Appendices

Appendix A Report Conditions

WYG ENVIRONMENT

APPENDIX A - REPORT CONDITIONS

REMEDIATION

This report is produced solely for the benefit of VINCI Construction UK Limited and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report is based on a visual site inspection, study of readily to accessible referenced historical records, the physical investigation as detailed, information supplied by those parties noted in the text, the evaluation presented and discussions with local and Statutory Authorities. Some of the opinions are based on unconfirmed data and information and are presented in good faith without exhaustive clarification. The test results that are available can only be regarded as a limited characterisation but likely representative sample assessed against current UK and other text referenced guidelines. The impact of our assessment on other aspects of the development requires evaluation by other involved parties. The possibility of the presence of contaminants not revealed by this research, perhaps in higher concentrations, elsewhere on the site cannot be discounted.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, being subject to risk analysis, we are unable to give categoric assurances that they will be accepted by Authorities or Funds etc. without question, as such bodies have unpublished, often more stringent objectives. This report is prepared and written for the purpose stated in the report and should not be used in a different context without reference to WYG. In time improved practices or amended legislation may necessitate a re-assessment.

The report is necessarily limited to those aspects of land contamination specifically reported on and no liability is accepted for any other aspect especially concerning gradual or sudden pollution incidents that may occur. The opinions expressed cannot be absolute due to the limitations of time and resources within the context of the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites. If the migrating pollution or contamination (past or present) exists this can only practically be better assessed following extensive on and off site intrusive investigations and monitoring.

Appendix B Phasing of Works Correspondence

Mark Hand
MH/SAD/03/1531/05

01633 656656
01633 232506
01633 232334
33238 Newport (South Wales)(1)
mark.hand@newport.gov.uk

Vinci Investments Limited
Astral House
Imperial Way
Watford
Hertfordshire
WD24 4WW

18 November 2008

For the attention of Mr. M. Hunt

Dear Sirs

Development at Glebelands, Newport
Planning Permissions 00/0768/0 and 03/1531/RM

I refer to the letter from Norwest Holst dated 14 July 2008.

It is my understanding from that letter, which has subsequently been confirmed in the email dated 02 October 2008 from Alf Ropke, that all works will be carried out in accordance with the details already agreed by the Local Planning Authority, albeit now in a phased manner to allow the completion of the school independently from the residential development, which is currently on hold.

It is my understanding that the phasing of the site would define the school site as being the land to the north of the reen. Following remediation, the land to the north of the reen is to be graded and seeded so as to not detract from the setting of the new school. The school site will be fully remediated in accordance with the previously agreed details and certification of remediation will be provided, in accordance with Condition 07 of outline permission 00/0768, prior to the first use of the school site. It is my understanding that the level of the school site and land to the north of the reen is already above the level required by the Environment Agency and the approved remediation scheme includes a 600mm cap layer which is to be completed prior to certification and first use of the school site.

It is my understanding that the remediation of land to the south of the reen (the housing site) is to be completed by the future developer in accordance with the previously approved details, and land levels raised in accordance with the Environment Agency's requirements. The housing site would be subject to a separate certification (as required by Condition 07) that the remediation has been completed in accordance with the approved scheme, on completion of the remediation works and prior to the occupation of any dwelling.

Continued.../

Had it been known at the time outline permission was granted that development would need to be phased in this way, the planning conditions would have been worded accordingly at that time. I therefore have no objection to the proposed phasing of the development, as this does not affect the spirit or purpose of the planning conditions, which will be complied with as per the approved details, albeit now in a phased manner.

In accordance with the above phasing arrangement, an application would be required, prior to first use of the school, to partially discharge condition 07 of outline planning permission 00/0768 in relation to the school site only. A similar application would be submitted at a future date by the housing developer to partially discharge that condition for the housing site.

On the above basis, I have no objection to the phasing of the development as described in your letter dated 14 July 2008 and the email from Alf Ropke dated 02 October 2008.

Yours faithfully

Mark Hand
Development Control Manager

Appendix C Summary of Previous Site Investigations

Summary of Previous Site Investigations

Prior to WYGE involvement in the scheme, three previous ground contamination site investigations had been undertaken on part or the whole of the site and are detailed in chronological order as follows:

- Environmental Advisory Unit (EAU), 1994 comprising six cable percussive boreholes within the northern part of the site (WG15 to WG20).

- Integral Geotechnique, under the direction of RPT, April 1995 comprising fifteen mechanically excavated trial pits within the southern part of the site (TPC1 to TPC15).

- Exploration Associates, under the direction of Gwent Consultancy, April 2000 comprising eleven cable percussive boreholes and twenty seven mechanically excavated trial pits over the entire site (BH1 to BH11 and TP1 to TP27).

WYGE Ground Conditions Desk Top Study (August 2003)

In addition to summarising and assessing the previous work on the site, the WYGE Ground Conditions Desk Top Study (August 2003) also sought information from a series of sources, including historical maps, statutory consultees and environmental databases, to ascertain the history and context of the site.

The recommendations of the desk study stated that further site investigation was required to provide more detailed information for quantitative risk assessment (as planning conditions request) and geotechnical assessment of the site in light of proposed development/end use. Long term land-gas monitoring was also recommended (and is also a planning consideration).

WYGE Ground Investigation (September 2003)

This ground investigation was undertaken by Norwest Holst but was designed and supervised by WYGE. It was reported in full in the Site Investigation Interpretative Report dated October 2003 (WYGE reference E3808/ CBP/GIR/OCT2003/V1

WYGE Tier 3 QRA (October 2003)

The full rationale, methodology, results and recommendations of the QRA are included within the report entitled 'Quantitative Risk Assessment of Ground Conditions recorded during the 2000 and 2003 Site Investigations' dated October 2003 (WYGE reference E3808/JV/SP/Oct2003/QRA/V1).

WYGE Ground Investigation (October 2004)

The purpose of this supplementary investigation was:

- To provide sufficiently detailed parameters to allow the generation of a robust geotechnical design solution for the site.

- To allow a better assessment of the extent and severity of PCB drum contamination in the area immediately to the north of the reen. The area coincident with historic tipping of suspected PCB impacted drum waste.

Norwest Holst Ground Investigation (March 2007)

The purpose of the investigation was to determine the extent of the contamination around three of the previously identified hot spots of PCB waste and to determine the ease with which the contamination could be visually identified with a view to determining suitable remediation recommendations.

Appendix D WYG Performance Criteria

Chemical criteria for import of material

Determinand	Criteria value (mg/kg)
Total phenols	20
Acenaphthene	35
Acenaphthalene	5
Anthracene	115
Benzo(a)anthracene	3
Benzo(a)pyrene	0.5
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	3
Benzo(g,h,i)perylene	250
Chrysene	15
Di-benzo(a,h)anthracene	0.6
Indeno(1,2,3-cd)pyrene	5
Fluoranthene	15
Fluorene	50
Naphthalene	10
Phenathrene	90
Pyrene	130
Arsenic	20
Cadmium	1
Chromium	130
Lead	450
Mercury	8
Nickel	50
Selenium	35
Benzene	0.03
Toluene	3
Ethylbenzene	9
Xylene	6
TPH (total)	25
PCBs (total)	0.17

Chemical validation criteria for PCB area

Congener	RTV (mg/kg)
PCB 28	10.4
PCB 52	4.25
PCB 101	9.2
PCB 118	29.4
PCB 138	4.94
PCB 153	7.13
PCB 180	2.57

Client: Norwest Holst

Project: DURHAM ROAD SCHOOL, GLEBLANDS, NEWPORT

MONITORING PERFORMANCE SPECIFICATION

White Young Green

Monitoring Boreholes

The location and number of groundwater monitoring locations has previously been with the Environment Agency (15th March 2006) and a plan showing these positions was included within the WYGE Performance Criteria for Remediation Report no. E3808/GO/PerfCriteria/Jan06/V1. We have reviewed these requirements in light of the revised scheme and removed all positions that we believe were primarily for the residential part of the development.

The attached drawing (102) shows the location of the proposed and previously agreed monitoring positions. In summary there are to be two screening depths; either within the made ground to monitor any perched waters, or within the sandstone aquifer to monitor the aquifer waters.

The table below summarise the proposed monitoring boreholes:

Position	Anticipated depth	Installation	Existing suitable borehole
BH601	3.5m	Made ground	None
BH602	3.5m	Made ground	None. BH513 installed within Alluvium
BH603	3.5m	Made ground	None. BH406 installed in 1994 and cannot be located.
BH604	3.5m	Made ground	None
BH605	3.5m	Made ground	None
BH606	3.5m	Made ground	None
BH607	3.5m	Made ground	None
BH608	3.5m	Made ground	None
BH701	12m	Old Red Sandstone	BH504
BH702	12m	Old Red Sandstone	None

These monitoring positions have been adjusted to the current redevelopment plans for the northern half of the site (i.e. school development) and do not include any groundwater monitoring positions within the southern half of the site. Having carefully reviewed the locations and installation details of the previously installed monitoring positions, it is unfortunate that only one borehole, BH504, is suitable for potential re-use. WYGE will conduct a site visit to check the serviceability of BH504. However, it is recommended that consideration be given to the installation of a new well in a more desired location.

For validation purposes, the presence of WYGE is required during monitoring well installation to check and validate the works. NHCL shall therefore inform WYGE, in good time, as to when such activities will take place.

Whilst the positions indicated on Figure 102 are not definitive, any alterations are to be agreed with WYGE prior to installation.

Groundwater monitoring frequency, suite of analysis and duration

The following text (as previously agreed with the EA, March 2006) outlines the operational and technical details of groundwater monitoring before, during and after the remediation works.

- One round of groundwater monitoring shall be undertaken prior to remediation work commencing.

- During remediation of the PCB area groundwater monitoring shall be undertaken weekly (approximately 6 week excavation programme).

- Following completion of PCB remediation groundwater monitoring will be undertaken monthly for a period of four months.

- During general construction works in the northern area (school and associated infrastructure) monitoring will be undertaken in this area every six weeks.

- Following completion of works in the northern area (school and associated infrastructure) one additional round of groundwater monitoring will be undertaken one month after works cease.

- On each monitoring visit, each installation shall be purged for five well volumes, and samples submitted to a WYGE approved chemical laboratory for analysis of a standard suite of contaminants as outlined in Table 1. The laboratory analytical detection limits are to be provided to WYGE prior to the start of the monitoring works to ensure suitability.

- The results of this groundwater monitoring are to be submitted to WYGE within 10 working days of sampling. WYGE will compare the results with the Tier 1 screening values. These values are based upon EQS saltwater values. These values are to be used as an initial screen. In the event of an exceedance of these values, one or all of the following actions will be undertaken as suitable:

    - Initiation of more detailed groundwater sampling and analysis
    - Installation of additional monitoring locations
    - Undertaking of revised source-pathway-receptor assessment
    - Temporary cessation of remediation works whilst revised safe working practices are devised

The remediation works are to be carried out in an “open-book” manner, and as such any decisions regarding the above will be communicated to the Environment Agency throughout the works.

Groundwater Sampling Methodology

We detail below the minimum requirements for obtaining groundwater samples from borehole monitoring wells located within minor aquifer at Durham Road Newport.

Groundwater purging should be carried out prior to taking groundwater samples in order to ensure that representative water sample are collected. The volume of water to be removed must be at least 5 well volumes. This should be calculated based on the known rest water level and base of well. Monitoring of field parameters will be required at key stages of the purging, as discussed below.

Install an appropriate length of clean Wattera tubing with an attached foot valve or use of bailer if required. Never use the same Wattera tubing/foot valve for more than one location. To purge the well, either use the automated pump or purge by hand. The footvalve should be located approximately equal distance between the rest water level and the base. Disturbance of sediment at the base of the borehole should be avoided. Purge the required volume of water to a suitable storage drum. No purged water should be discharged to the surrounding ground or public sewer/manholes etc.

Following purging, field indicator parameters (pH, dissolved oxygen (DO) conductivity and temperature) should be monitored and documented. This is carried out to ensure that the purging procedure is adequate and all stagnant water in the well has been removed. These parameters will begin to stabilise as purging proceeds and should stabilise completely at the end of purging. Field Indicator parameters should be measured and recorded twice for each purge volume removed (beginning and twice at end, 4^{th} and 5^{th} well volume to demonstrate stabilising of field indicator values). Water samples should not be taken until field indicator parameters have stabilised, which may require an extension of the monitoring period following purging to fully assess. Record observations of groundwater quality (this includes any odours and colour).

Extract further water directly into the laboratory provided sample bottles via the method as for purging (ie do not use a bailer as this will sample from the top of the water column and not at the depth of maximum recharging that is required). All samples are to be filtered on site to remove all sediment (dependant on individual laboratory requirements). Water samples should be packed securely in cool boxes. Although refrigeration is the best option for long term preservation for water samples, sample cooling to between 2^{o} and 5^{o}C in the absence of light is in most cases, sufficient to preserve the sample during transport to the laboratory and, for relatively short periods, prior to analysis

All purged water should be placed into temporary on-site storage for subsequent disposal. Storage containers should be sealed and appropriately labelled in a secure container. An approved reputable waste disposal company should be used and the correct waste transfer documentation obtained in line with the Duty of Care Regulations.

Reen monitoring

Where possible during the works two surface water samples from the Reen are to be monitored on a monthly basis during the PCB remediation works, and on a six-weekly basis during general construction works. Sampling locations indicated on Figure 102.

Air monitoring

During remediation works, air monitoring will be undertaken at weekly intervals in the locations indicated on Figure 102. This will consist of boundary monitoring of dust and asbestos, with the results informing the validation of the works and any requirements for reactive on-site management.

Land gas monitoring

The locations of land gas monitoring installations are indicated on Figure 102. Following completion of the geotechnical enabling works, land gas is to be monitored weekly for a period of three months.

Each monitoring visit is to consist of on-site measurement of carbon dioxide, carbon monoxide, methane, oxygen, hydrogen sulphide, atmospheric pressure and gas flow as a minimum. These results will provide information on the changing gas regime such that any impact the works have on the gas regime can be assessed and also provide data for the validation report.

Decommissioning of redundant boreholes

Any boreholes remaining on site that are not to be employed as monitoring wells shall be decommissioned. This can be done by grouting, or similar means, in order to remove the vertical conduit to permeability and land-gas flow that they represent. WYGE will compile a separate list of all the previous monitoring wells to be decommissioned. The Contractor's Method Statement for this element is to be agreed with WYGE prior to implementation.

Validation

All elements of the remediation works are to be monitored by WYGE. This monitoring will culminate in the production of a Validation Report for the works. All information shall be provided to the Engineer within three weeks of completion of the works for this purpose.

