on Monday July 26, 2010. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Iain Swinton

Operations Director - Land UK & Ireland

UKAS TESTING
1291

GROUP

Validated

ALcontrol Laboratories Analytical Services

SDG:	100719-5	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/619
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91589

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Sampled Date
1836076	BH1		15/07/2010
1835995	BH2		15/07/2010
1836005	BH3		15/07/2010
1836110	BH4		15/07/2010
1836201	BH5		15/07/2010
1836009	BH6		15/07/2010
1836214	BH7		15/07/2010
1836172	BH8		15/07/2010
1836164	BH9		15/07/2010
1836045	BROOK-DOWN		15/07/2010
1836018	BROOK-MID		15/07/2010
1836224	BROOK-UP		15/07/2010

Only received samples which have had analysis scheduled will be shown on the following pages.

Validated

ALcontrol Laboratories Analytical Services

SDG:	100719-5	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/619
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91589

LIQUID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)		1835995	1836005	1836018	1836045	1836076	1836164	1836172	1836214	
Customer Sample Ref.		BH2	BH3	BROOK-MID	BROOK-DOWN	BH1	BH9	BH8	BH7	
Depth (m)										
Container		1l green glass bottle / 1lplastic / H2SO4 / NaOH / Vial	1l green glass bottle / 1lplastic / H2SO4 / NaOH / Vial	1l green glass bottle / 1lplastic / H2SO4 / NaOH / Vial	1l green glass bottle / 1lplastic / H2SO4 / NaOH / Vial	1l green glass bottle / 1lplastic / H2SO4 / NaOH / Vial	1l green glass bottle / 1lplastic / H2SO4 / NaOH / Vial	1l green glass bottle / 1lplastic / H2SO4 / NaOH / Vial	1l green glass bottle / 1lplastic / H2SO4 / NaOH / Vial	1l green glass bottle / 1lplastic / H2SO4
Ammonium	All	X	X	X	X	X	X	X	X	X
Anions by Kone (w)	All	X	X	X	X	X	X	X	X	X
Conductivity (at 20 deg.C)	All	X	X	X	X	X	X	X	X	X
Cyanide Complex/Free/Total/Thiocyan	All	X	X	X	X	X	X	X	X	
Dissolved Metals by ICP-MS	All	X	X	X	X	X	X	X	X	X
EPH (DRO) (C10-C40) Aqueous (W)	All	X	X	X	X	X	X	X	X	
EPH CWG (Aliphatic) Aqueous GC (W)	All	X	X	X	X	X	X	X	X	
EPH CWG (Aromatic) Aqueous GC (W)	All	X	X	X	X	X	X	X	X	
GRO BTEX MTBE GC (W)	All	X	X	X	X	X	X	X	X	
Mercury Dissolved	All	X	X	X	X	X	X	X	X	
PAH Spec MS - Aqueous (W)	All	X	X	X	X	X	X	X	X	
pH Value	All	X	X	X	X	X	X	X	X	X
Phenols by HPLC (W)	All	X	X	X	X	X	X	X	X	
TPH CWG (W)	All	X	X	X	X	X	X	X	X	

Total	0 9	0 9	0 9	0 9	0 9	0 9	0 9	0 9	0 9	0 9	0 9	0 9	0 9	0 9
Vial									X					
NaOH				X									X	

Validated

ALcontrol Laboratories Analytical Services

SDG:	100719-5	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/619
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91589

Test Completion dates

SDG reference: 100719-5

Lab Sample No(s)	1835995	1836005	1836018	1836045	1836076	1836164	1836172	1836214	1836224
Customer Sample Ref.	BH2	BH3	BROOK-MID	BROOK-DOWN	BH1	BH9	BH8	BH7	BROOK-UP
Depth									
Type	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Ammonium	19/07/2010	19/07/2010	20/07/2010	20/07/2010	19/07/2010	20/07/2010	20/07/2010	19/07/2010	20/07/2010
Anions by Kone (w)	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Conductivity (at 20 deg.C)	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Cyanide	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Dissolved Metals by ICP-MS	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	23/07/2010	23/07/2010	21/07/2010	23/07/2010
EPH (DRO) (C10-C40) Aqueous (W)	20/07/2010	21/07/2010	20/07/2010	20/07/2010	21/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
EPH CWG (Aliphatic) Aqueous GC	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010
EPH CWG (Aromatic) Aqueous GC	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010
GRO by GC-FID (W)	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	26/07/2010	22/07/2010	22/07/2010	22/07/2010
Mercury Dissolved	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
PAH Spec MS - Aqueous (W)	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
pH Value	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Phenols by HPLC (W)	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010
TPH CWG (W)	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010	26/07/2010	22/07/2010	22/07/2010	22/07/2010

Validated

ALcontrol Laboratories Analytical Services

SDG:	100719-5	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/619
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91589

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	BH1	BH2	BH3	BH7	BH8	BH9
Customer Sample Ref.								
Depth (m)								
Sample Type			Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
Date Sampled			15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
Date Received			19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010
SDG Ref			100719-5	100719-5	100719-5	100719-5	100719-5	100719-5
Lab Sample No.(s)			1836076	1835995	1836005	1836214	1836172	1836164
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	0.266 #	17.5 #	23.1 #	0.803 #	13.9 #	15.6 #
Conductivity @ 20 deg.C	<0.014 mS/cm	TM120	1.22 #	1.6 #	1.16 #	0.699 #	1.78 #	1.55 #
Arsenic (diss.filt)	<0.12 µg/l	TM152	2.88 #	1.17 #	1.79 #	1.13 #	1.8 #	1.98 #
Barium (diss.filt)	<0.03 µg/l	TM152	54.8 #	159 #	429 #	44.6 #	54.4 #	86.8 #
Beryllium (diss.filt)	<0.07 µg/l	TM152	<0.07 #	<0.07 #	<0.07 #	<0.07 #	<0.07 #	<0.07 #
Boron (diss.filt)	<9.4 µg/l	TM152	405 #	1540 #	1180 #	110 #	217 #	149 #
Cadmium (diss.filt)	<0.1 µg/l	TM152	0.128 #	0.119 #	<0.1 #	0.38 #	0.26 #	0.104 #
Chromium (diss.filt)	<0.22 µg/l	TM152	6.52 #	13.6 #	12.9 #	6.24 #	6.61 #	9.28 #
Copper (diss.filt)	<0.85 µg/l	TM152	1.68 #	2.68 #	1.12 #	0.875 #	6.22 #	3.61 #
Lead (diss.filt)	<0.02 µg/l	TM152	0.027 #	0.05 #	<0.02 #	<0.02 #	0.051 #	0.108 #
Nickel (diss.filt)	<0.15 µg/l	TM152	11.6 #	17 #	12.4 #	5.14 #	9.35 #	7.43 #
Selenium (diss.filt)	<0.39 µg/l	TM152	0.423 #	1.03 #	1.3 #	0.961 #	8.05 #	5.81 #
Vanadium (diss.filt)	<0.24 µg/l	TM152	2.14 #	4.28 #	4.2 #	4.17 #	2.93 #	2.93 #
Zinc (diss.filt)	<0.41 µg/l	TM152	3.73 #	2.08 #	4.2 #	1.02 #	4.77 #	12.9 #
EPH Range >C10 - C40 (aq)	<46 µg/l	TM172	52.3 #	<46 #	84.4 #	<46 #	823 #	1880 #
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #
Sulphate	<3 mg/l	TM184	230 #	413 #	51.3 #	85.4 #	412 #	366 #
Cyanide, Total	<0.05 mg/l	TM227	<0.05 #	<0.05 #	<0.05 #	<0.05 #	1.63 #	0.957 #
pH	<1 pH Units	TM256	7.67 #	7.78 #	7.85 #	8.09 #	7.97 #	7.65 #
Phenols, Total monohydric	<0.015 mg/l	TM259	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #	<0.015 #

Validated

ALcontrol Laboratories Analytical Services

SDG:	100719-5	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/619
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91589

PAH Spec MS - Aqueous (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	BH1	BH2	BH3	BH7	BH8	BH9
			Depth (m)						
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
			Date Received	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010
			SDG Ref	100719-5	100719-5	100719-5	100719-5	100719-5	100719-5
			Lab Sample No.(s)	1836076	1835995	1836005	1836214	1836172	1836164
Naphthalene (aq)	<0.1 µg/l	TM178		<0.1	<0.1	<0.1	<0.1	0.48	<0.5
Acenaphthene (aq)	<0.015 µg/l	TM178		0.81	<0.015	0.02	0.02	1.72	0.38
Acenaphthylene (aq)	<0.011 µg/l	TM178		<0.011	<0.011	<0.011	<0.011	6.2	0.18
Fluoranthene (aq)	<0.014 µg/l	TM178		0.84	0.02	<0.014	0.12	14.2	11.2
Anthracene (aq)	<0.015 µg/l	TM178		0.5	<0.015	<0.015	0.02	4.61	0.99
Phenanthrene (aq)	<0.022 µg/l	TM178		3.16	0.04	0.03	0.07	5.24	3.49
Fluorene (aq)	<0.014 µg/l	TM178		0.7	<0.014	<0.014	<0.014	3.48	0.29
Chrysene (aq)	<0.013 µg/l	TM178		0.07	<0.013	<0.013	0.04	4.81	4.02
Pyrene (aq)	<0.015 µg/l	TM178		0.57	<0.015	<0.015	0.12	13.4	10
Benzo(a)anthracene (aq)	<0.017 µg/l	TM178		0.06	<0.017	<0.017	0.05	6.1	4.88
Benzo(b)fluoranthene (aq)	<0.023 µg/l	TM178		0.04	<0.023	<0.023	0.07	6.58	8.21
Benzo(k)fluoranthene (aq)	<0.027 µg/l	TM178		<0.027	<0.027	<0.027	0.03	2.72	3.01
Benzo(a)pyrene (aq)	<0.009 µg/l	TM178		0.03	<0.009	<0.009	0.04	5.65	6.63
Dibenzo(a,h)anthracene (aq)	<0.016 µg/l	TM178		<0.016	<0.016	<0.016	<0.016	0.92	1.07
Benzo(g,h,i)perylene (aq)	<0.016 µg/l	TM178		0.03	<0.016	<0.016	0.03	3.44	4.8
Indeno(1,2,3-cd)pyrene (aq)	<0.014 µg/l	TM178		0.02	<0.014	<0.014	0.02	3.22	4.23
Polyaromatic hydrocarbons, Total USEPA 16 (aq)	<0.1 µg/l	TM178		6.83	<0.1	<0.1	0.63	82.8	63.5