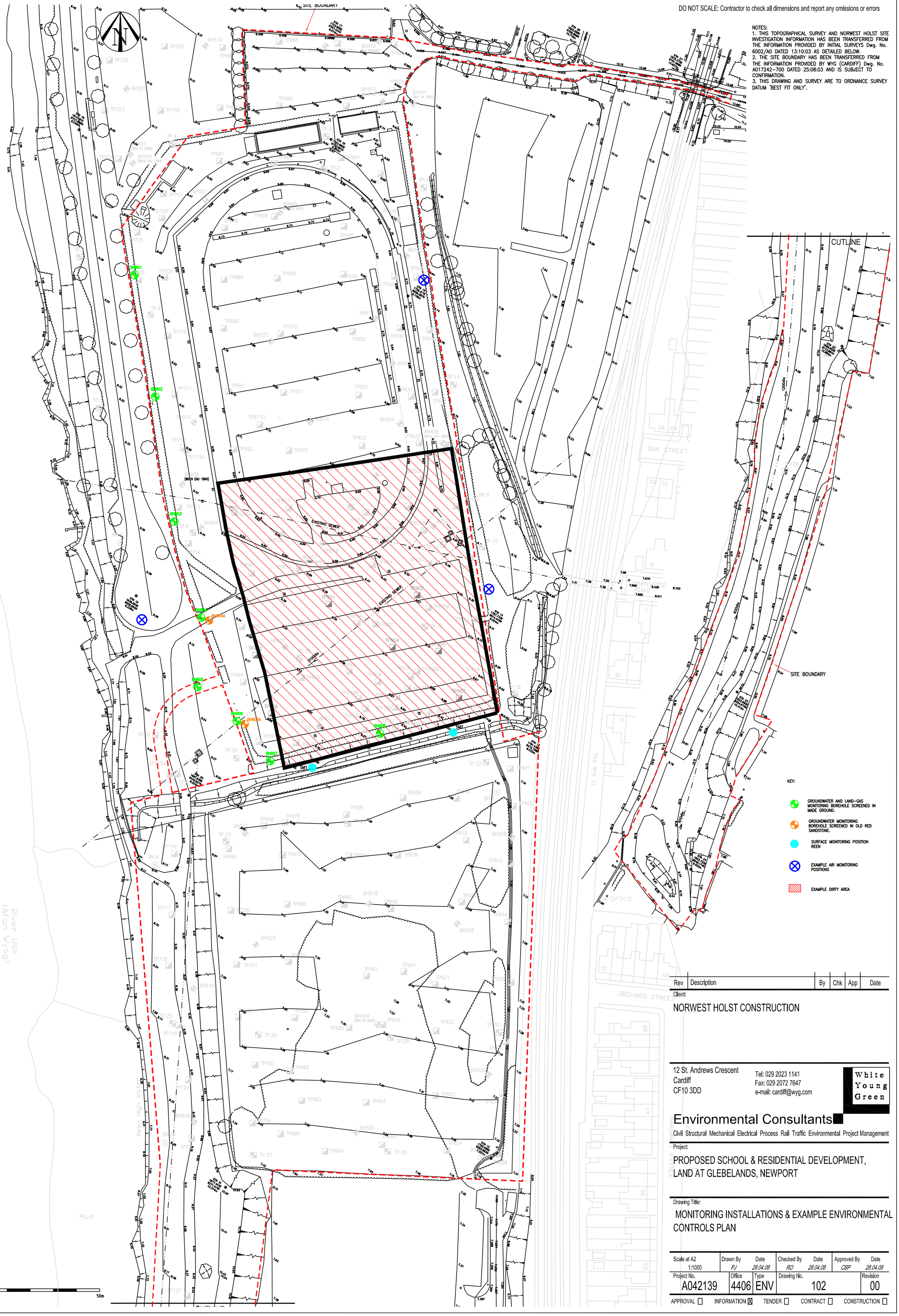
Table 1 – Groundwater sampling suite

Determinand
pH
Total phenols
Acenaphthene
Acenaphthalene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(g,h,i)perylene
Chrysene
Di-benzo(a,h)anthracene
Indeno(1,2,3-cd)pyrene
Fluoranthene
Fluorene
Naphthalene
Phenathrene
Pyrene
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel
Selenium
Benzene
Toluene
Ethylbenzene
Xylene
TPH (total)*
PCBs (total)**

* Testing to be expanded to speciated aliphatic/ aromatic hydrocarbons if detections occur.
** Testing to be expanded to speciated PCBs (7 congeners) if detections occur.

DO NOT SCALE: Contractor to check all dimensions and report any omissions or errors

NOTES:
1. THIS TOPOGRAPHICAL SURVEY AND NORWEST HOLST SITE INVESTIGATION INFORMATION HAS BEEN TRANSFERRED FROM THE INFORMATION PROVIDED BY INITIAL SURVEYS Dwg. No. 6002/A0 DATED 13:10:03 AS DETAILED BELOW.
2. THE SITE BOUNDARY HAS BEEN TRANSFERRED FROM THE INFORMATION PROVIDED BY WYG (CARDIFF) Dwg. No. A017242–700 DATED 25:08:03 AND IS SUBJECT TO CONFIRMATION.
3. THIS DRAWING AND SURVEY ARE TO ORDNANCE SURVEY DATUM 'BEST FIT ONLY'.



KEY:

- GROUNDWATER AND LAND–GAS MONITORING BOREHOLE SCREENED IN MADE GROUND.
- GROUNDWATER MONITORING BOREHOLE SCREENED IN OLD RED SANDSTONE.
- SURFACE MONITORING POSITION REEN
- EXAMPLE AIR MONITORING POSITIONS
- EXAMPLE DIRTY AREA

Rev	Description	By	Chk	App	Date

Client:
NORWEST HOLST CONSTRUCTION

12 St. Andrews Crescent
Cardiff
CF10 3DD

Tel: 029 2023 1141
Fax: 029 2072 7647
e-mail: cardiff@wyg.com

White Young Green
Environmental Consultants
Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

Project:
PROPOSED SCHOOL & RESIDENTIAL DEVELOPMENT, LAND AT GLEBELANDS, NEWPORT

Drawing Title:
MONITORING INSTALLATIONS & EXAMPLE ENVIRONMENTAL CONTROLS PLAN

Scale at A2	Drawn By	Date	Checked By	Date	Approved By	Date
1:1000	PJ	28.04.08	RD	28.04.08	CBP	28.04.08

Project No.	Office	Type	Drawing No.	Revision
A042139	4406	ENV	102	00

APPROVAL ☐ INFORMATION ☒ TENDER ☐ CONTRACT ☐ CONSTRUCTION ☐

Appendix E WYG Site Visit Reports

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD, NEWPORT
VALIDATION WORKS

SITE VISIT RECORD 1

Date:	Tuesday 17th June 2008	**General comments:** • Site induction and walkover with NHL • Cable percussive boring for BH601 & BH602. • Baseline air monitoring.
Duration of visit:	0800 – 1600	
Weather:	Clear / Sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Site induction and site walkover.	Full site induction for WYGE, NHSED and JD Drilling by Norwest Holst Limited (NHL). Site walkover lead by NHL to discuss location of boreholes and monitoring locations for air monitoring and surface water monitoring points. Some locations moved from those indicated on original plan to improve access and coverage of the site.	WYGE are satisfied the new locations provide adequate coverage of the site boundaries.
Cable Percussive Drilling of Borehole BH601. (JD Drilling)	Location marked out by NHL and cleared for services using CAT. Permit to work issued to NHSED coving all borehole locations across the site. Hand dug pit excavated to 1.2 m. No services identified. Borehole installed to base of made ground (2.2 m), perched groundwater from 2.0 m.	WYGE are satisfied operations were carried out following procedures outlined in method statement.
Baseline air monitoring.	Baseline air / asbestos monitoring undertaken by Mainstream at three marked locations across the site.	Baseline data taken prior to start of excavations on site.
Cable Percussive Drilling of Borehole BH602. (JD Drilling)	Location marked out by NHL and cleared for services using CAT, hand dug pit to 1.2 m – no services identified. Borehole installed to base of made ground (2.8 m)	WYGE are satisfied operations were carried out following procedures outlined in method statement.
Works to reen	Newport City Council (NCC) workers on site clearing reen to aid drainage. Works were instructed and undertaken by NCC by operatives were inducted by NHL to carry out works in site.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 2

Date:	Wednesday 17th June 2008	**General comments:** – Boreholes BH603 and BH604 installed. – Fencing erected around half of area due for excavation of PCB contaminated waste.
Duration of visit:	0800 – 1600	
Weather:	Wet / Heavy Showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Cable Percussive Drilling of Borehole BH603. (JD Drilling)	Location marked and cleared for serviced by NHL. Hand dug pit to 1.2 m – no services identified. Borehole drilled to 3.4 m (base of made ground at 2.4 m). 1m sump installed into alluvium of plain pipe and bentonite surround to aid collection of water samples.	WYGE are satisfied operations were carried out following procedures outlined in method statement.
Cable Percussive Drilling of Borehole BH604. (JD Drilling)	Location marked and cleared for serviced by NHL. Hand dug pit encountered concrete obstruction. Location of borehole moved approx 2 m east of original location and re-scanned for services. Borehole drilled to 3.3 m (base of made ground at 2.3 m). 1m sump installed into alluvium of plain pipe and bentonite surround to aid collection of water samples.	WYGE are satisfied operations were carried out following procedures outlined in method statement.
Erection of fence line around dirty area.	Landclean on site to erect fence line around area for excavation of PCB contaminated waste. Heras type fencing.	To be completed prior to works commencing.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 3

Date:	Thursday 19th June 2008	**General comments:** • Drilling of boreholes BH605, BH606 and BH607 (cable percussive) • Rotary drilling of BH606a
Duration of visit:	0810 – 1430	
Weather:	Dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Cable Percussive Drilling of Borehole BH605. (JD Drilling)	Location marked and cleared for serviced by NHL. Hand dug pit to 1.2 m – no services identified. Borehole drilled to 3.5 m (base of made ground at 2.4 m). 1.1 m sump installed into alluvium of plain pipe and bentonite surround to aid collection of water samples. No water identified during drilling.	WYGE are satisfied operations were carried out following procedures outlined in method statement.
Cable Percussive Drilling of Borehole BH606. (JD Drilling)	Location marked and cleared for serviced by NHL. Hand dug pit to 1.2 m – no services identified. Borehole drilled to 2.6 m (base of made ground at 1.6 m). 1 m sump installed into alluvium of plain pipe and bentonite surround to aid collection of water samples.	WYGE are satisfied operations were carried out following procedures outlined in method statement.
Cable Percussive Drilling of Borehole BH607. (JD Drilling)	Location marked and cleared for serviced by NHL. Hand dug pit to 1.2 m – no services identified. Borehole drilled 1 m into alluvium with 1 m sump installed into alluvium of plain pipe and bentonite surround to aid collection of water samples.	WYGE are satisfied operations were carried out following procedures outlined in method statement.
Rotary Drilling of BH604a (Tor Drilling)	Drillers inducted by NHL. Location cleared for services by NHL and hand dug pit dug to 1.2 m. Open hole to 11.8 m. Insufficient casing to progress through alluvium. Drilling halted until casing is provided.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 4

Date:	Friday 20th June 2008	**General comments:** – Completion of drilling boreholes and groundwater monitoring installations. – Baseline gas readings obtained. – Breakout highlighted to NHL as a potential result of NCC works to clear reen.
Duration of visit:	0800 - 1740	
Weather:	Dry / sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Cable Percussive Drilling of Borehole BH608. (JD Drilling)	Location cleared of served by NHL and hand dug pit to 1.2 m. No services identified. Drilled to 2.4m, with 1 m sump installed into alluvium. Flush covers installed in all locations.	WYGE are satisfied operations were carried out following procedures outlined in method statement.
Rotary Drilling of BH604a (Tor Drilling)	Location re-drilled with casing through alluvium. Base of alluvium identified at 11.8 m, drilled and installed to 13.8m. 2 m response zone in sandstone.	WYGE are satisfied operations were carried out following procedures outlined in method statement.
Rotary Drilling of BH606a (Tor Drilling)	Location cleared for services by NHL. Hand dug pit to 1.2 m, no services encountered. Drilled to 12.9m (3m response zone). Flush covers installed in both locations.	WYGE are satisfied operations were carried out following procedures outlined in method statement.
Discussion regarding observed breakout in reen.		WYGE suggest soil and surface water samples are obtained and analysed to provide information on nature of breakout. EA and NCC to be informed of occurrence.
Baseline landgas monitoring	Landgas monitoring of all borehole locations undertaken by NHSED. Deeper boreholes flushed of drilling fluid prior to monitoring (due 23rd June)	WYGE are satisfied operations were carried out following procedures outlined in method statement.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 5

Date:	Monday 23rd June 2008	**General comments:** - Baseline groundwater samples obtained - Baseline surface water samples obtained including additional 1 No. sample
Duration of visit:	0830 – 1900	
Weather:	Dry / sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Landclean present on site	Heras fencing surrounding 'red zone' completed and Solus decontamination unit provided by Enviroguard delivered to site and installed. 360 degree excavator segregated on site within fence line for excavation. General walkover to discuss works with Landclean, WYGE and Bill Baker.	Preparation of site prior to excavation following procedures outlined in method statement.
Baseline groundwater samples	All monitoring locations purged five well volumes based on current groundwater levels (where 5 well volumes are not capable boreholes are purged to dry). Water is collected in secure 5 gallon containers and disposed of into dirty water bowser stored on site. Field parameters observed a three intervals until results have stabilised. Two 1 litre samples obtained in glass jars and labelled. Samples are stored in cool boxes with ice blocks before collection by courier.	WYGE are satisfied that the procedures undertaken are in accordance with groundwater collection specification.
Baseline surface water samples.	Two 1 litre samples obtained from two monitoring locations along reen running across the site. Locations marked out by NHL and identified by marker peg.	WYGE are satisfied that procedures conform to surface water monitoring specification.
Additional monitoring of surface water body (reen)	One additional surface water sample (2 x 1 litre glass bottles) and one soil sample from banks of reen obtained at the point of leachate breakout by NHSED. EA present on site to observe nature of breakout and to collect surface water and soil samples from reen.	Additional samples carried out to assess the nature of the leachate breakout. Works are in addition to methodology outline by WYGE specification.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 6

Date:	Tuesday 24th June 2008	**General comments:** - Excavation of TP912, - First round of air monitoring during PCB removal - Excavation of TP634 / TP902
Duration of visit:	0800 - 1700	
Weather:	Dry / sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP912	Excavation approximately 5 m by 5 m with all excavated soil placed on plastic to prevent contamination to underlying soils. Small drum (40 cm by 25 cm) with red brown tar like substance and cohesive white residue. Drum found in southern extent of excavation at 2.1 m. Drum and surrounding 1 m^3 excavated and placed in tonne bags for disposal. Remaining material excavated and stockpiled separately to other stockpiles. Final excavation depth 2.4 m. Validation samples obtained from faces A – E and from two stock piles (material above drum and material surrounding and below drum). Samples consist of one amber jar of material obtained as a representative sample of face or stockpile. Two 1 litre samples obtained from groundwater in base of excavation. Excavation left open awaiting test results.	WYGE are satisfied that the excavation of material and validation testing was carried out according to procedure outlined in method statement.
Air monitoring	First round of air / asbestos monitoring undertaken in three monitoring locations across the site since the start of the excavations.	Weekly air monitoring as outlined in method statement.
Re-sampling of groundwater and surface water locations.	Due to breakages during transit, boreholes BH601, BH602, BH604, BH606a and surface water monitoring location SM1 re-sampled. Boreholes purged and collected as outlined in sampling specification.	Although samples should represent pre-works levels WYGE are satisfied the samples were taken sufficiently early to still be representative of pre works conditions.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 6

Current activities on site	Details	WYGE comment
Excavation of TP634 / TP902	Due to close proximity of trial pits, one 'L' shaped excavation is outlined to include both locations. TP634 excavated initially, ground level has been raised by 0.4m by topsoil on northern half of excavation. Turf layer identified below. Quantities of corrugated metal sheeting from 1.5 m and galvanised water tank at 1.4 m (empty). 5 gallon drum identified in southern extent of excavation. Drum and surrounding material bagged for removal off site and other material 3 m^3 placed on separate stockpile. Excavation extended southwards into TP902.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 7

Date:	Wednesday 25th June 2008	**General comments:**
Duration of visit:	0815 - 1500	- Further excavation of TP634 / TP902
Weather:	Overcast / showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Continuation of excavation of TP634 / TP902	Large drum (45 gallon) with red brown grease with second drum below at 1.8 m. Multiple drums located in western extent of TP902, majority of drums contain red brown grease with low viscosity. Ten drums excavated so far and bagged for removal from site with surrounding material. Adjacent material placed in separate stockpile for validation.	On going activity.
General site house keeping	General works on site to relocate bags and re-distribute weigh where necessary. No further excavations on site.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 8

Date:	Thursday 26th June 2008	**General comments:** - Further excavation of material from TP902 and TP911. - First round of groundwater monitoring collected from monitoring wells.
Duration of visit:	0730 – 1715	
Weather:	Cloudy / mostly dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Continuation of TP902	Two further drums removed from TP902 and placed in bags for disposal off site as well as surrounding material. Further works stopped due to lack of bulk bags.	On going activity.
Groundwater monitoring	First round of groundwater monitoring after start of excavations. Each borehole monitoring location purged for five well volumes or to dry. Purged water collected and stored in dirty water bowser on site. Two 1 litre glass bottles collected from each borehole with the exception of BH605, BH606 and BH607 where there are insufficient samples for collection.	WYGE are satisfied that groundwater samples collection was undertaken following procedures outlined in the monitoring specification.
Fibrous asbestos identification	Due to the potential identification of fibrous asbestos in material excavated from TP902, works are halted at this location until identification (samples collected for identification). Appropriate RPE issued to all personnel working in excavation area.	WYGE consider no further works should be carried out in current excavation until identification of material has been made and operational procedures put in place.
Excavation of TP911.	Topsoil removed and place to one side with vegetation cover. Material excavated and deposited onto plastic. Arisings are predominantly rubble and reinforced brickwork. Excavated to a depth of 1.4m (as previous excavation in this location) with no sign of any drums or PCB contaminated waste. Very little material for validation purposes. Basal (Face E) sample only obtained.	WYGE are satisfied that ground conditions such that excavation can be backfilled prior to validation of samples and without a full suite of validation samples.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 9

Date:	Friday 27th June 2008	**General comments:** Excavation of material from TP914 and preparation for material to be removed from site.
Duration of visit:	0750 - 1400	
Weather:	Overcast / occasional showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP914	Hardstanding over black sandy gravely clay. Electrical cable with warning tape identified running north to south in the eastern edge of the excavation. Five drums removed from southern extent (further drums identified but not removed at this point). Drummed material and surrounding soil excavated and placed in tonne bags for disposal off site.	On going activity.
Preparation of excavated material for loading onto lorry (due Monday 30th)	Bags are weighed and material redistributed to produce bags with no more than 350 kg in each bag.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 10

Date:	Monday 30th June 2008	**General comments:** First lorry load of material removed from site for disposal. Further excavation of material from TP914.
Duration of visit:	0750 – 1710	
Weather:	Overcast / mostly dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Loading and removal of bagged waste by haulier.	37 bags stacked on pallets (layered two high where possible) material secured by tarpaulin before leaving site. Bags lifted into position using excavator using chains linked to handles on bags. Waste transfer records signed off by NHL.	
Excavation of TP914	Continuation of excavation of material. Stockpile relocated by excavator to allow extension of excavation southwards. A further 17 drums excavated and placed in bags with surrounding material. Drums are typically in poor condition and most containing red brown grease.	On going activity

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 11

Date:	Tuesday 1st July 2008	**General comments:** • Excavation of material from TP655a and collection of validation samples. • Excavation of material from TP635a.
Duration of visit:	0800 – 1700	
Weather:	Clear / sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP914	Free product on surface of perched water. Oil absorbent pads placed in excavation to remove product before further excavation.	WYGE consider the need to control free product as very important to limit the degree of cross contamination and transportation of contamination via the perched water body.
Backfilling TP911	Due to lack of samples obtained from excavation and as discuss in meeting on 27th June 2008, trial pit is backfilled to ground level using arisings.	WYGE agree backfilling can go ahead due to the lack of potentially contaminated material.
Excavation of TP655a	3 m by 3 m excavation opened. One fragmented drum in north west corner of excavation (0.9 m to 1.2 m) containing black / dark brown brittle bitumen type material. Second drum also excavated containing mixture of red brown grease and bitumen type material. Drums and surrounding material excavated and placed in bags. With remaining material stock piled separately. Four faces of excavation and base sampled and two 1 litre water samples obtained from perched water. Excavation left open awaiting results.	WYGE satisfied there is no evidence of further drums in excavation. Validation samples obtained according to methodology.
Excavation of TP635a	3m by 3m excavation marked and excavated. Two drums removed with red brown grease like substance inside. Further excavation required.	Ongoing activity

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 12

Date:	Wednesday 2nd July 2008	**General comments:** - Further excavation of material from TP635a, - Additional surface water samples obtained from two original monitoring positions as well as four additional locations.
Duration of visit:	0800 - 1730	
Weather:	Overcast	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP635a	Continuation of excavation. Three further drums removed and surrounding material excavated and placed in tonne bags for removal from site.	On going activity.
Weighing of bagged material	Previously bagged material is weighed to ensure weight limit below 350 kg limit. Material redistributed where needed. Bagged stockpiled near to loading point for lorry.	Works required to prepare for lorry collection due Friday 4th.
Surface water monitoring	Surface water samples SM1, SM2 and SM3 retaken to confirm results obtained previously. Additional samples SM4, SM5, SM6 from eastern boundary of site also taken to confirm conditions of the reen at all point across the site. Sheen on breakout still observed and also identified in northern most area of site.	Additional samples obtained outside the basic requirement of the monitoring specification.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 13

Date:	Thursday 3rd July 2008	**General comments:** - Weekly groundwater monitoring undertaken on site.
Duration of visit:	0800 - 1630	
Weather:	Cloudy, occ showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Groundwater monitoring	Second round of groundwater sampling after start of excavation of PCB contaminated material. All boreholes purged for five well volumes or to dry prior to sampling. Records of field parameters also recorded. Purged water stored securely on site and samples collected in two 1 litre glass bottles. Samples obtained from all wells with the exception of BH605 and BH606 where there was insufficient groundwater to sample and BH607 where only 1 litre samples was obtained. Samples were packed in cool boxes before dispatch to laboratory via courier.	WYGE are satisfied that samples were obtained following procedures outlined in the methodology.
General house keeping	Moving stockpile on site to allow geophysical survey of northern section of site. Stockpiles kept intact and labelled in the new location to ensure chain of custody of material.	WYGE are satisfied that the process was carried out following the outlined methodology.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 14

Date:	Friday 4th July	**General comments:** - Second lorry load of material removed from site - Geophysical survey undertaken in northern section of the site.
Duration of visit:	0750 - 1700	
Weather:	Sunny hot	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Removal of material from site for disposal	Second lorry load of material removed from site with a total of 43 bags of material. Bulk bags placed in plastic liner bags where product was identified as having leached through the material of the bag.	
Geophysical survey of northern sections	Geophysical survey undertaken by Terradat in the northern part of the site to identify potential areas which require further investigation. 2 m grid set out on site and survey undertaken using a hand towed magnetometer.	
Excavation of TP914	Continued excavation of TP914. One additional drum identified and removed along with surrounding soil, but due to the identification of solvent vapours within the soil matrix works were halted until breathing apparatus is soursed. PID readings indicated a maximum level of 103ppm.	Ongoing activity.
Validation of TP912	Results indicate that samples obtained from faces of the excavation in TP912 are all below the site specific RTVs in terms of PCBs. All associated stockpiles are also shown to have levels of PCB below the RTV for the site. The excavation is backfilled with arisings to include the area for inclusion in the geophysical survey.	WYGE are satisfied that all laboratory results are below the site specific RTVs.
Excavation of TP635a	Excavation extended to the east and west by removing surface material and stockpiling on site.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 15

Date:	Monday 7th July 2008	**General comments:**
Duration of visit:	0750 - 1530	
Weather:	Sunshine and showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP635a	Additional 14 drums removed along with surrounding material. Many fragmented and containing red brown grease like substance. Layer of slate waste immediately above alluvium also shown to be cross-contaminated with red brown grease and as such is removed and bagged for disposal.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 16

Date:	Tuesday 8th July 2008	**General comments:** - Continued excavation of TP635a. - Movement of fence line in red zone to reflect area cleared by geophysical survey.
Duration of visit:	0745 – 16.30	
Weather:	Sunshine and occ. showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP635a	Additional 7 drums removed from the excavation along with surrounding soils. Further drums identified for future removal.	Ongoing activity.
Results of geophysical survey.	Geophysical survey indicates no new anomalies which require investigation. Fence line moved to allow construction works to continue in this cleared area.	WYGE are satisfied that the results indicate no further need for excavation in this cleared area.
Asbestos air monitoring.	Regular weekly air monitoring on site in three locations. In addition to this personal monitoring of LandClean personnel. No asbestos identified.	Weekly monitoring as outlined by monitoring specification.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 17

Date:	Wednesday 9th July 2008	**General comments:**
Duration of visit:	0745 – 1045	Works limited by weather conditions. Time used to weigh bags and redistribute material.
Weather:	Heavy rain	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
	Due to heavy rainfall no excavations are possible so time is spent redistributing material to prepare for bags being removed from site.	
Removal of asbestos	Asbestos material identified in bagged waste removed by LandClean under the instruction of NHL. Method statement for dealing with further asbestos is issued.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 18

Date:	Thursday 10th July 2008	**General comments:** - excavation and revalidation of TP655a after failures of faces A and D - Excavation of TP635a - Weekly groundwater monitoring.
Duration of visit:	0745 – 1700	
Weather:	Sunshine and showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Further excavation of TP655a	Due to failures of face A and D of TP655a validation results the excavation was extended by approximately one bucket width of the excavator. One additional drum removed from Face D, this material bagged for removal from site. New validation samples obtained for Faces A and D after excavation. Stockpiles S01 and S02 also failed and will be split and retested to identify extent of the contamination.	Extension of excavation was carried out to obtain further validation samples. WYG are satisfied further excavation was carried out in accordance with the methodology.
Groundwater monitoring	All boreholes purged to dry or for five well volumes. Two litre samples obtained for all except BH605 (1 litre only) and BH606 (insufficient recharge to allow sampling.	WYG are satisfied that groundwater samples were obtained in accordance with the methodology.
Excavation of TP635a	Excavation extended northwards. Approximately 23 additional drums removed. Many fragmented. Many containing black viscous material and black brittle bituminous material. Drums and surrounding material excavated and bagged for disposal. Further drums still require removal.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 19

Date:	Friday 11th July 2008	**General comments:** - Excavation of TP635a - Sampling of stockpiled material on site.
Duration of visit:	0750 – 1530	
Weather:	Wet, heavy showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Further excavation of TP635a	Four further drums removed and bagged with surrounding material. Works stopped to allow movement of bags and fenceline.	On going activity.
Validation sampling of stockpiles.	In order to speed up progress on site and allow clearance of areas and to free up space NHL instructed testing of individual stockpiles. Each stockpile on site was tested and representative validation samples obtained. Each stocklpile is labelled prior to testing.	WYG consider this to be in addition to the testing required in the specification but agree the need to ensure effective progress on site. Additional material excavated on site will need to be stockpiled separately and tested separately.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 20

Date:	Monday 14th July 2008	**General comments:**
Duration of visit:	0800 – 1330	Day spent weighing and moving bags on site.
Weather:	Overcast	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
	Bagged waste on site weighed and reloaded where needed and moved to a general storage area prior to removal from site.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 21

Date:	Wednesday 16th July 2008	**General comments:**
Duration of visit:	0745 – 1630	
Weather:	Clear and sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Activities for Tuesday 15th	SL not on site on the 15th July. Works solely to move and re-distribute material to comply with weight limits. Water storage tank (28m^3) delivered to site and installed to allow pumping.	
Excavation of TP635a	Extension of excavation northwards to join TP902 / TP634. Materail from ground level to top of drums removed and stockpiled on site. Approximately 15 drums removed. Works stopped to move bags on site.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 22

Date:	Thursday 17th July 2008	**General comments:** - Further excavation of large excavation on site - Weekly groundwater monitoring.
Duration of visit:	0750 – 1700	
Weather:	Cloudy	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP635a / TP902 / TP634	Area bridging TP635a / TP902 continued to the excavated. Multiple drums, typically with red brown grease (21 drums removed). Drums and surrounding material excavated and placed in bags and stored on site. Perched water pumped to on site storage tank.	On going activity.
Ground water monitoring	All locations purged 5 well volumes or to dry. Purged water transferred to secure containers before being disposed of to dirty water bowser. Two litre samples obtained from all locations with the exception of BH606 (purged to dry with no recharge). Samples labelled and packaged for dispatch to courier.	WYG are satisfied that groundwater samples were obtained following procedures outlined in the monitoring specification.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 23

Date:	Friday 18th July 2008	**General comments:**
Duration of visit:	0740 – 1710	Further excavation of material from TP914.
Weather:	Cloudy	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP914	Perched water pumped from the excavation to onsite storage facility. Continual pumping is required to ensure the hole remains dry. Material from the base of the excavation is cleared and stockpiled in new stockpiles. More drums are identified in the southern and eastern extent of the excavation. Excavation halted due to the lack of storage space for the water pumped from the excavations (tank full).	On going activity. Unable to continue until perched water is removed from the base of the excavation.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 24

Date:	Monday 21st July 2008	**General comments:** Excavation of TP908 and TP616.
Duration of visit:	0740 – 1700	
Weather:	Sunny, hot.	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
	Works now progressing on site with two 360° excavators and four workmen to enable more efficient handling of material.	This should now allow continual excavation on site.
Excavation of TP908	Due to the lack of water storage capacity for removing water from other excavations, new excavations are started (TP908). Material from ground level to the depth of the drums is removed and stockpiled on site on plastic. One metal water tank identified with no sign of drums or PCB product in excavations. Limited perched water and waste identified as being predominantly domestic in origin. Validation samples obtained from Faces A – D and base (Face E) and samples also from stockpiled material.	WYG not satisfied area excavated was as described previously. But considering excavations are scheduled north and south of the current location will review the need to excavate further once surrounding areas are complete.
Excavation of TP616	Area marked out and scanned with a CAT. Surface material excavated and stockpiled. 17 drums removed and placed in bags with surrounding material. Wooden railway sleepers identified in base of excavation.	On going excavation.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 25