Validated

ALcontrol Laboratories Analytical Services

SDG:	100719-5	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/619
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91589

TPH CWG (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	BH1	BH2	BH3	BH7	BH8	BH9
Customer Sample Ref.								
Depth (m)								
Sample Type			Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
Date Sampled			15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
Date Received			19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010	19/07/2010
SDG Ref			100719-5	100719-5	100719-5	100719-5	100719-5	100719-5
Lab Sample No.(s)			1836076	1835995	1836005	1836214	1836172	1836164
Total Aliphatics >C5-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	329
Total Aromatics >C6-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	317	635
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	317	964
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	28	<10
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	22
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	75	31
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	307
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	214	604
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	<10	329
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	<10	<10	<10	<10	317	635
Total Aliphatics & Aromatics >C12-C35 (Aqueous)	<10 µg/l	TM174	<10	<10	<10	<10	317	964
GRO Surrogate % recovery**	%	TM245	94	90	91	96	101	89
GRO >C5-C12	<50 µg/l	TM245	<50 #	<50 #	<50 #	<50 #	<50 #	<50 #
Benzene	<7 µg/l	TM245	<7 #	<7 #	<7 #	<7 #	<7 #	<7 #
Ethylbenzene	<5 µg/l	TM245	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Toluene	<4 µg/l	TM245	<4 #	<4 #	<4 #	<4 #	<4 #	<4 #
m,p-Xylene	<8 µg/l	TM245	<8 #	<8 #	<8 #	<8 #	<8 #	<8 #
o-Xylene	<3 µg/l	TM245	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #
m,p,o-Xylene	<10 µg/l	TM245	<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
BTEX, Total	<10 µg/l	TM245	<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3 #	<3 #	<3 #	<3 #	<3 #	<3 #
Aliphatics >C5-C6	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aromatics >C6-C7	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Total Aliphatics >C5-C12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10
Total Aromatics >C6-C12	<10 µg/l	TM245	<10	<10	<10	<10	<10	<10

Validated

ALcontrol Laboratories Analytical Services

SDG:	100719-5	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/619
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91589

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Date Received	SDG Ref	Lab Sample No.(s)
			BROOK-DOWN		Water(GW/SW)	15/07/2010	19/07/2010	100719-5	1836045
			BROOK-MID		Water(GW/SW)	15/07/2010	19/07/2010	100719-5	1836018
			BROOK-UP		Water(GW/SW)	15/07/2010	19/07/2010	100719-5	1836224
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	1.87 #						
			0.769 #						
			1.03 #						
Conductivity @ 20 deg.C	<0.014 mS/cm	TM120	0.597 #						
			0.194 #						
			0.449 #						
Arsenic (diss.filt)	<0.12 µg/l	TM152	1.85 #						
			1.17 #						
			1.27 #						
Barium (diss.filt)	<0.03 µg/l	TM152	56.2 #						
			21.7 #						
			47.9 #						
Beryllium (diss.filt)	<0.07 µg/l	TM152	<0.07 #						
			0.091 #						
			<0.07 #						
Boron (diss.filt)	<9.4 µg/l	TM152	90.4 #						
			31.5 #						
			49.3 #						
Cadmium (diss.filt)	<0.1 µg/l	TM152	<0.1 #						
			0.122 #						
			<0.1 #						
Chromium (diss.filt)	<0.22 µg/l	TM152	5.06 #						
			1.59 #						
			3.52 #						
Copper (diss.filt)	<0.85 µg/l	TM152	1.62 #						
			5.83 #						
			4.55 #						
Lead (diss.filt)	<0.02 µg/l	TM152	1.98 #						
			1.28 #						
			1.97 #						
Nickel (diss.filt)	<0.15 µg/l	TM152	4.3 #						
			1.18 #						
			2.58 #						
Selenium (diss.filt)	<0.39 µg/l	TM152	0.766 #						
			0.674 #						
			0.727 #						
Vanadium (diss.filt)	<0.24 µg/l	TM152	2.24 #						
			3.27 #						
			2.68 #						
Zinc (diss.filt)	<0.41 µg/l	TM152	22.7 #						
			25.1 #						
			19.2 #						
EPH Range >C10 - C40 (aq)	<46 µg/l	TM172	191 #						
			405 #						
			235 #						
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #						
			<0.01 #						
			<0.01 #						
Sulphate	<3 mg/l	TM184	42.1 #						
			15.3 #						
			34.3 #						
Cyanide, Total	<0.05 mg/l	TM227	<0.05 #						
			<0.05 #						
			<0.05 #						
pH	<1 pH Units	TM256	8.5 #						
			7.95 #						
			8.26 #						
Phenols, Total monohydric	<0.015 mg/l	TM259	<0.015 #						
			<0.015 #						
			<0.015 #						

Validated

ALcontrol Laboratories Analytical Services

SDG:	100719-5	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/619
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91589

PAH Spec MS - Aqueous (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	BROOK-DOWN	BROOK-MID	BROOK-UP
			Depth (m)			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	15/07/2010	15/07/2010	15/07/2010
			Date Received	19/07/2010	19/07/2010	19/07/2010
			SDG Ref	100719-5	100719-5	100719-5
			Lab Sample No.(s)	1836045	1836018	1836224
Naphthalene (aq)	<0.1 µg/l	TM178		<0.1	<0.1	<0.1
Acenaphthene (aq)	<0.015 µg/l	TM178		0.03	0.03	0.02
Acenaphthylene (aq)	<0.011 µg/l	TM178		<0.011	<0.011	<0.011
Fluoranthene (aq)	<0.014 µg/l	TM178		0.08	0.13	0.04
Anthracene (aq)	<0.015 µg/l	TM178		<0.015	<0.015	<0.015
Phenanthrene (aq)	<0.022 µg/l	TM178		0.06	0.05	0.05
Fluorene (aq)	<0.014 µg/l	TM178		0.03	0.02	0.02
Chrysene (aq)	<0.013 µg/l	TM178		<0.013	0.03	<0.013
Pyrene (aq)	<0.015 µg/l	TM178		0.06	0.1	0.03
Benzo(a)anthracene (aq)	<0.017 µg/l	TM178		<0.017	0.02	<0.017
Benzo(b)fluoranthene (aq)	<0.023 µg/l	TM178		<0.023	0.05	<0.023
Benzo(k)fluoranthene (aq)	<0.027 µg/l	TM178		<0.027	<0.027	<0.027
Benzo(a)pyrene (aq)	<0.009 µg/l	TM178		<0.009	0.03	<0.009
Dibenzo(a,h)anthracene (aq)	<0.016 µg/l	TM178		<0.016	<0.016	<0.016
Benzo(g,h,i)perylene (aq)	<0.016 µg/l	TM178		<0.016	0.03	<0.016
Indeno(1,2,3-cd)pyrene (aq)	<0.014 µg/l	TM178		<0.014	0.02	<0.014
Polyaromatic hydrocarbons, Total USEPA 16 (aq)	<0.1 µg/l	TM178		0.26	0.51	0.16

Validated

ALcontrol Laboratories Analytical Services

SDG:	100719-5	**Customer:**	BWB Consulting
Job:	H_BWB_NTT-81	**Attention:**	Richard Robinson
Client Reference:	NTE 285	**Order No.:**	NE09/619
Location:	THE DOVE WAY UTTOXETER	**Report No:**	91589

TPH CWG (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.

Component	LOD/Units	Method	Customer Sample Ref.	BROOK-DOWN	BROOK-MID	BROOK-UP
			Depth (m)			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	15/07/2010	15/07/2010	15/07/2010
			Date Received	19/07/2010	19/07/2010	19/07/2010
			SDG Ref	100719-5	100719-5	100719-5
			Lab Sample No.(s)	1836045	1836018	1836224
Total Aliphatics >C5-C35 (aq)	<10 µg/l	TM174		<10	<10	<10
Total Aromatics >C6-C35 (aq)	<10 µg/l	TM174		<10	<10	<10
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174		<10	<10	<10
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174		<10	<10	<10
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174		<10	<10	<10
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174		<10	<10	<10
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174		<10	<10	<10
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174		<10	<10	<10
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174		<10	<10	<10
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174		<10	<10	<10
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174		<10	<10	<10
Total Aliphatics & Aromatics >C12-C35 (Aqueous)	<10 µg/l	TM174		<10	<10	<10
GRO Surrogate % recovery**	%	TM245		87	96	103
GRO >C5-C12	<50 µg/l	TM245		<50 #	<50 #	<50 #
Benzene	<7 µg/l	TM245		<7 #	<7 #	<7 #
Ethylbenzene	<5 µg/l	TM245		<5 #	<5 #	<5 #
Toluene	<4 µg/l	TM245		<4 #	<4 #	<4 #
m,p-Xylene	<8 µg/l	TM245		<8 #	<8 #	<8 #
o-Xylene	<3 µg/l	TM245		<3 #	<3 #	<3 #
m,p,o-Xylene	<10 µg/l	TM245		<10 #	<10 #	<10 #
BTEX, Total	<10 µg/l	TM245		<10 #	<10 #	<10 #
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245		<3 #	<3 #	<3 #
Aliphatics >C5-C6	<10 µg/l	TM245		<10	<10	<10
Aliphatics >C6-C8	<10 µg/l	TM245		<10	<10	<10
Aliphatics >C8-C10	<10 µg/l	TM245		<10	<10	<10
Aliphatics >C10-C12	<10 µg/l	TM245		<10	<10	<10
Aromatics >C6-C7	<10 µg/l	TM245		<10	<10	<10
Aromatics >C7-C8	<10 µg/l	TM245		<10	<10	<10
Aromatics >EC8-EC10	<10 µg/l	TM245		<10	<10	<10
Aromatics >EC10-EC12	<10 µg/l	TM245		<10	<10	<10
Total Aliphatics >C5-C12	<10 µg/l	TM245		<10	<10	<10
Total Aromatics >C6-C12	<10 µg/l	TM245		<10	<10	<10