Date:	Tuesday 22nd July 2008	**General comments:**
Duration of visit:	0745 – 1630	Continued excavation of TP616.
Weather:	Clearing to hot / sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP616	Continuation of excavation. 18 drums removed and place into bags as well as surrounding material. Excavation extended to join the southwest corner of TP908. More drums are identified to be removed.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 26

Date:	Wednesday 23rd July	**General comments:**
Duration of visit:	0740 – 1730	Continuation of TP616.
Weather:	Cloudy, clearing later	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Continuation of TP616	A further 28 drums removed from the excavation with surrounding material and bagged.	Ongoing activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 27

Date:	Thursday 24th July	**General comments:**
Duration of visit:	0735 – 1700	Weekly groundwater monitoring Continuation of TP616
Weather:	Sunny, hot	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Continuation of TP616	A further 10 drums removed from the excavation (area adjoining TP908 and TP616). Excavation extended westwards with surface material stockpiled separately on site for testing.	On going activity
Groundwater monitoring	Groundwater monitoring undertaken in all locations following the methodology set out in the specification document. Purged water stored in a secure bowser on site prior to disposal. Five well volumes purged (or to dry) and filed parameters monitored. Two litre samples obtained from all locations with the exception of BH601, BH602 (disturbance in general area – no sample) BH604 (1.5 litres only) BH605, BH606, BH607 (insufficient recharge to sample).	WYG satisfied that samples were obtained following procedures set out in the monitoring specification.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 28

Date:	Friday 25th July 2008	**General comments:**
Duration of visit:	0745 – 1640	
Weather:	Heavy showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Validation of stockpiles on site	Sample results indicate a number of stockpiles are suitable for re use on site. Material moved to one large stockpile on site for future reuse.	WYG satisfied that stockpiles are suitable for use on site.
Validation of TP955a	Re-tests of Faces A and D show a clean excavation and is clear for back filling. Backfilled with stockpiles from TP635a S05 and TP914 S02 (previously cleared for reuse).	WYG satisfied that excavation has been validated and stockpiles are suitable fro reuse on site.
Air monitoring	Weekly air monitoring present on site (delayed from scheduled for Tuesday monitoring date).	
Classification of bags on site	Bagged material to be segregated into Red for visually contaminated material and yellow for no visual contamination but excavated from area in immediate area of drums. 'Yellow' bags to be sorted into groups of 10 and tested as a stockpile to identify suitability for disposal via landfill.	WYG satisfied with procedure with the assurance that material is shown to be suitable for final disposal.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 29

Date:	Monday 28th July	**General comments:**
Duration of visit:	0745 – 1645	Excavation of TP905.
Weather:	Hot / Sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP905	Surface material removed from a 3m by 3m excavation and stockpiled on site for testing. Western half of the excavation predominantly drums and rubble. Eastern half – no drums identified. Excavation extended up to TP908 through removing surface material to find the southern extent of the drums.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 30

Date:	Tuesday 29th July 2008	**General comments:** - Excavation of TP905 to create one large excavation (TP634 to TP616) - Sampling of stockpiles on site.
Duration of visit:	0800 – 1730	
Weather:	Overcast / showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Stockpiles sampled	Samples obtained from TP905 SO1 and TP616 SO1 for validation purposes. Samples are representative of each stockpile.	WYG satisfied sampling was undertaken following the methodology set out in the method statement.
Excavation of TP905.	Surface material from the region between TP905 and TP635a removed to create one large excavation running from TP634-TP902-TP635A-TP905-TP908-TP616. Drums are identified along the length of the excavation. Approximately 37 drums removed and bagged along with surrounding material and marked as red / yellow on excavation.	On going activity.
TP655a stockpiles resampled.	Stockpiles previously failing the RTVs are spilt and retested to identify areas possibly suitable for disposal via landfill or reuse on site. The three stockpiles are split into six smaller piles.	Individual stockpiles will be judged on the outcome of this set of data in an effort to minimise the volumes being disposed of via the incinerator.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 31

Date:	Wednesday 30th July 2008	**General comments:** - Surface water monitoring - Excavation of TP905 - Sampling from yellow material.
Duration of visit:	0750 – 1730	
Weather:	Wet, showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Surface water sampling.	SM1 and SM2 sampled. Two 1 litre samples obtained according to monitoring specification. Water samples also taken directly from TP635a, TP616, and TP914 for disposal purposes.	WYG satisfied the samples were obtained following monitoring specification.
Excavation of TP905	An additional 4 drums have been removed and material bagged.	On going activity.
Sampling of bagged material from TP635a	Bagged material classified as 'yellow' (no visual contamination) grouped in to groups of 10 bags with a representative sample obtained from each group of bags. (G01 – G05) for testing.	WYG satisfied this follows the new methodology outlined in addendum

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 32

Date:	Thursday 31st July 2008	**General comments:** Weekly groundwater monitoring Collection of 44bags by Grundons. Further excavation of TP905.
Duration of visit:	0740 – 1720	
Weather:	Overcast	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Groundwater monitoring	Five well volumes purged and field parameters recorded. Two litres obtained from each borehole with the exception of - BH604 – 1 well volume only purged (2 litre sample obtained) - BH605 – 1 litre sample (no purging) - BH606 – dry - BH607 – 2 litre sample obtained – no purging.	WYG satisfied samples were obtained using appropriate methodology.
Material removed from site (Grundons)	44 bags removed from site, loaded onto pallets (stacked two high) and secured before leaving.	
Excavation of TP905	Removal of additional 15 drums and surrounding material, generally from the area between TP905 and TP635a.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 33

Date:	Friday 1st August 2008	**General comments:**
Duration of visit:	0800 – 1700	Moving bags on site
Weather:	Overcast, showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Moving bags on site.	Moving and segregating bags on site classed as Red and Yellow to allow samples to be obtained for further assessment.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 34

Date:	Monday 4th August 2008	**General comments:**
Duration of visit:	0745 – 1730	
Weather:	Occasional showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP913	Surface material removed and stockpiled on site. Excavation extended to join TP616 (part of large excavation). Six drums removed, many in poor condition with red or black grease like material. Very rapid inflow of water with sheen on the surface.	On going activity.
'Yellow Bag' Sampling.	Bags from TP635a, TP914, TP905 and TP616 grouped in batches of 10 and representative samples obtained to identify suitability for disposal via landfill.	Activities carried out following amended methodology outlined by NHL
Validation samples	Results obtained for bags from TP914. 5 groups below RTVs, 4 suitable for landfill. Remainder classed as RED and identified as disposal via incinerator.	WYGE satisfied that material has been appropriately classified and disposed of.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 35

Date:	Tuesday 5th August 2008	**General comments:**
Duration of visit:	0800 – 1600	
Weather:	Very wet	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Yellow bag samples	TP616 bags sampled in groups of 10	WYGE satisfied with sampling procedure
Validation samples	Samples from TP905 S01 and TP616 S01 confirmed as having levels of PCBs below RTVs	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 36

Date:	Wednesday 6th August	**General comments:**
Duration of visit:	0750 – 1730	
Weather:	Overcast, clearing later	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Loading drums with material	Drums loaded from bagged material for disposal to Veolia incinerator in Ellesmere Port.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 37

Date:	Thursday 7th August 2008	**General comments:**
Duration of visit:	0750 – 1810	
Weather:	Clear	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Groundwater monitoring	Groundwater samples obtained. Purged water stored on site in a secure location. Each location purged five well volumes or to dry, with 2 litre samples obtained and field parameters recorded. With the exception of; BH604 – 1 well volume only purged. BH605 / BH606 – Dry, no samples BH607 – purged to dry in the 6th Aug and 2 litres sampled.	WYGE satisfied that the sampling was carried out following agreed methodologies.
Filling drums from bagged material.	First lorry load filled and removed from site. 80 drums removed.	WYGE satisfied the process was carried out following methodology.
Validation samples	TP908 S01, TP914 S05 and TP635a S04 all cleared to stay on site.	WYGE satisfied that material is suitable to remain on site.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 38

Date:	Friday 8th August 2008	**General comments:**
Duration of visit:	0930 – 1700	
Weather:	Clear	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Validation results	TP635a G06, G07 cleared for potential landfill disposal. TP914 G01, G02 classed as red and to be disposed of via incinerator.	WYGE marked outcome of material appropriately and are satisfied the classifications are following the updated methodology.
TP913	Surface material removed as excavations are extended westwards. Material removed to identify the extent of the drums within the ground. Material stockpiled on site.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 39

Date:	Monday 11th August 2008	**General comments:**
Duration of visit:	0745 – 1635	
Weather:	Clear occasional showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Filling drums with soil	Lorry due for collection 22 pallets (88 drums) filled with soil for disposal via incinerator.	WYGE satisfied activities comply with methodology.
Validation results received	TP913 S01, S02 classed as clean and suitable for reuse on site. TP655a S01a, S02a, S02b, S04b all failed and require disposal via incinerator. S02c and S04a possibly suitable for disposal to landfill. TP913 S02, S03 classed as clean, TP653a S02 – failed and requires disposal via incinerator.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 40

Date:	Tuesday 12th August	**General comments:**
Duration of visit:	0800 – 1600	
Weather:	Sunshine and showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Loading drums with soil	All drums on site are loaded with material for removal on Wednesday.	
Air monitoring	Weekly air monitoring. Three previously marked out locations monitored.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 41

Date:	Wednesday 13th August 2008	**General comments:**
Duration of visit:	0800 – 1500	
Weather:	Heavy showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Filling drums with soil	Due to heavy rain, works are limited to filling drums in preparation for the lorry leaving site at the end of the day.	WYGE satisfied that works are carried out in accordance with outlined methodology.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 42

Date:	14th August 2008	**General comments:** • Ground Water monitoring • Clearing site and filling drums with soil for removal
Duration of visit:	0815- 1710	
Weather:	Sun & Showers	
Visiting engineer:	Sian Thomas	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Filling drums on site	Due to limited space and awaiting waste water removal, works are limited on site to filling drums in preparation of lorry pickup at end of the day.	WYG satisfied works are carried out following methodology.
Ground Water Monitoring	5 wells volumes purged and field parameters recorded, waster stored in drums before disposal 2 x 1 litre samples obtained	WYG satisfied works are carried out following methodology.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 43 to 52

Date:	15th August - 1st September	**General comments:**
Duration of visit:	10 days	Continued loading of material into drums from removal of material from site.
Weather:	Predominantly dry	
Visiting engineer:	Sian Thomas	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Land Clean	

Current activities on site	**Details**	**WYGE comment**
Bunded skip constructed.	Open skip brought to site and placed in a bunded area underlain by heavy duty plastic to ensure all material is contained.	Skip now to be used to empty bagged material and allow excavated drums to be compacted and placed in new drums for removal from site.
Filling drums with excavated material.	Drums continued to be filled from material in bags.	On going process.
Excavation of TP913	Ongoing excavation of TP913, removal of additional 4 drums and surrounding contaminated material.	On going process.
Excavation of TP914	Further excavation of material and drums from TP914. Additional 28 drums removed from excavation and placed in skip for crushing and loading into drums.	Ongoing process.
Excavation of TP635a	Further 20 drums removed from excavation and placed in skip for removal.	Ongoing process.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 53

Date:	Tuesday 2nd September 2008	**General comments:**
Duration of visit:	0800 – 1715	
Weather:	Sunshine / showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Site handover	General site handover between ST and SL and update on progress in previous two week period.	
Sampling	Samples taken from TP914 S05 and TP913 G01 to G04 (potentially clean material). WAC tests also carried out on material potentially suitable for disposal to landfill. Samples taken from stock piles and also bagged material previously classified as yellow.	
Filling drums	Bags emptied into large skip and drums separated from soil. Drums are crushed and placed inside new drums.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 54

Date:	Wednesday 3rd September	**General comments:**
Duration of visit:	0825 – 1340	
Weather:	Heavy rain	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
	Due to heavy rain, works on site are limited to filling drums from the remaining bags present on site and general site maintenance.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 55

Date:	Thursday 4th September 2008	**General comments:**
Duration of visit:	0810 – 1700	Groundwater monitoring
Weather:	Heavy showers	Site works limited due to heavy rain on site.
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
	Site works limited to filling drums from remaining bags stored on site.	
Groundwater sampling	Five well volumes purged from each location and 2 litre samples obtained for analysis. With the exception of BH05 – 4 well volumes only purged to dry (no sample) and BH607 no sample due to blockage in standpipe.	WYGE satisfied that the processes were carried out following agreed methodologies.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 56

Date:	Friday 5th September 2008	**General comments:**
Duration of visit:	0815 – 1530	Works on site halted due to heavy rain
Weather:	Heavy rain	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
	Due to heavy rainfall all day works are postponed. Only a limited number of drums are filled.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 57

Date:	Monday 8th September 2008	**General comments:**
Duration of visit:	0800 - 1730	General site works limited to clearing material previously stockpiled in bags.
Weather:	Cloudy / dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Material taken off site by Veolia	80 drums dispatched to Veolia site in Ellesmere Port. (Load V9)	
Filling drums with material.	General site activities limited to filling drums with stockpiled material from bags.	
Sampling of crushed stone.	Areas where crushed stone was laid down in soft landscaping areas. Samples taken by NHSED (CS06 to CS10)	WYGE encourage the sampling of areas in soft landscaping.
Excavation of TP910	Surface material excavated to the level of the top of the drums and stockpiled for sampling. Excavation now joined to the rest of the large excavation via TP914.	
Validation results	Results obtained for TP914 S05 and TP913 G01. both results indicate PCB levels are below site specific RTVs and material is suitable for reuse on site. Material added to the clean stockpile.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 58

Date:	Tuesday 9th September 2008	**General comments:**
Duration of visit:	0800 – 1720	
Weather:	Rain, clearing later	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Filling drums	Continuation of filling drums with material stockpiled in bags on site.	
Air monitoring	Weekly air monitoring carried out by Manestream at three locations on site.	WYGE are satisfied that the monitoring was undertaken as required by the monitoring specification.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 59

Date:	Wednesday 10th September 2008	**General comments:**
Duration of visit:	0800 – 1330	
Weather:	Sunshine	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Removal of material from site	Load V10 removed from site by Veolia.	
Excavation of TP910	Further removal of surface material from the area between TP910 to TP914 and excavation also extended southwards.	On going activity.
Groundwater monitoring	Weekly groundwater monitoring, five well volumes purged and 2 litre samples obtained with field parameters recorded at all locations with the exception of BH605 (only 1 well volume purged to dry – no recharge)	WYGE satisfied that monitoring was carried out following specified methodologies.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 60