Table of Results - Appendix

SDG Number : 100719-5 **Client :** BWB Consulting **Client Ref :** NTE 285

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10-7

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample [1]
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)	
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser	
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter	
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS	
TM172	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	EPH in Waters	
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID	
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters	
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry	
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers	
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate	
TM245	By GC-FID	Determination of GRO by Headspace in waters	
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter	
TM259			

[1] Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

APPENDIX

APPENDIX

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH_4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.
2. Samples will be run in duplicate upon request, but an additional charge may be incurred.
3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.
4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.
5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.
6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.
7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample – similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.
8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.
9. NDP – No determination possible due to insufficient/unsuitable sample.
10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals – total metals must be requested separately.
11. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.
12. Results relate only to the items tested
13. **Surrogate recoveries** – Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 – 130 %.
14. **Product analyses** – Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.
15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).
16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).
17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.
18. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.
19. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.
19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.
20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.
21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.
22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials – whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.
23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 – C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAH MS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC MS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GS MS
SVOC	DCM	LIQUID/LIQUID SHAKE	GC MS
FREE SULPHUR	DCM	SOLID PHASE EXTRACTION	HPLC
PEST OCP/OPP	DCM	LIQUID/LIQUID SHAKE	GC MS
TRIAZINE HERBS	DCM	LIQUID/LIQUID SHAKE	GC MS
PHENOLS MS	DCM	SOLID PHASE EXTRACTION	GC MS
TPH by INFRA RED (IR)	TCE	LIQUID/LIQUID EXTRACTION	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID EXTRACTION	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GC FID

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
Solvent Extractable Matter	D&C	DCM	SOXTHERM	GRAVIMETRIC
Cyclohexane Ext. Matter	D&C	CYCLOHEXANE	SOXTHERM	GRAVIMETRIC
Thin Layer Chromatography	D&C	DCM	SOXTHERM	IATROSCAN
Elemental Sulphur	D&C	DCM	SOXTHERM	HPLC
Phenols by GCMS	WET	DCM	SOXTHERM	GC-MS
Herbicides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
Pesticides	D&C	HEXANE:ACETONE	SOXTHERM	GC-MS
EPH (DRO)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Min oil)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH (Cleaned up)	D&C	HEXANE:ACETONE	END OVER END	GC-FID
EPH CWG by GC	D&C	HEXANE:ACETONE	END OVER END	GC-FID
PCB tot / PCB con	D&C	HEXANE:ACETONE	END OVER END	GC-MS
Polyaromatic Hydrocarbons (MS)	WET	HEXANE:ACETONE	Microwave TM218.	GC-MS
C8-C40 (C6-C40)EZ Flash	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Polyaromatic Hydrocarbons Rapid GC	WET	HEXANE:ACETONE	SHAKER	GC-EZ
Semi Volatile Organic Compounds	WET	DCM:ACETONE	SONICATE	GC-MS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content.

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: -

Trace – Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in MDHS 100.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

APPENDIX 7

GEOTECHNICAL LABORATORY TESTING

PSL
Professional Soils Laboratory

LABORATORY REPORT

UKAS TESTING
4043

Contract Number: PSL10/1341

Client's Reference: Report Date: 04 August 2010

Client Name: BWB Consulting
3-4 Kayes Walk
The Lace Market
Nottingham

NG1 1PY

For the attention of: Richard Robinson

Contract Title: The Dove Way, Uttoxeter

Date Received: 19-Jul-10
Date Commenced: 19-Jul-10
Date Completed: 4-Aug-10

Notes: **Observations and Interpretations are outside the UKAS Accreditation**

Checked and Approved Signatories:

R Gunson	A Watkins	D Lambe
(Director)	(Director)	(Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rgunson@prosoils.co.uk
awatkins@prosoils.co.uk

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
BH1		D	1.80	Dark brown gravelly sandy CLAY
BH1		B	4.00-4.50	Brown sandy slightly silty GRAVEL with some cobbles.
BH2		B	3.00-3.50	Brown sandy slightly silty GRAVEL.
BH2		B	6.50-7.00	Brown sandy slightly silty GRAVEL.
BH2		D	8.90	Reddish brown very sandy CLAY.
BH3		D	2.60	Brown slightly sandy CLAY.
BH3		B	4.00-4.50	Brown very sandy silty GRAVEL with occasional cobbles.
BH3		B	6.50-7.00	Brown sandy slightly silty GRAVEL.
BH3		D	8.40	Reddish brown very sandy CLAY.
BH4		D	0.90	Brown slightly sandy CLAY.
BH4		B	1.50-2.00	Brown sandy slightly silty GRAVEL.
BH4		B	3.00-3.50	Brown very sandy slightly silty GRAVEL.
BH4		D	5.40	Reddish brown slightly gravelly very sandy CLAY.
BH5		D	3.00	Reddish brown very sandy CLAY.
BH6		D	0.50	Brown slightly gravelly very sandy CLAY.
BH6		B	3.00-3.50	Brown slightly gravelly slightly silty SAND.
BH6		D	6.70	Reddish brown very sandy CLAY.
BH7		B	0.20-0.70	MADE GROUND dark brown very sandy clayey gravel with some cobbles.
BH7		B	2.00-2.50	Brown very sandy slightly silty GRAVEL.

PSL
Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
MAR	29/07/10	ES	04/08/10	ES	04/08/10

THE DOVE WAY, UTTOXETER.

Contract No: PSL10/1341

Client Ref: NTE285

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
BH7		D	4.60	Reddish brown slightly gravelly very sandy CLAY.
BH8		B	3.00-3.50	Brown very sandy slightly silty GRAVEL.
BH8		D	6.00	Brown gravelly very sandy CLAY.
BH9		D	2.50	Reddish brown gravelly very sandy CLAY.
BH9		D	4.50	Reddish brown gravelly very sandy CLAY.
TP101		D	0.50	Brown mottled grey slightly sandy CLAY.
TP101		B	2.00	Brown very sandy silty GRAVEL.
TP108		B	2.20	Brown slightly gravelly slightly silty SAND.

PSL
Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
Mar	29/07/10	ES	04/08/10	ES	04/08/10

THE DOVE WAY, UTTOXETER.

Contract No: PSL10/1341

Client Ref: NTE285

SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Depth m	Moisture Content % Clause 3.2	Bulk Density Mg/m^3 Clause 7.2	Dry Density Mg/m^3 Clause 7.2	Particle Density Mg/m^3 Clause 8.	Liquid Limit % Clause 4.3/4.4	Plastic Limit % Clause 5.	Plasticity Index % Clause 6.	% Passing .425mm	Remarks
BH1		D	1.80	25				43	24	19	80	Intermediate plasticity CI.
BH2		D	8.90	15				32	18	14	100	Low plasticity CL.
BH3		D	2.60	34				56	26	30	100	High plasticity CH.
BH3		D	8.40	17				32	19	13	100	Low plasticity CL.
BH4		D	0.90	28				55	27	28	100	High plasticity CH.
BH4		D	5.40	18				30	17	13	96	Low plasticity CL.
BH5		D	3.00	20				34	20	14	100	Low plasticity CL.
BH6		D	0.50	22				29	17	12	95	Low plasticity CL.
BH6		D	6.70	24				34	20	14	100	Low plasticity CL.
BH7		D	4.60	18				32	20	12	98	Low plasticity CL.
BH8		D	6.00	21				31	19	12	84	Low plasticity CL.
BH9		D	2.50	12				27	15	12	81	Low plasticity CL.
BH9		D	4.50	17				28	17	11	80	Low plasticity CL.
TP101		D	0.50	34				53	26	27	100	High plasticity CH.

SYMBOLS : NP : Non Plastic *** : Liquid Limit and Plastic Limit Wet Sieved.**

PSL Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
Mar	29/07/10	CS	04/08/10	CS	04/08/10

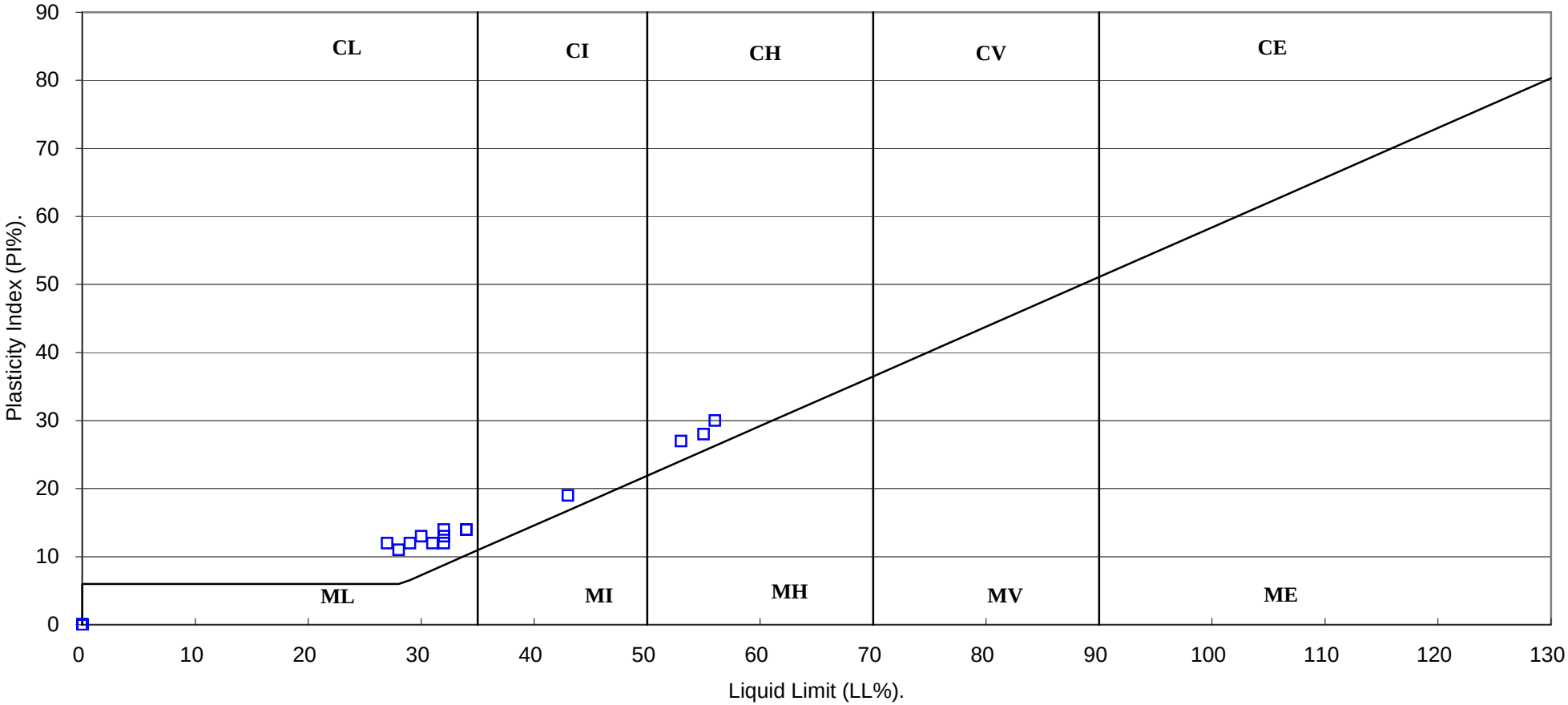
THE DOVE WAY, UTTOXETER.

Contract No: **PSL10/1341**

Client Ref: **NTE285**

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



PSL Professional Soils Laboratory	Compiled by	Date	Checked by	Date	Approved by	Date
		29/07/10		04/08/10		04/08/10
	THE DOVE WAY, UTTOXETER.				Contract No:	PSL10/1341
					Client Ref:	NTE285

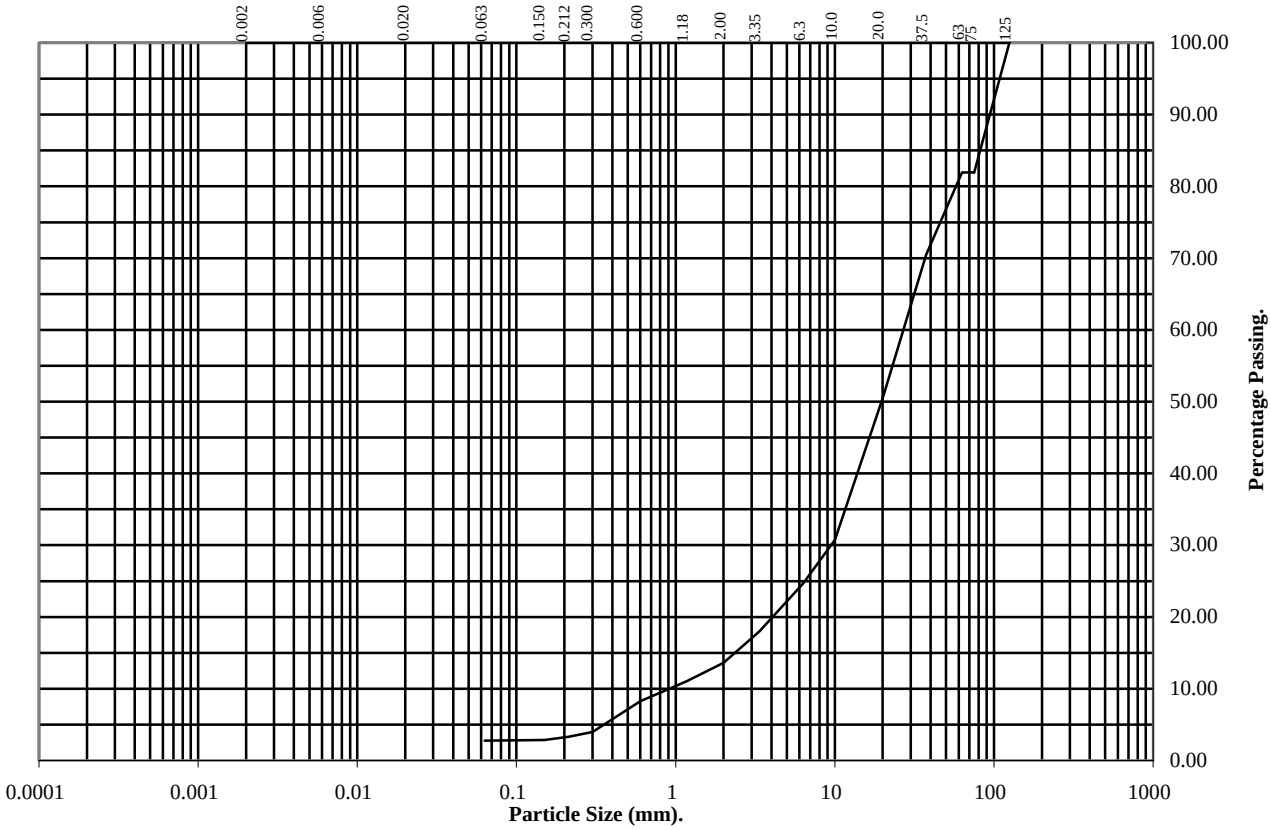
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH1** **Depth (m):** **4.00-4.50**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	82
63	82
37.5	70
20	50
10	31
6.3	25
3.35	18
2	14
1.18	11
0.6	8
0.3	4
0.212	3
0.15	3
0.063	3

Soil Fraction	Total Percentage
Cobbles	18
Gravel	68
Sand	11
Silt / Clay	3

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

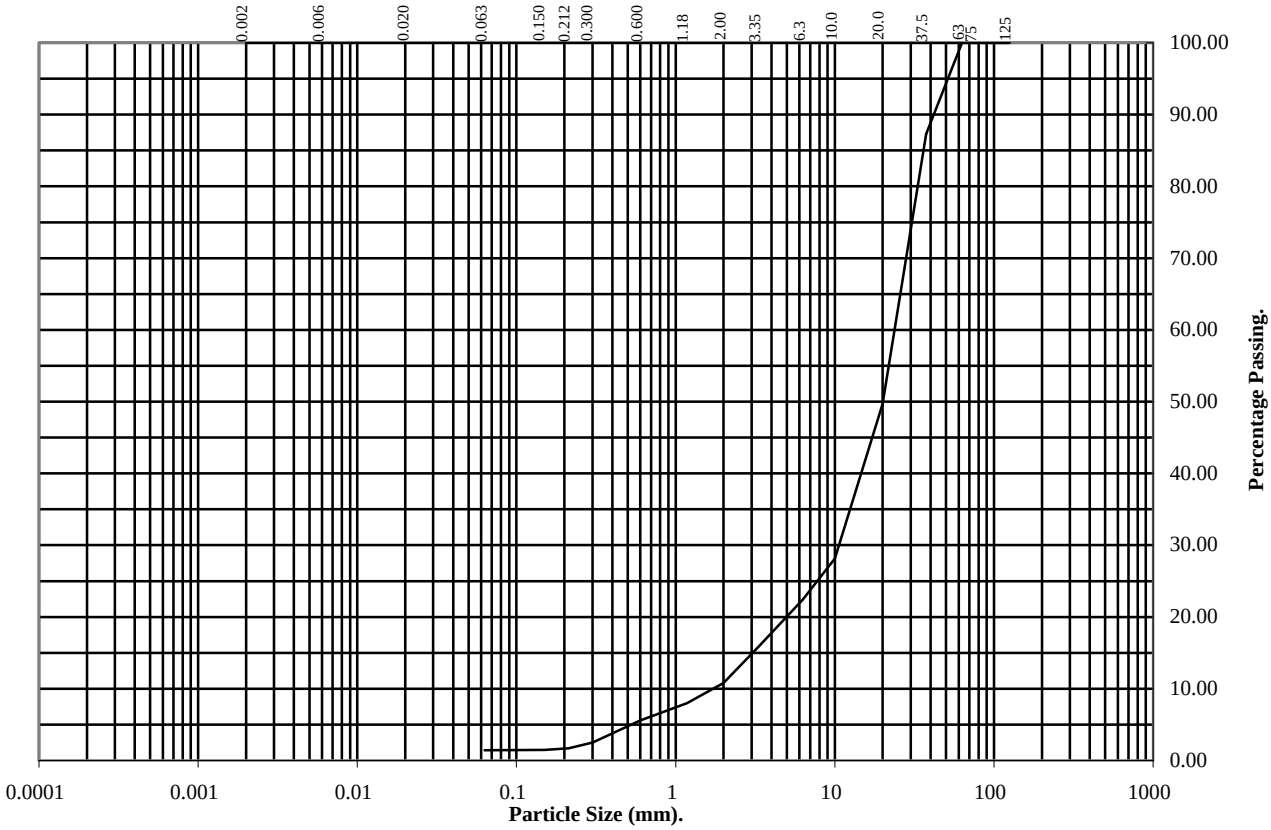
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH2** **Depth (m):** **3.00-3.50**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	87
20	50
10	28
6.3	22
3.35	16
2	11
1.18	8
0.6	6
0.3	2
0.212	2
0.15	1
0.063	1