Date:	Thursday 11th September 2008	**General comments:**
Duration of visit:	0900 – 1720	
Weather:	Sunshine and showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Validation samples	Validation samples taken from TP910 S01 and S02 (material derived from the surface of TP910).	WYGE are satisfied that the samples were taken following procedures outlined in the sampling specification.
Load V11 removed from site	80 drums removed from site by Veolia labelled as load V11.	WYGE satisfied material left site following outlined methodologies.
Excavation of material from between TP902 and TP914	Removal of drums from material above the waterline. 23 drums removed.	On going activity
	Water treatment system delivered to the site and off loaded. To be erected on Friday.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 61

Date:	Friday 12th September 2008	**General comments:**
Duration of visit:	0800 – 1700	
Weather:	Clear and sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Water treatment system	Water treatment system set up by LandClean on site. Initial reading on water discharge meter 1549m^3 (daily allowance of 30m^3 discharge). Water stored on site used to charge system and act as initial flush of water.	
Excavation of TP910	Removal of drums above the water line from TP910. 23 drums removed for compaction of drums in on site skip and loading for removal from site.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 62

Date:	Monday 15th September 2008	**General comments:**
Duration of visit:	0800 – 1700	
Weather:	Clear, dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Water treatment system	Completion of charging system and discharging of stored water once treated.	
Load V12 removed from site	80 drums removed from site by Veolia for incineration labelled as V12.	WYGE are satisfied material left site following methodology outline in method statement.
Excavation of TP910	Removal of a further 15 drums from TP910, the majority with red brown grease resulting in large quantities being discharged into the excavation and resting in the surface of the water.	On going activity.
Dewatering of TP913	Water pumped to onsite storage tank for settlement over night and treatment and discharge on Tuesday.	Not fully dewatered but levels are noticeably lower.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 63

Date:	Tuesday 16th September 2008	**General comments:**
Duration of visit:	0810 - 1735	
Weather:	Clear and warm	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Load V13 removed from site	80 drums removed from site by Veolia, labelled as V13.	WYGE satisfied material left site following methodology outline in the method statements.
Air monitoring	Weekly air monitoring undertaken by Manestream as part of monitoring requirements.	WYGE satisfied air monitoring was undertaken in accordance with monitoring specification.
Excavation of TP910	Removal of additional 19 drums from TP910 for crushing and loading into drums.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 64

Date:	Wednesday 17th September 2008	**General comments:**
Duration of visit:	0810 – 1730	
Weather:	Overcast	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Site walkover with NHL, LandClean and WYGE	Discussions over future progress on site between NHL, LandClean and WYGE. Aims to validate TP913 as the excavation becomes dewatered and progress along excavation. Site won clay (clean) to be used as a bund to separate clean and dirty areas.	WYGE satisfied progress is suitable to continue works efficiently.
Excavation of TP910	Further 10 drums removed from TP910 to provide material for filling drums.	On going activity.
Validation of TP913	Area fully dewatered and water passed to water treatment system. Wet material from base of excavation stored further north in excavation to allow to dry out before removing.	Excavation now ready for validation. No visual or olfactory signs of contamination in faces of excavation.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 65

Date:	Thursday 18th September 2008	**General comments:**
Duration of visit:	0745 – 1735	
Weather:	Dry and sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Validation of TP913	Excavation previously prepared (17th September). Validation samples taken and labelled Face B, C, D, E1 and E2, sampled by NHSED. (Face A missing due to adjoining pit TP616).	WYGE satisfied samples were taken following outlined methodology and are representative of each face.
Validation results	TP910 S01, S02 are both indicated as suitable for re-use on site.	
Lorry load V14 collected	80 drums collected by Veolia for disposal via incinerator. Labelled as V14.	WYGE satisfied material is removed from site following correct methodology.
Groundwater sampling	Weekly groundwater sampling from on site boreholes. Five well volumes purged from the well and field parameters recorded. 2 litre samples obtained. With the exception of BH605 which was purged to dry and showed no recharge for sampling. Purged water discharged direct to water treatment system. Water treatment system also sampled.	WYGE satisfied samples were obtained following outlined methodologies.
Removal of material from TP913	Material previously removed from TP913 now being bagged after being allowed to drain. Grouped for testing in groups of 10.	To be tested.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 66

Date:	Friday 19th September 2008	**General comments:**
Duration of visit:	0800 – 1730	
Weather:	Clear and dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP616 and TP908 for validation.	Base and sides of TP616 scraped and placed in drums from TP616. Material from TP908 (previously validated) stockpiled on site for testing. Validation samples from TP616 C and E2 and TP908 A, B1, E1, E2. During sampling, PCBs identified in area between TP908 and TP616, additional drums identified and removed with surrounding soils (9 drums). Further drums identified in eastern face, close to site boundary.	WYGE satisfied by validation process but further works required to ensure completion of validation process.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 67

Date:	Monday 22nd September 2008	**General comments:**
Duration of visit:	0800 – 1650	
Weather:	Clear and sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Test pit east of TP616.	Test pit to identify the extent of drums in the eastern face of TP616. Possible drum identified at depth with fragments brought to the surface. Black grease with strong odour observed.	Requires large scale excavation to assess the nature and extent of any drums.
Load V15 off site.	80 drums removed from site for incineration by Veolia. Identified as load V15.	WYGE are satisfied the drums were removed from site following agreed methodologies.
Excavation of TP616	Surface material around identified drum fragment removed and stockpiled on site for testing.	Material removed to identify the extent of ant drums on site in this area.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 68

Date:	Tuesday 23rd September 2008	**General comments:**
Duration of visit:	0800 – 1740	
Weather:	Dry, clear.	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP616	Continuation of removal of surface material from the edge of TP616 (identified from this point as TP616a). Material consists of general fill with a stratum change to reworked alluvium and river gravels. Partial drum found in the area of test pit. No visual or olfactory evidence of PCB product or any other drums in the area. 9 drums removed from the area of TP616 to clear the area of TP616 and TP616a.	Excavation now awaiting validation. additional samples will be taken directly around drum fragment to ensure the absence of PCBs.
Load V16 off site	80 drums removed from site for incineration by Veolia. Identified as load V16.	WYGE satisfied the material left site following agreed methodology.
Air monitoring	Manestream on site to carry out weekly air monitoring on site.	WYGE satisfied monitoring conforms to the agreed methodology.
Validation of TP616 and TP616a	Removal of final material from TP616 in preparation for validation. Cutting into alluvium where required (product visually evident in fissures in the clay). Validation samples taken; TP616a Face A, B, C, E1, E2 and TP616 B and E1. Validation complete of TP616 and TP616a	WYGE satisfied samples were taken in accordance with outlined methodology and are representative of conditions on site.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 69

Date:	Wednesday 24th Sept 2008	**General comments:**
Duration of visit:	0800 – 1740	
Weather:	Overcast	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Filling drums with contaminated material	Filling drums from material collected from TP616 and TP616a.	
Excavation of TP905 to edge of TP635a	Material scraped northwards (all visually contaminated). Material stockpiled in TP635a to be removed at a later date.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 70

Date:	Thursday 25th Sept 2008	**General comments:**
Duration of visit:	0750 – 1730	
Weather:	Overcast with occ. showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Groundwater monitoring	Weekly groundwater monitoring. Five well volumes purged and discharged to water treatment system. Field parameters recorded during purging process. 2 litre samples collected after purging. With the exception of BH605 – purged to dry with no recharge to sample. Water treatment system also sampled (2 litres).	WYGE are satisfied that samples were obtained following agreed procedures.
Surface water monitoring.	Samples SM1 and SM2 both collected (2 litres) as part of the four weekly sampling process.	WYGE are satisfied that samples were obtained following agreed procedures.
Validation results	Results indicate all faces of TP913 have levels of PCBs below site specific RTVs and the excavation is suitable for backfilling.	WYGE are satisfied that TP913 is suitable for backfilling with clean material.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 71

Date:	Friday 26th September 2008	**General comments:**
Duration of visit:	0800 – 1700	
Weather:	Clear and Sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP905	Material from eastern half of TP905 where no drums were found is removed and stockpiled. Western edge of excavation also scraped and cleared for validation.	Excavation awaiting excavation.
Validation samples.	Validation sample taken from remainder of southern extent of large excavation. TP905 Face B2, E2, C, D, E3, B3. TP908 Face E3, D. TP616 Face D, E3. Earth bund constructed to separate areas validated from those not yet validated. (Constructed from material from TP910 S03 and S04 – previously stated as suitable for reuse).	WYGE are satisfied the samples were taken following agreed methodology and are representative of the individual faces.
TP634	Sides cleared of loose material and base scraped in preparation for validation. Material stockpiled for testing (TP902 S05)	Awaiting validation.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 72

Date:	Monday 29th September 2008	**General comments:**
Duration of visit:	0750 – 1720	
Weather:	Dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
	Water not pumped from the excavations over the weekend and as such water levels in the validated area are significantly higher (levels in TP910 are noticeably reduced).	
Validation results received	TP908 and initial sampling of TP616 results received and all fall below the RTVs for the site, with the exception of TP908 Face B. Face previously validated as clean and likely to be liked to product on the water surface. Face to be scraped back and resampled.	WYGE are satisfied samples are below RTV and TP908 face B is suitable for resampling.
Load V18 removed from site	80 drums dispatched from site to Veolia, labelled as V18.	WYGE satisfied that material was dispatched to a suitable disposal facility.
Excavation of TP902	Removal of 3 drums with red brown grease from TP902.	On going activity
Sample of general dirty material	Material accumulated in TP910 (mixed sources) from clearing other excavations – all visually contaminated tested to assess levels of PCBs in sample. Labelled as TP00 S01.	Sample to be used to assess suitability of material for disposal.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 73

Date:	Tuesday 30th September 2008	**General comments:**
Duration of visit:	0810 – 1715	
Weather:	Occasional showers	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP914	Material being removed and added to stockpile in TP910. 28 drums removed and segregated for crushing and placing into drums.	Further clearance required before validation.
Load V19 off site	Load V19 removed from site by Veolia. 80 drums removed.	WYGE satisfied material was removed in a suitable manner.
Validation results received	TP616a – all faces cleared as being below RTVs. TP616 – all faces now passed as below RTVs. Stockpile TP908 S02 – fail. Spilt and retested as S02a, S02b, S02c. Marginal failure.	TP616 and TP616a are suitable for backfilling. TP908 S02 split and retested.
Weekly air monitoring	Weekly air monitoring carried out by Manestream as part of weekly sampling requirements.	WYGE satisfied.
Crushed stone use on site	NHL continuing to lay stone in areas of both hard-standing and soft landscaping.	WYGE advise the NHL to be aware of risks of laying potentially unsuitable material.
Excavation of TP905 and TP635a	Removal of surface material between TP905 and TP635a along the eastern face. 2 drums and product removed. Surface material stockpiled for future testing.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 74

Date:	Wednesday 1st October 2008	**General comments:**
Duration of visit:	0800 – 1700	
Weather:	Windy, dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP905 and TP635a	Surface material continues to be removed. Numerous small metal containers – possible paint cans. Material stockpiled separately for validation of absence of PCBs. No evidence of further drums in excavation.	On going activity
Load V20 off site	80 drums removed from site as load V20	WYGE satisfied material is removed in a suitable manner.
Removal of drums from TP914	Previously segregated and accounted for. Drums removed from crushing and loading into drums for removal.	Prioritised after request by NHL
Backfilling of TP913	Smiths ground-workers backfilling TP913 and TP616a with material classed as suitable. (TP616a S01, TP905 S04, TP616 S04).	WYGE satisfied.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 75

Date:	Thursday 2nd October 2008	**General comments:**
Duration of visit:	0800 – 1720	
Weather:	Windy, dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP635a	Further removal of surface material. No further evidence of drums or PCB product. Base of TP635a and TP634 scraped in preparation for validation. Visually contaminated material placed in TP910 as part of large stockpile.	Awaiting validation
Groundwater monitoring	Weekly groundwater sampling. Five well volumes purged (or to dry) and two litre sample obtained. With the exception of BH601, BH603, BH604, BH605, BH606, BH607 all purged to dry with no recharge. Water treatment system also sampled.	WYGE satisfied sampling was undertaken following outlined methodology. Limited number of water samples due to prolonged period of dry weather.
Load V25 off site	Load V25 removed from site. 80 drums removed.	
Validation results	Results for remainder of sampled area in southern extent of large excavation. Three failures requiring retesting. TP908 Face D, TP905 Face B2 and Face B3.	Faces require scraping and re-testing before pits can be fully validated.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 76

Date:	Friday 3rd October 2008	**General comments:**
Duration of visit:	0800 – 1720	
Weather:	Cold, dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Backfilling of excavations	SL marked faces which still require re excavation and resampling. Backfilling to continue in validated areas around these areas.	WYGE satisfied
Construction of clean bund in large excavation	Clean material used to construct bund to show the limit of areas which have been cleared and sampled.	WYGE satisfied
Validation results	TP908 B1 retest is confirmed as suitable for backfilling.	WYGE satisfied
Validation samples	Stockpiles from TP635a S05 to S14. TP905, TP635a and TP634 sampled. Retests of TP905 B2 and B3.	WYGE satisfied samples were taken following agreed methodology.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 77

Date:	Monday 6th October 2008	**General comments:**
Duration of visit:	0800 – 1740	
Weather:	Cold, overcast	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Backfilling of TP913, TP616, TP616a and TP908.	Continuation of raising levels in excavations previously validated and assessed as below RTVs (backfilling continuing around various retests in TP905 and TP616).	Backfilling of areas is limited to those areas where validation results have been received.
Lorry load V26	80 drums of material removed from site by Veolia. Identified as load V26.	No comment
Filling drums	On going daily activity of filling drums from contaminated material.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 78

Date:	Tuesday 7th October 2008	**General comments:**
Duration of visit:	0800 – 1715	
Weather:	Heavy rain, showers pm.	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Air monitoring	Weekly air monitoring carried out by Manestream.	Air monitoring undertaken as part of the requirements outlined in the monitoring specification for the site.
Validation results	Stockpile validation results (TP908 S02a, S02b, S02c) all shown to below the required levels to remain on site.	Results are from a stockpile previously identified as above RTVs. however since the three resamples indicate similar levels of PCBs (all below RTVs) and there are no visual or olfactory signs of contamination the material has been assessed as being suitable for re-use on site.
Filling drums	Due to weather conditions, on site works are limited to filling drums.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 79

Date:	Wednesday 8th October 2008	**General comments:**
Duration of visit:	0805 – 1715	
Weather:	Dry, sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Validation results	Results from TP635a E3 E4 and TP635a S05 – S14 also shown to have levels of PCB below the site specific RTVs	WYGE confirm the suitability of the material to be reused on site.
Load V21 off site	Lorry load V21 removed from site by Veolia (80 drums of material)	
Backfilling of excavations	TP913, TP616, TP616a and TP908 now fully backfilled to ground levels.	
Sampling Crushed stone.	Samples CS11 – CS15 taken by NHSED from the areas of stone already lain in areas proposed for soft landscaping.	WYGE not present for sampling process.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 80