Soil Fraction	Total Percentage
Cobbles	0
Gravel	89
Sand	10
Silt / Clay	1

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

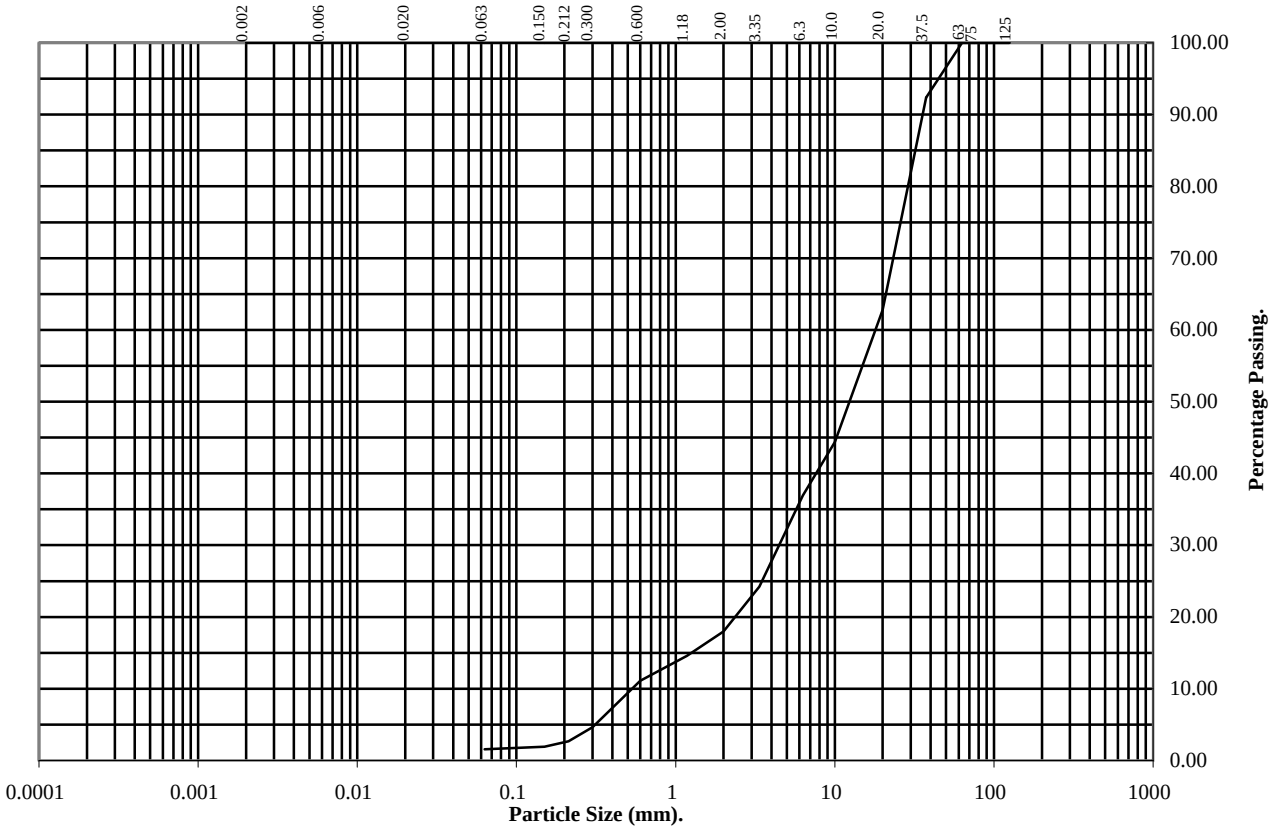
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH2** **Depth (m):** **6.50-7.00**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	92
20	63
10	44
6.3	37
3.35	24
2	18
1.18	15
0.6	11
0.3	5
0.212	3
0.15	2
0.063	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	82
Sand	16
Silt / Clay	2

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

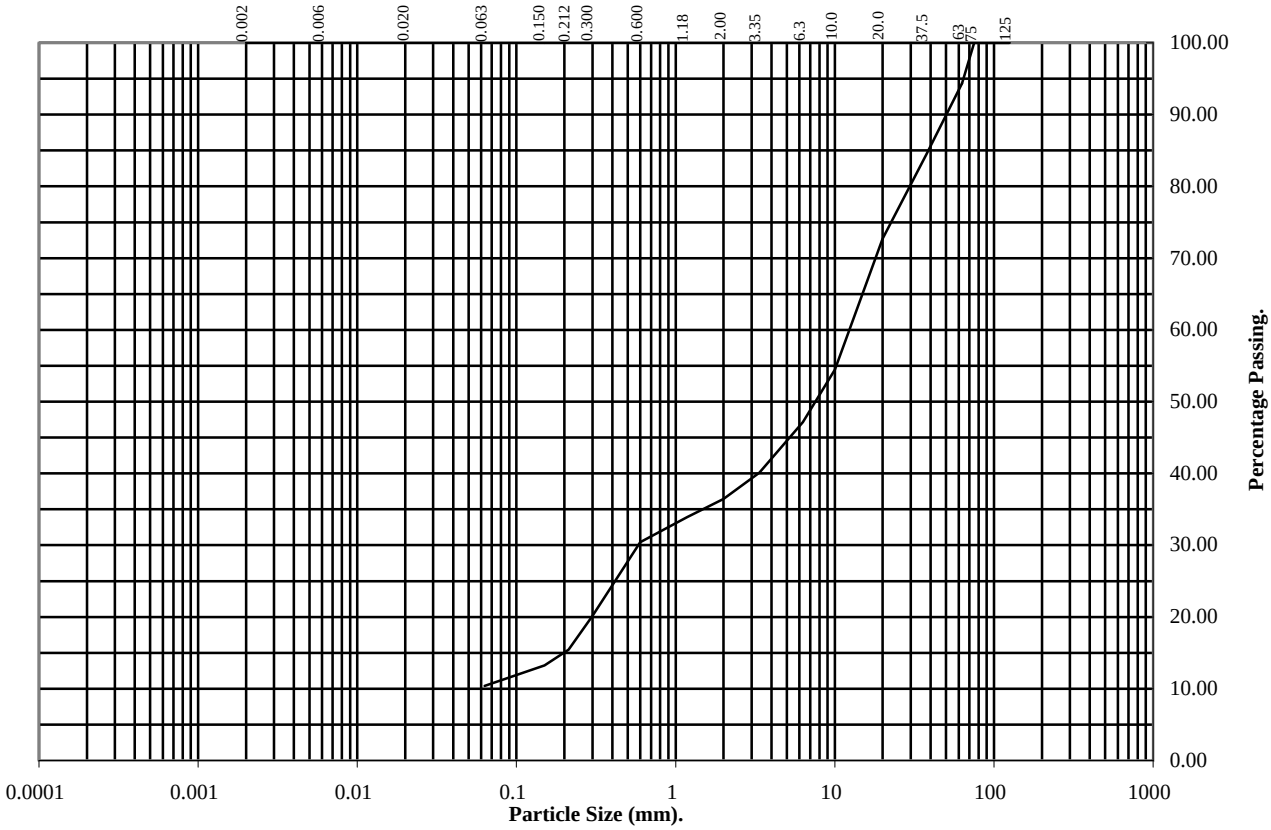
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH3** **Depth (m):** **4.00-4.50**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	94
37.5	84
20	73
10	54
6.3	47
3.35	40
2	36
1.18	34
0.6	30
0.3	20
0.212	15
0.15	13
0.063	10

Soil Fraction	Total Percentage
Cobbles	6
Gravel	58
Sand	26
Silt / Clay	10

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

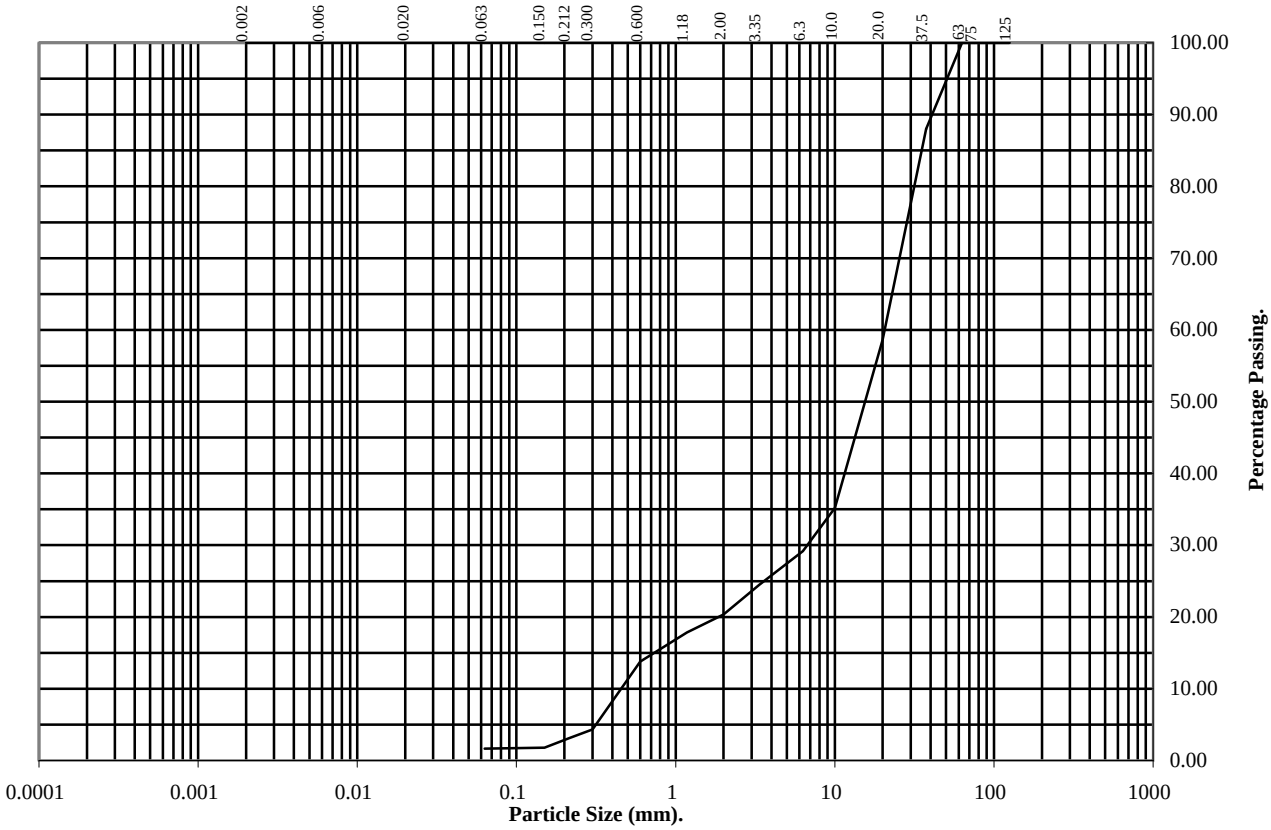
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH3** **Depth (m):** **6.50-7.00**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	88
20	59
10	35
6.3	29
3.35	24
2	20
1.18	18
0.6	14
0.3	4
0.212	3
0.15	2
0.063	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	80
Sand	18
Silt / Clay	2

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

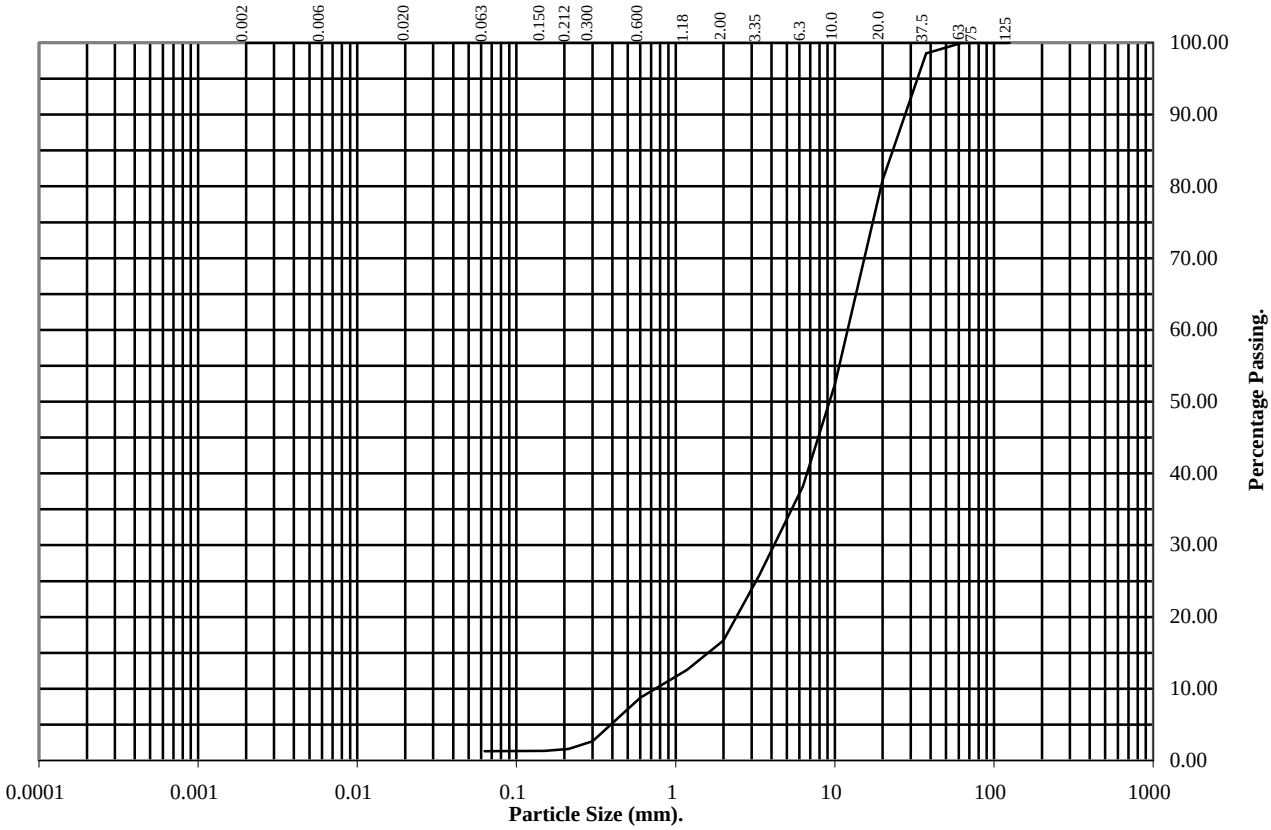
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH4** **Depth (m):** **1.50-2.00**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	99
20	81
10	52
6.3	38
3.35	26
2	17
1.18	13
0.6	9
0.3	3
0.212	2
0.15	1
0.063	1

Soil Fraction	Total Percentage
Cobbles	0
Gravel	83
Sand	16
Silt / Clay	1

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

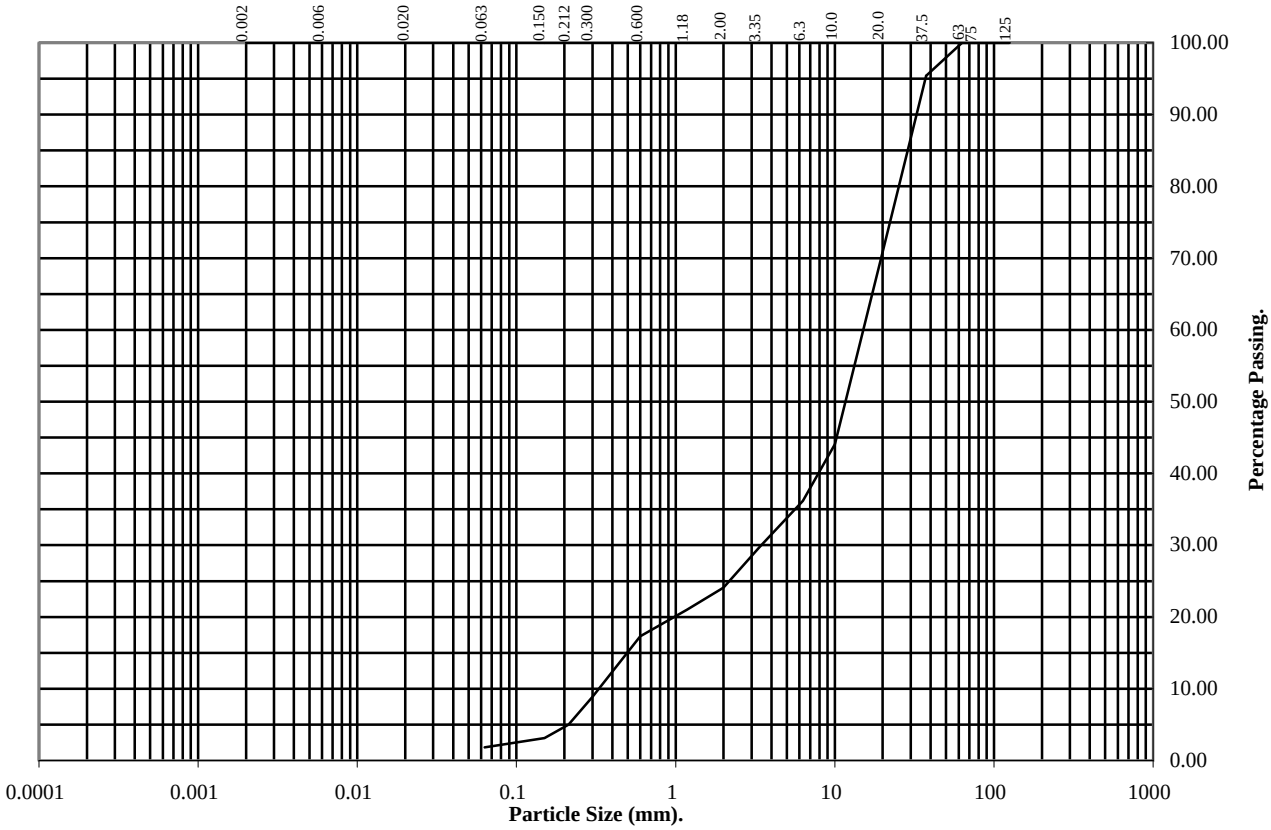
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH4** **Depth (m):** **3.00-3.50**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	95
20	71
10	44
6.3	36
3.35	30
2	24
1.18	21
0.6	17
0.3	9
0.212	5
0.15	3
0.063	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	76
Sand	22
Silt / Clay	2

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

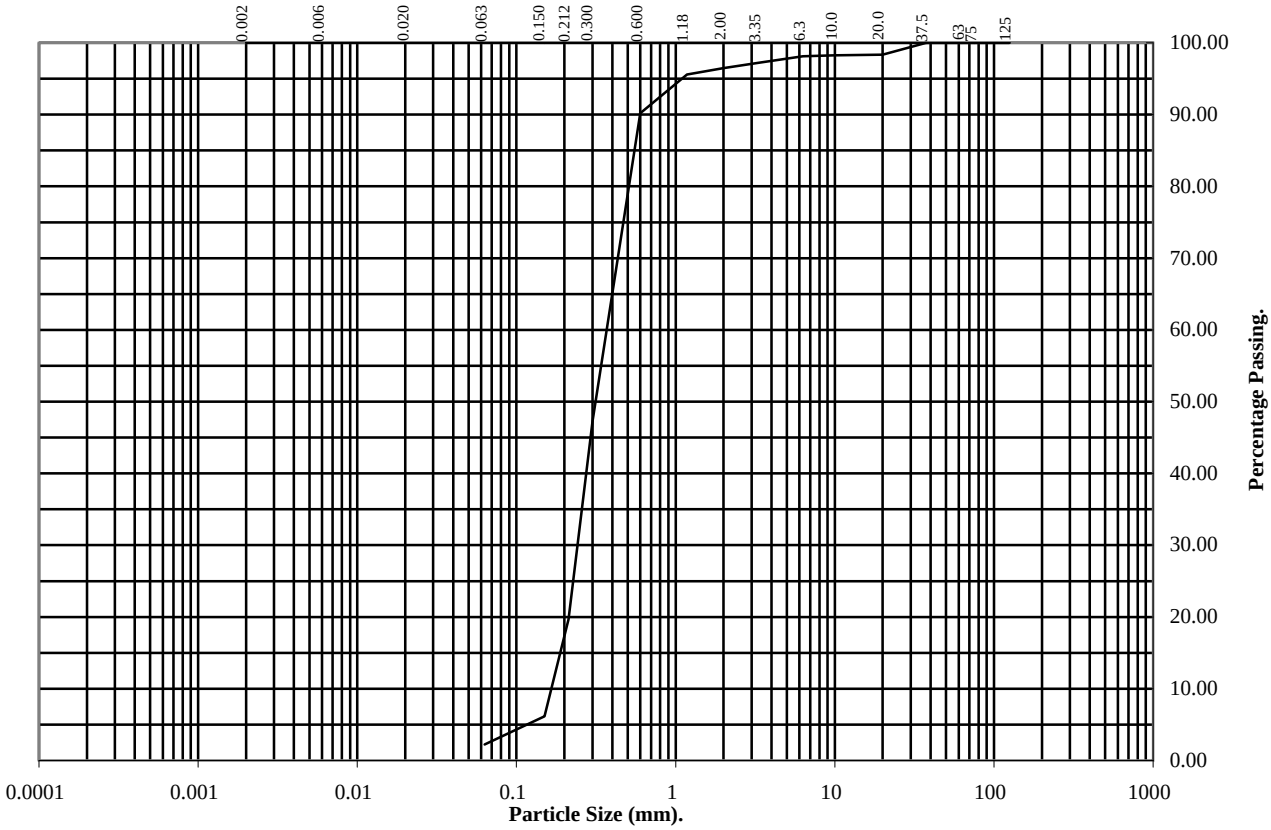
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH6** **Depth (m):** **3.00-3.50**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	98
10	98
6.3	98
3.35	97
2	96
1.18	96
0.6	90
0.3	47
0.212	20
0.15	6
0.063	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	4
Sand	94
Silt / Clay	2