Date:	Thursday 9th October 2008	**General comments:**
Duration of visit:	0750 – 1725	
Weather:	Foggy, clearing to sun	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP636C and TP636D	Removal of surface material (stockpiled on site for sampling). The two trial pits are excavated as one excavation due to proximity of excavations. Large quantities of swarf identified in TP636D (potentially explaining the localised but strong geophysical anomaly). Highly fragmented drums with bitumen like solid glassy material. 8 drums removed from the combined excavations. Validation samples taken; • TP636C Face A, B, D, E • TP636D Face B, C, D, E • Stockpiles TP636C S01, S02, TP636D S01, S02.	WYGE are satisfied there was no further sign of drums in the faces of the excavation prior to sampling. Samples were obtained following the agreed methodology.
Groundwater monitoring	Five well volumes of water purged (or to dry). Two litre samples obtained and field parameters recorded with the exception of BH603, BH605 where there was insufficient recharge to obtain a sample.	WYGE satisfied the groundwater samples were obtained following agreed methodologies.
Excavation of TP656B and TP656C	Surface material removed and stockpiled on site for testing. The two trial pits are excavated as one excavation due to proximity of excavations.	On going activity.
Load V22 off site	Load V22 removed from site. 80 drums removed by Veolia.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 81

Date:	Friday 10th October 2008	**General comments:**
Duration of visit:	0750 – 1645	
Weather:	Dry and sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	LandClean	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP656B and TP656C (continued)	Further removal of surface material. Drums and surrounding soils removed and added to the skip for crushing and disposal. 15 drums removed in total. Validation samples • TP656B Faces A, B, D, E, • TP656C Faces B, C, D, E	WYGE satisfied there was no further sign of drums in the faces of the excavations and the samples were obtained following approved methodologies.
Excavation of TP915	Very minimal geophysical anomaly and no reports of drums in previous phases of excavation. Surface material removed and stockpiled on site for sampling. No drums identified as excavation is advanced to the top of the alluvium. Validation samples • Faces A, B, C, D, E.	WYGE agree the previous laboratory results indicate the possible cross contamination during excavation. No indication of drums present in the excavation or visual or olfactory signs of contamination.
Backfilling	TP635a and TP634 being backfilled by Smiths with material from TP635a S05, S06 and S07 (deemed suitable for reuse on site).	No comment.
Landgas monitoring	First round of landgas monitoring undertaken since the completion of piling on site. Completed by NHSED.	WYGE are satisfied the landgas sampling was undertaken following best practice and in accordance with agreed methodologies.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 82

Date:	Monday 13th October 2008	**General comments:** • Excavation of TP914
Duration of visit:	0810 – 1730	
Weather:	Overcast, dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
TP915	Water being pumped to allow immediate backfilling (prior to receipt of sample results) to allow safe movements on site. Backfilled with clean material from general stockpiles.	WYGE are satisfied there is no indication of drums or PCB product in the vicinity of the excavation.
Load V23 off site	80 drums removed from site by Veolia.	
Validation samples	Samples taken and identified as; TP656 B S01, S02 TP656 B S01, S02 TP915 S01	WYGE are satisfied that samples were obtained following agreed methodologies.
Excavation of TP914	Material being removed from the southern area (between TP914 and TP635a). Surface material stockpiled for testing. 23 drums removed.	On going activity.
Crushed stone samples	CS16 – CS20 taken from large stockpile on site.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 83

Date:	Tuesday 14th October 2008	**General comments:** • Excavation of TP902 / TP914
Duration of visit:	0750 – 1700	
Weather:	Overcast, showers pm	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Further excavation of TP914 (southern face)	Further removal of drums and storage in TP910. 14 drums removed. Further drums have been identified in the southern face.	On going activity.
Load V24 off site	Last lorry off site. 80 drums identified as V24.	
Validation samples	Samples obtained from stockpiles and identified; TP914 S06 and S07 TP635a S15	WYGE satisfied samples were obtained following agreed methodology.
Air monitoring	Manestream on site for weekly air monitoring.	
Excavation of TP902 and TP914.	Further removal of drums from area between TP902 and TP914. A further 5 drums removed.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 84

Date:	Wednesday 15th October 2008	**General comments:** • Excavation of TP902 / TP914.
Duration of visit:	0810 – 1725	
Weather:	Overcast, drizzle	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP902 / TP914	Surface material removed and stockpiled on site for testing. 49 drums removed.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 85

Date:	Thursday 16th October 2008	**General comments:** • Excavation of TP902 / TP914 • Groundwater monitoring
Duration of visit:	0815 – 1710	
Weather:	Cold, sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Further excavation of TP902 / TP914	A further 45 drums removed from the area between TP902 / TP914. Surface material stockpiled on site for testing.	On going activity.
Groundwater monitoring	5 well volumes purged (or to dry), with two litre samples obtained and field parameters recorded, with the exception of BH603, BH605, BH606, BH607 9purged to dry with insufficient recharge for sampling.	WYGE are satisfied that samples were obtained following agreed methodology.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 86

Date:	Friday 17th October 2008	**General comments:**
Duration of visit:	0810 – 1700	Excavation of TP902.
Weather:	Cold, sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Backfilling of TP656B and TP656C	Smiths backfilling TP656B & TP656C with material from TP910 S01 to S04.	Excavation previously cleared for backfilling.
Further excavation of TP902.	Extension northwards. Additional 43 drums removed from TP902. No further drums identified in the northern face of the excavation, further drums in western face.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 87

Date:	Monday 20th October	**General comments:**
Duration of visit:	0805 – 1705	
Weather:	Showers, heavy rain.	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Validation results	Results indicate the following stockpiles are suitable for reuse on site; TP914 S06, S07 TP635a S15	
Sampling crushed stone	Samples CS21 – CS25 taken by NHSED from areas of laid stone in soft landscaping areas.	
	General site works limited due to heavy rain.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 88

Date:	Tuesday 21st October 2008	**General comments:** • Validation of parts of TP902 & TP635a • Excavation of area between TP902 / TP914.
Duration of visit:	0800 – 1715	
Weather:	Clear, cold	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Retesting of stockpiles	Stockpiles TP656B S01 and TP656C S01 both identified as having PCB levels above RTVs. stockpiles are isolated, split and retested as TP656B S01a, S01b TP656C S01a, S01b, S01c	WYGE happy retesting may allow volumes requiring removal from site to be reduced.
Air monitoring	Weekly air monitoring carried out by Manestream.	
Validation of large excavation.	Base of excavation scraped ready for sampling, a bund of clean material is used to delineate sampled areas. TP902 – Faces A2, A3, B2, E2, E3, E4, E5, TP635a – Faces D, E5.	WYGE are satisfied samples were taken following agreed methodology.
Excavation of area between TP902 and TP914.	Further expansion of excavation with an additional 7 drums removed containing typical red brown grease.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 89

Date:	Wednesday 22nd October 2008	**General comments:**
Duration of visit:	0930 – 1755	
Weather:	Clear sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of area north of TP914.	20 further drums removed. Excavation extended with no further drums identified for removal.	Area ready for sampling.
TP636C Face E	Results from resample indicate the pit is now suitable for backfilling with material identified for reuse on site.	Resutls shows that TP636 C and D are now ready for backfilling.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 90

Date:	Thursday 23rd October 2008	**General comments:** • Groundwater and surface water monitoring • Excavation of TP636, TP656 • TP914 awaiting validation.
Duration of visit:	0800 – 1715	
Weather:	Overcast, windy	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
	Loading drums with visually contaminated material has been halted until the final disposal destination has been agreed.	
Excavation of TP914 area	Excavation being scraped clean prior to validation samples being taken. No further drums identified.	Excavation awaiting validation.
TP636 excavation	Surface material being removed and used as bund material for storage area being constructed on site.	Surface material still requires validation resting prior to being assured suitable for reuse on site.
Groundwater monitoring	5 well volumes purged (or to dry) and disposed off via the on site water treatment system. 2 litre samples obtained and field parameters recorded with the exception of BH603, BH604, BH605, BH606, BH607 where there was insufficient recharge to obtain samples.	WYGE satisfied sampling was undertaken following the agreed methodology.
Surface water monitoring .	Samples from monitoring locations SM1, SM2 obtained (2 litres).	WYGE satisfied sampling was undertaken following the agreed methodology.
Excavation of TP656	Surface material removed for use as bund material around waste storage area. 26 drums removed from the excavation.	On going activity.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 91

Date:	Friday 24th October 2008	**General comments:**
Duration of visit:	0755 – 1700	
Weather:	Clear, sunny	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Continuation of excavation of TP656	3 further drums removed.	Excavation is awaiting further excavation and dewatering prior to validation.
Excavation of TP636	Removal of drums previously exposed. 20 drums removed; predominantly red brown free flowing grease.	No further drums identified. Excavation awaiting validation.
Excavation of TP656A	Surface material removed from 4m by 4m excavation, material stockpiled for testing. Metal fragments and drum identified containing non PCB material. Material removed to depth of alluvium. No evidence of PCBs or further drums. Faces A-E sampled. To be backfilled with clean material prematurely to allow continuation of works.	Findings are consistent with those identified in previous trail pit logs, no visual signs of contamination reported or observed during excavation.
Validation samples obtained	Samples obtained from stockpiles and excavation faces. As follows; TP914 S08, S09, TP902 S06, S07 TP902 A1, B1, D, E1, TP914 A1, A2, D1, D2, E1, E2.	WYGE agree samples were representative of material and were collected following agreed methodology.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 92 - 96

Date:	27th October to 31st October	**General comments:**
Duration of visit:	5 days	Completion of excavations and validation sampling.
Weather:	Dry	
Visiting engineer:	Sian Thomas	
Main contractor:	Norwest Holst Limited	
Remediation contractor:	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Excavation of TP910 / TP914	Further removal of drums (25) from TP910 and final removal of contaminated material from removal from site. Validation samples taken from faces; TP914 D3 D4 E3 E4 C TP902 C TP910 B C D E1 E2	Validation samples taken from final faces from large excavation after final scrape and removal of material.
Further excavation of TP656	Final excavation and sampling of TP656. Validation samples taken from Face B, C, D, E.	Excavation awaiting validation results before retesting.
	All excavations are now complete and awaiting validation results before backfilling.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 97

Date:	Monday 3rd November 2008	**General comments:**
Duration of visit:	0800 – 0950	
Weather:	Clear	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
	Works on site now limited to one excavator and operative and water treatment system. PCB removal now complete and awaiting final sets of analytical results.	Further excavation may be required pending laboratory results.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 98

Date:	Thursday 6th November	**General comments:**
Duration of visit:	0800 – 1445	
Weather:	Overcast, dry	
Visiting engineer:	Sarah Ling	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Groundwater monitoring	Groundwater monitoring undertaken by NHSED. Water treatment system also sampled.	WYGE satisfied water sampling was undertaken following agreed methodology.
Backfilling of large excavation	Section previously passed as suitable for backfilling now being backfilled by Smiths	
Excavation of TP910 Face D	After failure of Face D with respect to site specific RTVs the face is scraped by the excavator and material placed with material for disposal. 1 further drum identified and removed and surrounding material excavated. Face resampled.	WYGE satisfied sample was obtained following agreed methodology. No further evidence of drums or PCBs.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 99

Date:	Friday 30th January 2009	**General comments:**
Duration of visit:	0900 – 1230	
Weather:	Heavy showers	
Visiting engineer:	Sarah Roberts	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Norwest Holst Soil Engineering	

Current activities on site	**Details**	**WYGE comment**
Current construction activities on site.	Steel framework of school building completed and general construction works being undertaken during the site visit. Capping material in the areas of soft landscaping, playing fields and planting areas is currently being laid across the site with material still being imported to required quantities.	
PCB remediation area.	Stockpile of contaminated soil has now been removed from site and bunded area remains based with a number of drums containing PCB contaminated material being stored within it. A large number of drums with PCB contaminated material are still present on site awaiting disposal. All other materials have been removed from site.	
Cap thickness Validation Process.	Validation of the capping layer in area of soft landscaping, planting areas and grassed playing areas will take place in two stages. The initial thickness of the aggregate layer forms the basis for the topsoil layer. Total thickness should equal a minimum thickness of 600mm. Trial holes were excavated through the cap to establish the aggregate layer thickness and the presence of a visual barrier (orange geotextile) between the top surface of the made ground and the base of the capping layer. Nine trial holes were excavated (TP1 to TP9) using a 8 tonne 360 excavator, final clearance of the excavations was carried out by hand to ensure minimal damage to the geotextile membrane. The presence of the geotextile was noted in each excavation and the depth of aggregate measured and recorded. In each trail hole the aggregate consisted of a grey (occasionally grey brown) sand and gravel of coarse grey sandstone ('Grit Stone)	As a result of variation in aggregate thickness across the areas investigated, NHCL are considering re-profiling those areas to achieve the required thickness of aggregate. If this is the case WYG require the cap thickness to be reassessed at these locations to validate the condition of the capping layer prior to the import of the topsoil.

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 99

	A summary of the depth of the capping layer is recorded below. TP1 – 0.455 m TP2 – 0.515 m TP3 – 0.530 m TP4 – 0.450 m TP5 – 0.435 m TP6 – 0.460 m TP7 – 0.520 m TP8 – 0.435 m TP9 – 0.425 m Target depths are either 0.450 m or 0.500 m based on NHCL design specifications. Each trial location was photographed as a record of the excavation and were due to be surveyed to provide an accurate location of the excavation. An additional validation will be required once the construction of the cap (addition of the topsoil layer) is complete. Photographs of the excavations are provided in the validation report.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 100

Date:	Wednesday 4th March 2009	**General comments:**
Duration of visit:	0900 – 1000	
Weather:	Showers and sunny spells	
Visiting engineer:	Rhys Davies	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Land Clean Limited	

Current activities on site	**Details**	**WYG comment**
Current construction activities on site.	Construction of the school building ongoing during the site visit. Import and stockpilling of capping material for the areas of soft landscaping, playing fields and planting areas.	
PCB remediation area.	Drums containing PCB contaminated material being emptied within a soil bunded area prior to screening of oversized material and the lime stabilisation process. All other stockpilled PCB contaminated materials have been removed from site.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 101

Date:	Friday 6th March 2009	**General comments:**
Duration of visit:	1430 – 1530	
Weather:	Dry sunny spells	
Visiting engineer:	Rhys Davies	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Land Clean Limited	

Current activities on site	**Details**	**WYGE comment**
Current construction activities on site.	Construction of the school building ongoing during the site visit. Import and stockpiling of capping material for the areas of soft landscaping, playing fields and planting areas.	
PCB remediation area.	Drums containing PCB contaminated material have been emptied within a soil bunded area and the oversized material separated and stockpiled separately. The PCB contaminated material had been spread into a 300 mm thickness layer prior to the application of quick lime. Treatment area being rotovated by tractor mounted plant.	