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

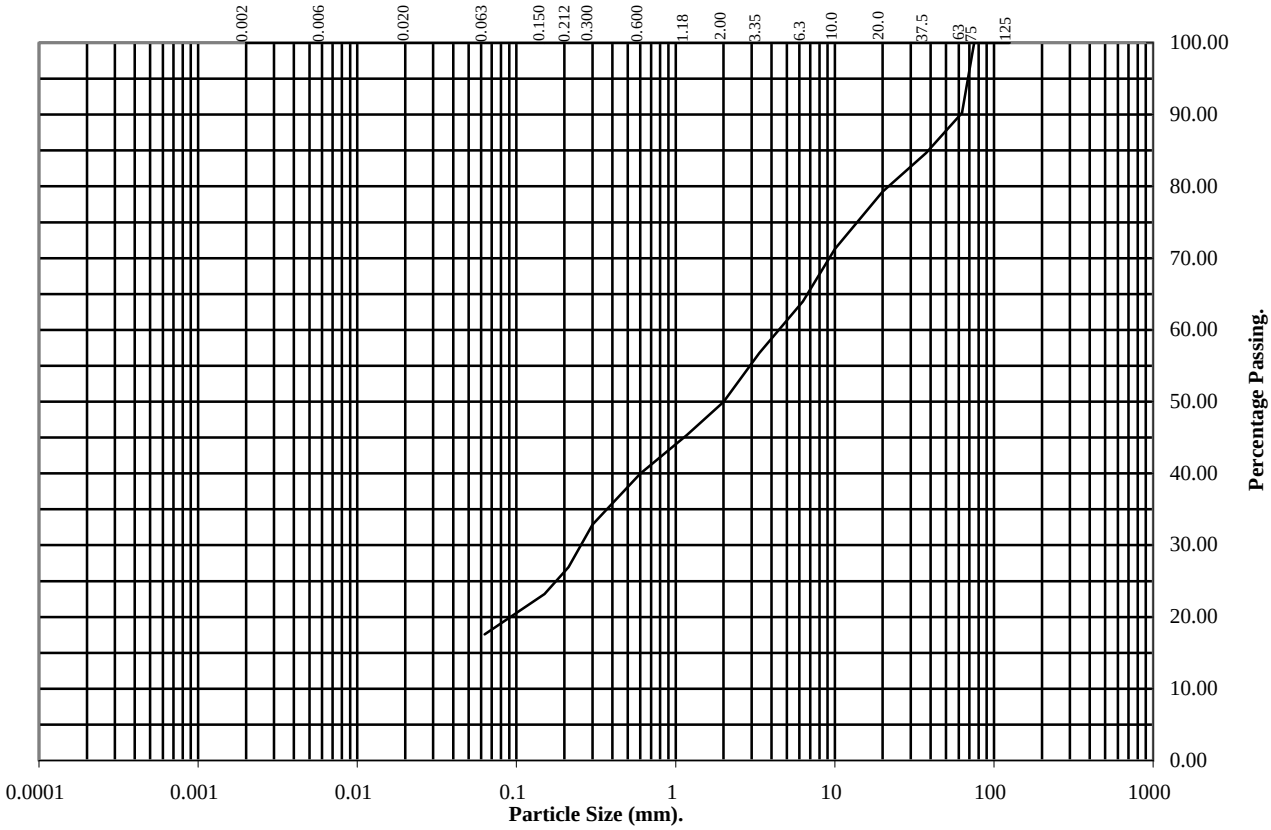
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH7** **Depth (m):** **0.20-0.70**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	90
37.5	85
20	79
10	71
6.3	64
3.35	57
2	50
1.18	45
0.6	40
0.3	33
0.212	27
0.15	23
0.063	18

Soil Fraction	Total Percentage
Cobbles	10
Gravel	40
Sand	32
Silt / Clay	18

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

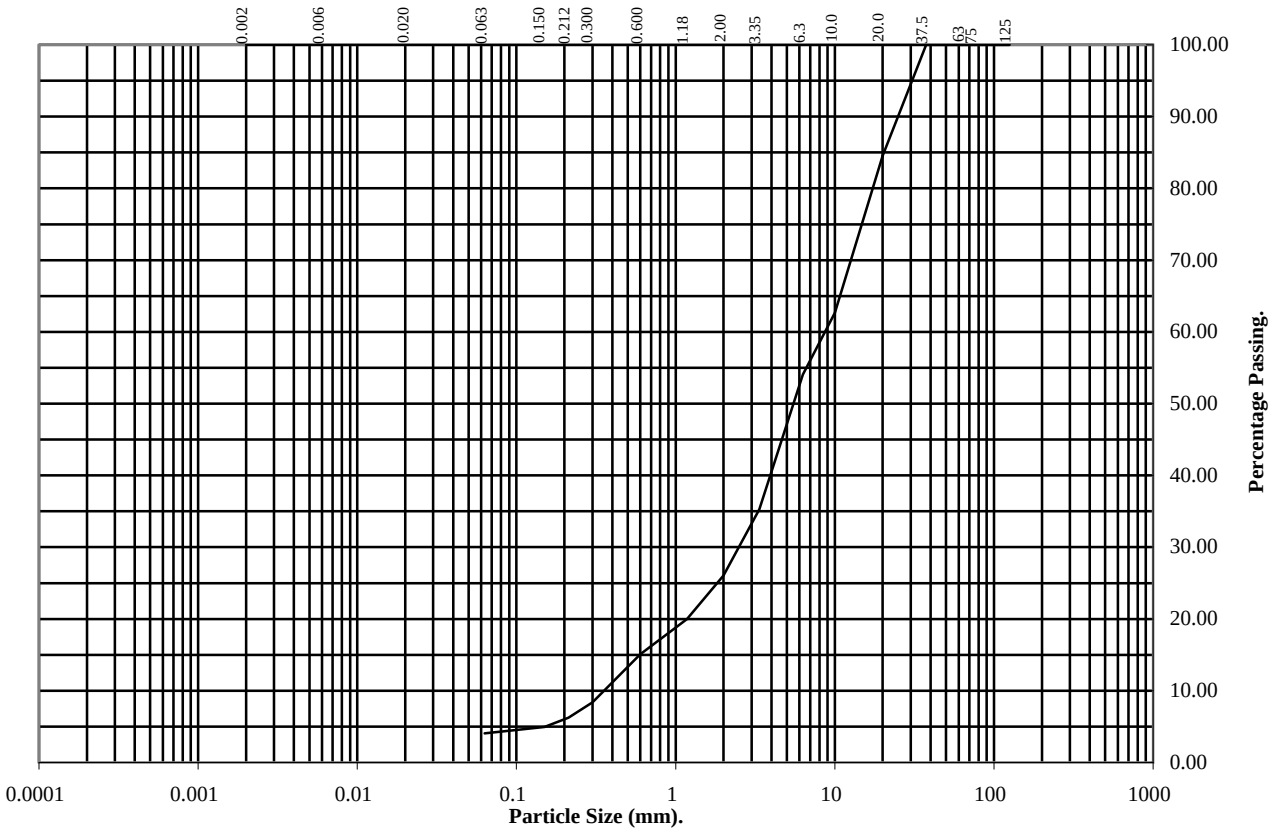
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH7** **Depth (m):** **2.00-2.50**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	85
10	63
6.3	54
3.35	35
2	26
1.18	20
0.6	15
0.3	8
0.212	6
0.15	5
0.063	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	74
Sand	22
Silt / Clay	4

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

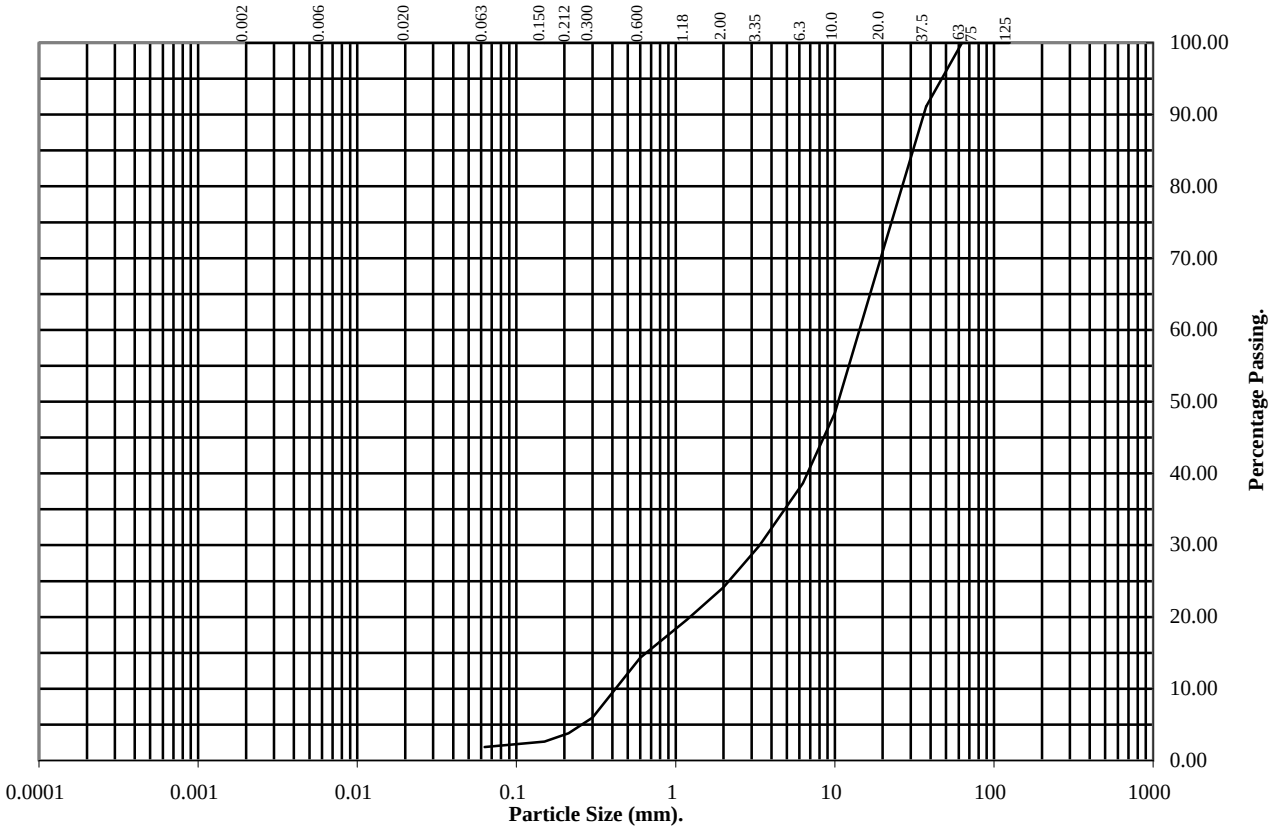
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH8** **Depth (m):** **3.00-3.50**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	91
20	71
10	48
6.3	39
3.35	30
2	24
1.18	20
0.6	14
0.3	6
0.212	4
0.15	3
0.063	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	76
Sand	22
Silt / Clay	2

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

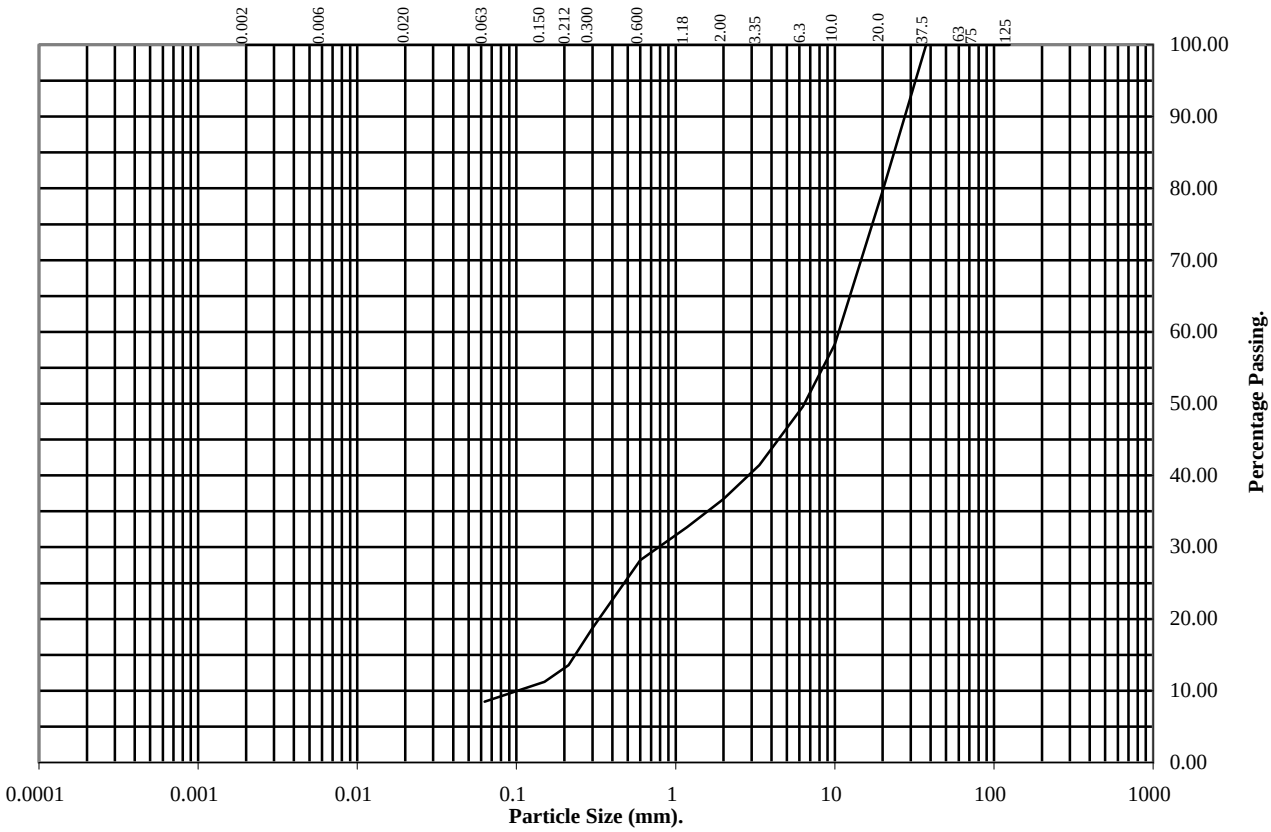
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP101** **Depth (m):** **2.00**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	80
10	58
6.3	50
3.35	41
2	37
1.18	33
0.6	28
0.3	19
0.212	14
0.15	11
0.063	8

Soil Fraction	Total Percentage
Cobbles	0
Gravel	63
Sand	29
Silt / Clay	8

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

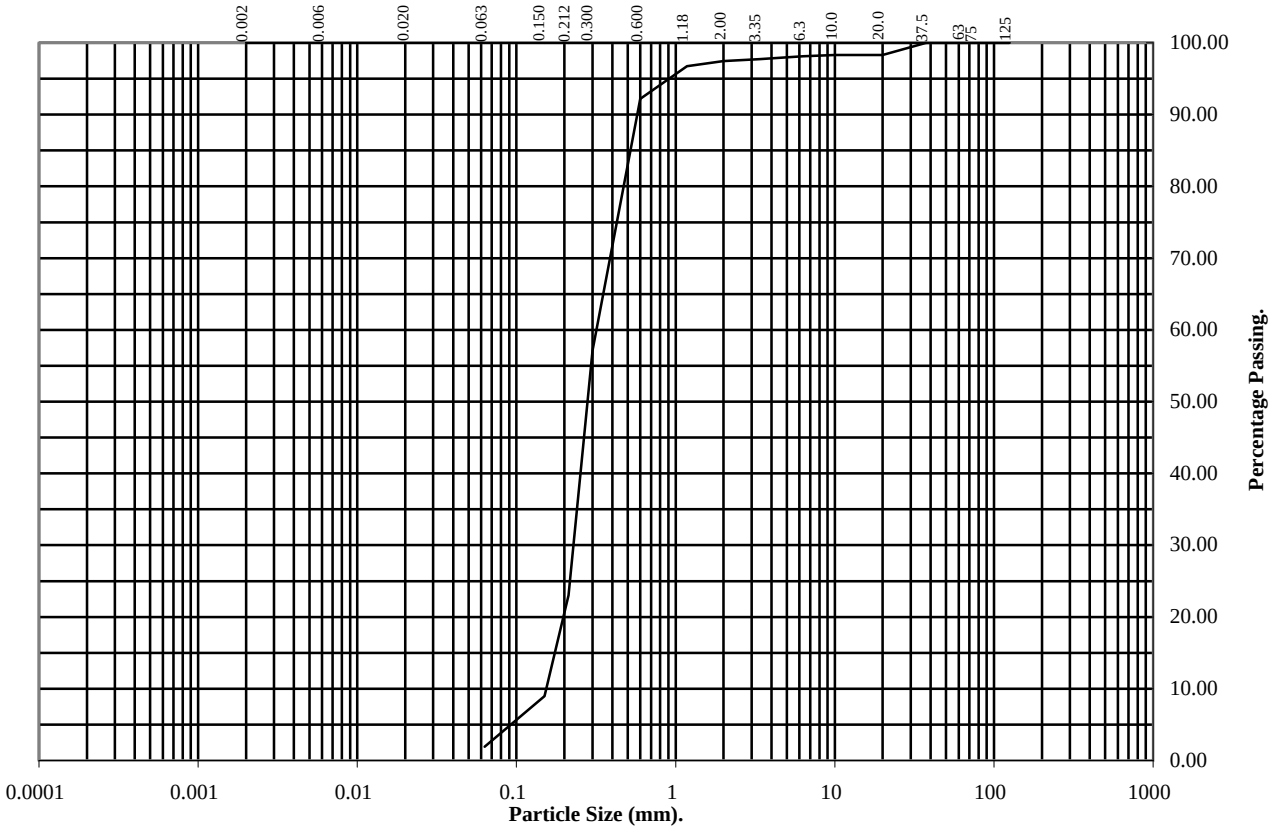
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP108** **Depth (m):** **2.20**

Sample Number: **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	98
10	98
6.3	98
3.35	98
2	97
1.18	97
0.6	92
0.3	57
0.212	23
0.15	9
0.063	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	3
Sand	95
Silt / Clay	2

Remarks:

See summary of soil descriptions.

Checked By	Date	Approved By	Date
	04/08/10		04/08/10

PSL Professional Soils Laboratory	**THE DOVE WAY, UTTOXETER.**	**Contract No.: PSL10/1341**

W bwbconsulting.com

Birmingham | Derby | Leeds | Leicester | Nottingham