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 102

Date:	Wednesday 9th Sept 2009	**General comments:**
Duration of visit:	1430 – 1500	
Weather:	Dry sunny spells	
Visiting engineer:	Sarah Roberts	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Land Clean Limited	

Current activities on site	**Details**	**WYGE comment**
Current construction activities on site.	Construction of the school building ongoing during the site visit.	
Cap Validation works	Validation of TP1, TP2, TP18 and TP19 within the capping system. In the case of TP1 and TP2 the aggregate layer and presence of visible barrier have previously been established. Topsoil levels of 200mm recorded in both cases completing the validation of both trial pits. TP18 – validation of full capping layer. Visible barrier present at base of capping layer, aggregate layer of 200mm, topsoil layer of 400mm with total capping layer of 600mm. Validation of excavation complete. TP18 – validation of full capping layer. Visible barrier present at base of capping layer, aggregate layer of 400mm, topsoil layer of 300mm with total capping layer of 700mm. Validation of excavation complete.	Validation of TP1, TP2, TP18 and TP19 complete with minimum thickness of capping layer achieved.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 103

Date:	Wednesday 7th Oct 2009	**General comments:**
Duration of visit:	1400 – 1500	
Weather:	Dry sunny spells	
Visiting engineer:	Sarah Roberts	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Land Clean Limited	

Current activities on site	**Details**	**WYGE comment**
Current construction activities on site.	Construction of the school building ongoing during the site visit.	
Cap Validation works	Validation of TP3, TP4, TP5, TP10, TP11, TP15, TP16 and TP20 within the capping system. TP15 and TP16, only the aggregate layer was available for validation and full validation will be assessed on the completion of the capping layer when the topsoil layer has been constructed. TP20 – full validation undertaken, with 300mm of aggregate and 300mm of topsoil present and therefore the minimum cap thickness has been achieved. TP3, TP4, TP5, TP10 and TP11 – validation of the topsoil layer in these locations (aggregate layer thickness previously recorded). In all locations the total cap thickness of aggregate and topsoil meets or exceeds required thicknesses.	Validation of TP3, TP4, TP5, TP10, TP11 and TP20 complete with minimum thickness of capping layer achieved or exceeded. Further validation required for TP15 and TP16.

WYG Environment
5th Floor, Longcross Court, 47 Newport Road, Cardiff, CF24 0AD

DURHAM ROAD
VALIDATION WORKS

SITE VISIT RECORD 104

Date:	Thursday 5th Oct 2009	**General comments:** Completion of cap validation process, all inspection locations are shown to meet the minimum required thickness.
Duration of visit:	1400 – 1500	
Weather:	Dry	
Visiting engineer:	Sarah Roberts	
Main contractor:	Norwest Holst Limited	
Remediation contractor	Land Clean Limited	

Current activities on site	**Details**	**WYGE comment**
Current construction activities on site.	Construction of the school building ongoing during the site visit. Works approaching completion and due to be completed within one month.	
Cap Validation works	Validation of TP6 to TP9, TP12, TP13 and TP15 to TP17 within the capping system. TP17 – full validation undertaken, with 60mm of aggregate and 600mm of topsoil present and therefore the minimum cap thickness has been achieved. TP6 to TP9, TP12, TP13, TP15 and TP16 – validation of the topsoil layer in these locations (aggregate layer thickness previously recorded). In all locations the total cap thickness of aggregate and topsoil meets or exceeds required thicknesses.	Validation of TP6 to TP9, TP12, TP13 and TP15 to TP17 complete with minimum thickness of capping layer achieved or exceeded.

Appendix F Contractor Method Statements

NORWEST HOLST

Method Statement

Title: PCB Removal and Disposal			**M.S. No:**	189573-MS025
			Rev. No:	0
			Page No:	**1 of 10**
Contract No:	18/9573		**Controlled Copy No.**	
Contract Name:	Glebelands PFI Newport			
Rev No:	**Date:**	**Issue / Revision Record:**	**Author:**	**Approved by:**
DRAFT	19.06.08	For Comment	NHL	
0	20.06.08	For Construction	NHL	

Contents:

Distribution:

1. **File**
2. **M. Phillips – NHL**
3. **D. Williams – NHL**
4. **R. Hogg – NHL**
5. **M. McGuinness – NHL**
6. **NHL Soils**
7. **White Young Green Environmental**
8. **Bill Baker**
9. **Land Clean**
10. **Grundon**
11. **Terradat**
12. **A. Ropke – NCC**
13. **Environment Agency**

Notes:

1 – Holders of a controlled document are responsible for ensuring that any superseded Method Statement is removed and destroyed.
2 – Please keep your Method Statement safe and do not allow it to be copied. Contact your Line Manager if you require further copies.

1.0 Risk Assessment

Refer to appendix A for Risk Assessment

2.0 Scope

This method statement describes the works to be undertaken to remove and dispose of known PCB contamination from the Durham Road School Construction Site. It incorporates works being undertaken by the following parties:

- Norwest Holst Limited – Civils
- Norwest Holst Limited – Soils
- Land Clean
- Grundon
- White Young Green Environmental
- Independent Validation Environmental Engineer (Bill Baker)
- Terradat

3.0 History

The PCB contamination is known to be concentrated around between 17 and 22 steel drums buried across an area approximately 100m x 80m on plan. Geophysical survey company Terradat undertook Electromagnetic Mapping & Metal Detecting surveys of this area to identify the drum locations. These are marked on plan E3808/4406/ENV/103. Trial holes were dug by Norwest Holst Soils in the presence of Bill Baker to verify these surveys. These trial holes successfully indicated that the surveys were accurate, and that it was possible to identify contaminated soil visually.

White Young Green Environmental has prepared a remediation strategy for the PCBs, which has been approved by the Environment Agency and serves to discharge certain Newport City Council Planning Conditions. The requirements of this strategy drive the method of working described in this method statement.

Prior to commencement of excavation, Norwest Holst Civils have marked out the locations of the drums according to drawing E3808/4406/ENV/103.

4.0 Order / priority

1. Establish monitoring regime
2. Mobilisation – Isolation of dirty area – Decontamination – Welfare
3. Site Induction
4. Excavation – Separation & stockpiling – Testing
5. Loading & Transportation

6. Backfilling
7. Geophysical Surveys
8. Demobilisation

5.0 **Method**

1. Norwest Holst Soils will establish a monitoring regime to comply with White Young Green Environmental's Monitoring Performance Specification. This regime consists of Groundwater Sampling, Surface Water Monitoring on the Reen, Air Monitoring and Land Gas Monitoring. The locations of the various monitoring points are indicated on drawing A042139/4406/ENV/102. The Monitoring Performance Specification gives information on the frequency of testing. All monitoring point installations and testing will be supervised by White Young Green Environmental, in order to facilitate production of a Validation Report.

2. The first stage of mobilisation will be the erection of a physical barrier (heras fencing) to divide the site into clean and dirty areas. This will be carried out by Land Clean. The dirty area will include all the areas identified as containing PCB contamination and will include sufficient areas for the temporary storage of non-contaminated arisings and contaminated materials awaiting off site disposal. Warning signs will be erected around the dirty area identifying the area as a 'Dirty Area' and prohibiting unauthorised access. The general public and non Land Clean personnel will not be allowed access to the dirty area, except where specifically authorised. Visitors will only be allowed access if accompanied by a senior member of site staff, having first been inducted and having signed in.

   Pedestrian access into and out of the dirty area will be via a decontamination unit set up by Land Clean within the fence line. The movement of personnel through this unit will be rigorously enforced to prevent cross contamination between the clean and dirty areas. The decontamination unit will have its own power generating capacity and water supply will be provided by Norwest Holst Limited – Civils. Land Clean will take responsibility for diesel supply to all of their plant. The diesel delivery vehicle and driver will remain outside the Dirty Area at all times.

   All operatives / personnel entering the dirty area will be required to wear suitable protective clothing: -

   a) Disposable overalls. The overalls will be close fitting at the ankles and cuffs, preferably elasticated, and will incorporate a hood. Contaminated clothing will be placed in double sealed plastic bags, located on the 'dirty' side of the decontaminated unit and sealed before disposal.

b) Safety boots will be worn and overalls pulled down on the outside of the footwear.

Hand protection in the form of impervious gloves and eye protection (goggles) will be worn by those operatives working most closely with the PCBs. In particular this will include those supervising the filling of bags for disposal and those taking samples for testing.

Dust masks and respirators will generally not be required, as the risk is considered to be low. If it becomes apparent during excavation that the risk is increased (e.g. raised level of fibres or odours) then work will stop and the requirement for masks will be re-assessed. Norwest Holst Soils will provide a PID to constantly monitor the air around excavations for VOCs (Volatile Organic Compounds). This can also be used to carry out headspace tests on any soils that produce an odour.

Plant for excavation and lifting operations will be provided by Land Clean. Plant working in the dirty area will remain in the dirty area until contamination is removed prior to demobilisation. Prior to PCB removal a hole will be dug within the dirty area and a skip partially sunk into the hole. This skip will be used to catch potentially contaminated water as plant is jet-washed. This water will be tested for contamination before determining how it is to be removed from site.

Welfare facilities are provided by Norwest Holst Limited in the main site compound.

3. All personnel working on site will attend a Site Induction provided by Norwest Holst Limited prior to starting on site. This will highlight the safety risks particular to the site, and reinforce the requirement to wear PPE (helmet, high-viz and boots) at all times while on site.

4. Prior to any excavations commencing, Norwest Holst Limited's site engineer will issue a permit to dig. While issuing the permit he will indicate to the excavation supervisor and to the plant operator the position of any known services. The only service expected within the excavation area is drainage.

   All excavations will be carried out under the supervision of Bill Baker (Independent Validation Environmental Engineer) and White Young Green Environmental. Bill Baker is familiar with the detail and objectives of the exercise being undertaken and will ensure that a high degree of confidence is provided concerning the decisions made about the material to be segregated and removed and that which is judged to remain on site. His experience will enable the visual identification of contaminated soil in order to determine which material is hazardous and which is non-hazardous.

Only one drum location will be excavated at a time. At each location material will be scraped off in layers by the excavator until contaminated soil is identified. The soil that appears not to be contaminated will be stockpiled for later testing. It will be placed on a polythene sheet and covered by a further polythene sheet to protect it from cross-contamination. Material identified as contaminated (including corroded drums containing PCBs and 1m³ of material around them) will be loaded directly into 1 tonne bulk bags, which will be located adjacent to the excavation and resting on pallets. The bags must only be filled to a maximum of 350kg. Once filled to this capacity, a bag will be closed tightly and held with cable ties, then lifted using forklift attachments on the excavator and moved close to the designated vehicle exit point of the dirty area, awaiting disposal. A further 3m³ of material will be excavated from around the initial excavation and stockpiled as above, but separately from the previous stockpile, for further testing.

Ground water is not anticipated within the depth of planned excavation, however if it is met, excavation will stop and the water level will be monitored and recorded at 5 minute intervals for a period of 20 minutes. If sufficient water is encountered a sample will be taken. A course of action will be agreed between Norwest Holst Limited and White Young Green Environmental before proceeding.

5no. validation samples will be taken from each excavated pit, one from each side and one from the base. The samples will be taken using the excavator. The excavator will use a clean bucket to prevent cross-contamination. These samples will be tested against the Remedial Target Values (RTVs) set out by White Young Green Environmental. Where the samples exceed the RTVs, the excavation will be extended and re-validated. Further samples will be taken from the stockpiled soil, one sample from each stockpile, and tested for PCB levels against the RTVs. If the levels are below the RTVs the stockpile can be used for backfill material. If the levels are above the RTVs but below 50mg/kg, then further testing in accordance with the Waste Acceptance Criteria (WAC) will be required prior to sending to landfill. More heavily contaminated material must be sent for incineration as per the previous method.

5. Waste transportation and disposal is being carried out by Grundon. Lorries will be called in to collect bulk bags when required, although there is a lead-in period for ordering a lorry. The lorries will be open flatbed type with curtain sides. These lorries can hold 24 pallets, and the bags will be stacked 2 per pallet. The lorry will pull up at a point beside the fence line that will be clearly marked, staying in the clean area at all times. A fencing panel will be removed by Land Clean to facilitate loading and then replaced until the next lorry arrives on site.

The bags on pallets will be lifted by the 360 excavator fitted with forklift attachment and loaded onto the back of the lorry through the gap made by removing the fence panel. The loading machine will stay in the dirty area at all times.

Lorry drivers will control the placing of the bags to ensure they are packed in the most efficient way. They will also stick identification labels onto each bag as required by Grundon's procedures. Once fully loaded, the lorry driver will then proceed to an area where they will check the load is secure and complete all relevant paperwork with Norwest Holst Limited's Site Waste Manager. This paperwork will consist of consignment notes brought to site by the drivers and signed by the driver and Site Waste Manager. A copy of the consignment note will be kept on site and a fully completed copy will also be returned to Norwest Holst once the waste has been transferred to the destination waste management centre. The contaminated waste will be incinerated at this centre in a controlled manner.

Upon leaving the site, all lorries will pass through the automated wheel wash located at the site entrance at Herbert Road.

6. Following receipt of positive test results from the laboratory indicating that PCB levels in the ground around an excavation are below the RTVs, backfilling will commence. Where permitted by the outcome of the PCB analysis, backfilling material will be taken from the stockpile of 'clean' arisings adjacent to an excavation. Otherwise, backfill material will either be material won from elsewhere on site or imported stone. Norwest Holst will make arrangements to supply this backfill material using an excavator and dumper. This plant will always remain outside the dirty area. It may be necessary to realign the perimeter fencing to enclose only that area still considered dirty, so that the dumper can access the area verified as clean. The excavator will be used to backfill, having previously cleaned the bucket to ensure no contamination is returned to the ground. Backfill material will be compacted to the satisfaction of Norwest Holst Limited.

7. Following completion of about half the excavation, testing and backfill, Terradat will carry out surveys to check that all drum locations have been cleared in the completed area. In particular, these surveys should pick up if any unknown drums were located deeper than the other drums and 'shadowed' by the shallower drums.

   Terradat will make a second visit upon completion of all excavation, testing and backfill works to verify that the other half of the contaminated area has been cleared. Following completion of the two visits, Terradat will provide a factual report on the survey's findings.

8. Upon completion of site works, machines will be cleaned by jet-wash, with water being collected in the skip for further testing. When plant is deemed to be clean, it will be allowed to exit the 'dirty area' and will be collected for removal from site. The decontamination unit and perimeter fence will be removed by Land Clean. The remediated area will now be available for Norwest Holst Limited to proceed with construction work.

6.0 Materials

1 tonne bulk bags – Grundon
Forklift Pallets – Norwest Holst Limited – Civils
Polythene sheeting – Norwest Holst Soils
Specialist PPE (overalls, gloves, goggles) – Land Clean & Norwest Holst Ltd

7.0 Plant / Equipment

1 x excavator with forklift attachment and 2 buckets – Land Clean
Heras fencing – Land Clean
Decontamination unit and generator – Land Clean
Sampling equipment – Norwest Holst Soils
Testing/monitoring equipment – Norwest Holst Soils & Mainstream
PID – Norwest Holst Soils
Jet wash – Land Clean
Skip – Norwest Holst Limited – Civils
Water Bowser – Norwest Holst Soils

8.0 Storage

All materials and plant listed above will be stored within the dirty area. Land Clean are responsible for allocating space for storage within the dirty area. Materials and plant are to be stored in a tidy fashion to prevent damage, contamination and/or injury.

9.0 Personnel

Norwest Holst Limited – Civils:
Matthew Phillips – Section Engineer – 07778 521464
Mac McGuinness – Foreman – 07748 105786
Dean Williams – Site Engineer

Norwest Holst Limited – Soils
Christiaan Wilkinson – Principal Environmental Scientist – 01133 859138
Sam Davies – Site Engineer – 07917 041997

Land Clean
Keith Rogers – Site Manager – 07733 328541
Plant Operator x 1

Technicians & Labourers x 2

Grundon
Paul McConaghy – Technical Waste Sales – 01491 834340
Lorry drivers

White Young Green Environmental
Rhys Davies – Senior Environmental Consultant – 07788 566787
Sarah Ling – Environmental Consultant – 07825 552006

Independent Validation Environmental Engineer
Bill Baker – 07970 219108

Terradat
Simon Hughes – Operations Manager – 08707 303050
Survey Operatives

10.0 Environment

The measures described above are in place to protect the environment, site operatives and members of the public. The monitoring regime defined in White Young Green's Remediation Strategy has been implemented to verify that these measures are preventing contamination. If any of the monitoring returns unsatisfactory results work will be stopped and the results and possible causes identified before implementing alternative procedures.

11.0 Other MS's, ITP's, etc.

Method for installation of monitoring boreholes is described in another method statement.

12.0 Drawings / sketches

The following drawings are located in Appendix B:

A042139/4406/ENV/102 – Monitoring Installations & Example Environmental Controls Plan
E3808/4406/ENV/103 – PCB Area Soil Remediation Plan

Appendix A
Risk Assessment

Appendix B
Drawings

1.0 RISK ASSESSMENT

Refer to the site specific risk assessment in construction design and management plan (CDM) and Hazard and Precaution Assessment attached to this method statement.

2.0 SCOPE

This method statement covers the aspects of the excavation, segregation of materials, validation sampling, storage of waste material and waste acceptance criteria sampling.

3.0 METHOD

Instructions will be issued in general terms for all remedial excavation pits on site unless there is a specific technical variation on one or more pits.

All pit locations shall be scanned with a CAT and GENNY to prove the absence of buried services. The top 1.20m shall be excavated with extreme caution and continuously scanned at regular intervals with the CAT.

Trial Pits will be excavated in pre surveyed locations to identify and remove the features reported in the previous geophysical survey carried out at the site.

Spoil from the excavations will be visually inspected and placed into the appropriate one tonne bag. PCB contaminated material generally identified as red brown grease will be placed in a one tonne bulk bag pre lined with a suitable impermeable plastic liner. Material that has passed the visual inspection for PCB wastes will be place in a one tonne bulk bag without a plastic liner. All bags containing the excavated materials should contain the following information;
Project Name and reference number,
Date
Location number
Range of depth of material

1m^3 of material surrounding the area identified as PCB contamination should be excavated and stored in a pre lined one tonne bulk bag. An additional 3m^3 of non-PCB contaminated material should then be excavated and placed in one tonne bulk bags without a plastic liner.

Validation sampling shall be taken from each side and the base of the excavation. Composite sampling methods should be use with samples collected from the base of the excavation first so as to minimise cross contamination from the remaining sides. The remaining material from the collection of the composite samples should remain in the excavated pit.

Excavated materials visually identified as containing PCBs should be photographed and visually logged. Physical contact with the PCB contaminated material should be minimised where possible. Sufficiently protective PPE should be warn at all times whilst carrying out excavations.

Extreme caution will be taken with all aspects of the excavation, logging, sampling, testing and photographing.

If water is encountered during excavation operations shall cease and the water level monitored and recorded at 5 minute intervals for a period of 20 minutes and if sufficient water is encountered a water sample recovered.

Supervision of the pit during excavation will be from the end of the pit furthest from the excavator therefore offering the smallest profile to collapse. The driver will be made aware when anyone is intending to enter the pit or when composite validation samples are required.

The JCB shall have two 2' buckets one bucket is to be used for the excavation of PCB materials the other bucket is to be used for all other excavations in order to prevent cross contamination.

For pits that remain left open secure barriers or heras fencing will be erected so as to prevent access to the pit and deep excavation warning signs prominently displayed. Where possible pits should be covered or back filled.

Excavated materials should be stored in an impermeable bunded area and covered with an impermeable sheeting

4.0 MATERIALS

One tonne bulk bags
Large plastic 1m^3 liner bags
Glass 1lt jars and lids
Glass 1lt bottles
Labels and string
Sticky labels
Spray paint – various colours

5.0 PLANT/ EQUIPMENT

Excavators – JCB -3CX with 2x 2 foot buckets
CAT
GENNY
Tape measure
Digital camera
Trial pit photo board and labels
Shovel or spade
Deionised water

6.0 STORAGE

Use of Norwest Holst Ltd metal container for consumables and equipment

7.0 PROTECTION

The working area has been assessed in accordance with the BDA guidelines for contaminants and has been designated as RED. The designation shall be indicated in the construction design and management (CDM) plan.

All personnel will be made aware that they are working in a potentially hazardous environment and the site risks. All personnel will attend an induction prior to undertaking any works on site. Preliminary Site Hazard Assessment Forms are available and these identify many of the potential problems and likely contaminants namely PCBs.

All operatives will be informed to report previously unidentified areas of made ground, variations in expected conditions, strange or pungent waters, gases or any ill health to senior NH site staff.

Personnel will be issued with appropriate PPE as determined by the senior environmental expert, who will be supervising and inspecting the works. Generally operatives carrying out the logging of material and filling of one tonne bulk bags should be provided with a high grade chemical resistant protective suite and gloves. All other operatives should be provided with standard contamination suits. Eye protection should be worn by all operatives within the working area.

8.0 PERSONNEL

1no JCB driver
1no site engineer
1no environmental specialist senior grade or above

9.0 ENVIRONMENT

During excavations be aware of signs that underground services may be present such as marker tiles etc. also be aware that if a concrete obstruction is encountered there is a possibility that the concrete may surround a service.

As designated in the Environment Agency special requirements. Keep fuel and other liquids at a safe distance and located as far away from the water course as reasonably possible at a distance of not less than 10m away.

Ensure that fuel and other liquids are stored in a bunded area with the bund capable of holding the contents of the container in question plus 10%.
Ensure spill kits and a supply of absorbent pads or oil dry is available on site.

If an accident or spillage occurs inform the EA on the emergency number: 0800 807 060, secure the area from site traffic and pedestrians and assist the EA.

THE ENVIRONMENT AGENCY CONTACT NUMBERS

General enquiries: 08708 506 506

Hazardous Waste Registration number: 08708 502 858

Flood line: 0845 988 1188

Incident hotline: 0800 807 060

10.0 OTHER INFORMATION

Refer to the site specific information provided in the construction design and management (CDM) plan.

Refer to method statement environmental sampling and sample handling where samples are required for environmental analysis.

Refer to NHSED COSHH assessment of all materials being used on site.

11.0 DRAWINGS/ SKETCHES

Refer to site specific exploratory hole location plans referenced in the CDM plan.

Refer to the site specific statutory undertakers utility plans referenced in the CDM plan

NORWEST HOLST

Method Statement

Title: PCB Removal and Disposal			**M.S. No:**	189573-MS025
			Rev. No:	addendum 1
			Page No:	**1 of 4**
Contract No:	18/9573		**Controlled Copy No.**	
Contract Name:	Glebelands PFI Newport			
Rev No:	**Date:**	**Issue / Revision Record:**	**Author:**	**Approved by:**
add 1	29.07.08	For Construction	NHL	

Contents:

Distribution:

1. **File**
2. **M. Phillips – NHL**
3. **D. Williams – NHL**
4. **M. McGuinness – NHL**
5. **NHL Soils**
6. **White Young Green Environmental**
7. **Bill Baker**
8. **Land Clean**

Notes:

1 – Holders of a controlled document are responsible for ensuring that any superseded Method Statement is removed and destroyed.
2 – Please keep your Method Statement safe and do not allow it to be copied. Contact your Line Manager if you require further copies.

1.0 Risk Assessment

Refer to appendix A of the original method statement 189573-MS025 for Risk Assessment.

2.0 Scope

This method statement addendum covers the work required to review and validate the level of PCB contamination contained within selected bulk bags on site.

3.0 History

The accumulation of significant quantities of excavated material awaiting incineration has prompted site management to review the material being sent for incineration. It is suggested that a review of the soil already bagged and a more careful check on the soil to be bagged in future may reduce the quantity of material sent for incineration.

4.0 Order / priority

1. Visually re-assess backlog of bagged material & mark-up bags
2. Mark-up further bags as they are filled
3. Store bags in controlled manner
4. Sample bags for testing

5.0 Method

1. Bill Baker is to review the level of contamination in the bags already stored for removal by visual inspection. Those containing drums and obvious PCB contamination will be marked red. All others will be marked yellow to indicate they warrant testing. NHL Soils representative will work with Bill during this process so they are familiar with the criteria he is using to separate the bags and to record which bags have been labelled for testing. Sarah Ling of White Young Green will provide validation supervision and support to this process but it will be led by Bill. Return visits by Bill will be reviewed on a day-by-day basis.

2. The process of loading bags with soil and drums from the ground will continue, and these bags will again be marked up by NHL Soils with Sarah Ling identifying visible contamination and providing validation support.

3. The red- and yellow-marked bags will be stored separately by Land Clean in the manner set out in method statement 189573-MS025. The yellow bags will be stored in groups according to which trial pit location they were excavated from.

4. NHL Soils will take samples from bags in groups of ten as soon as a group of ten is available. Each sample will consist of material taken from all ten bags. Samples will be sent for laboratory analysis as soon as they are ready to prevent delay.

6.0 Materials

See method statement 189573-MS025. In addition, red and yellow spray cans will be supplied by Norwest Holst Limited.

7.0 Plant / Equipment

See method statement 189573-MS025.

8.0 Storage

All materials and plant listed above will be stored within the dirty area. Land Clean are responsible for allocating space for storage within the dirty area. Materials and plant are to be stored in a tidy fashion to prevent damage, contamination and/or injury.

9.0 Personnel

Norwest Holst Limited – Civils:
Matthew Phillips – Section Engineer – 07778 521464
Mac McGuinness – Foreman – 07748 105786
Dean Williams – Site Engineer

Norwest Holst Limited – Soils
Christiaan Wilkinson – Principal Environmental Scientist – 01133 859138
Sam Davies – Site Engineer – 07917 041997

Land Clean
Keith Rogers – Site Manager – 07733 328541
Plant Operator x 2
Technicians & Labourers x 4

Grundon
Paul McConaghy – Technical Waste Sales – 01491 834340
Lorry drivers

White Young Green Environmental
Rhys Davies – Senior Environmental Consultant – 07788 566787
Sarah Ling – Environmental Consultant – 07825 552006

Independent Validation Environmental Engineer

Bill Baker – 07970 219108

10.0 **Environment**

See method statement 189573-MS025.

11.0 **Other MS's, ITP's, etc.**

See method statement 189573-MS025.

12.0 **Drawings / sketches**

See method statement 189573-MS025.

NORWEST HOLST

Method Statement

Title: PCB Removal and Disposal			**M.S. No:**	189573-MS025
			Rev. No:	addendum 2 rev 1
			Page No:	**1 of 4**
Contract No:	18/9573		**Controlled Copy No.**	
Contract Name:	Glebelands PFI Newport			
Rev No:	**Date:**	**Issue / Revision Record:**	**Author:**	**Approved by:**
add 2 rev 1	05.08.08 07.08.08	For Construction Note added about protection of soil from contamination	NHL NHL	

Contents:

Distribution:

1. **File**
2. **M. Phillips – NHL**
3. **D. Williams – NHL**
4. **M. McGuinness – NHL**
5. **NHL Soils**
6. **White Young Green Environmental**
7. **Bill Baker**
8. **Land Clean**

Notes:

1 – Holders of a controlled document are responsible for ensuring that any superseded Method Statement is removed and destroyed.
2 – Please keep your Method Statement safe and do not allow it to be copied. Contact your Line Manager if you require further copies.

1.0 Risk Assessment

Refer to appendix A of the original method statement 189573-MS025.

2.0 Scope

This method statement addendum covers the work involved in sending PCB waste to Veolia at Ellesmere Port as an alternative to Grundon.

3.0 History

The shut-down of Grundon's incinerator for a two week period and their inability to increase the number of wagon-loads to clear the backlog of material has resulted in NHL pursuing an alternative option. Veolia will now be incinerating the material in addition to any wagons that Grundon can provide.

4.0 Order / priority

1. Deliver UN approved drums
2. Deliver tele-handler and off-hire excavator
3. Transfer material from bags marked red into drums
4. Weigh drums and transfer labelling
5. Load drums onto wagon
6. Remove drums for incineration
7. Load further drums as material is excavated and repeat above

5.0 Method

1. UN Approved 205 litre steel drums with clips will be delivered by Forward Waste Management. Initial booked deliveries are 100no. by Wednesday 6th August, 230no. on Friday 8th August and 230no. on Monday 11th August. Further delivery requirements will be reviewed on an on-going basis. The drum material may be changed if a suitable UN approved alternative can be found. The method of off-loading will be determined when the first delivery arrives. Land Clean and NHL will work together to establish a safe method of working, either by offloading by hand or using a machine.

2. NHL will hire in a telehandler with drum clamps for handling the drums. This will be operated by a Land Clean employee holding a current and appropriately endorsed competence card. The telehandler will be delivered on Tuesday 5th August. On the same day, Land Clean will off-hire one excavator and driver.

3. Land Clean will begin to transfer contaminated material from the bulk bags marked red (see 189573-MS025 addendum 1) into the drums by holding the bags over the drums with the telehandler and slitting the

bottom of the bags with a knife. Operatives working with the drums and bags must wear eye protection due to the risk of splashing. Land Clean will initially concentrate on transferring the backlog of filled bags into drums for removal from site. The area surrounding the drums will be covered in plastic sheeting to protect the ground from contamination due to any overspill of material. Any loose material falling on the ground will be picked up by shovel and returned to the drum.

4. Filled drums will be handled by the telehandler using drum clamps. Initially they will be weighed using one of two sets of drum scales which will have been delivered on Wednesday 6th August (Note: Drum scales must be placed on concrete blocks and levelled by Land Clean. The levelling of the drum scales must be checked periodically). The drum weights will be recorded and marked on the drums along with identification. A method of relating bag labelling to drum labelling will be agreed between NHL Soils and White Young Green. This method will be communicated to NHL's site engineer Dean Williams. The drums will be sealed closed and transferred to pallets. Four drums will be loaded on each pallet, and these four will be held together using a banding machine. Finally the pallets will be positioned ready for collection. Each drum will have a label stuck to it which will have been provided to NHL by Veolia. This label identifies it as hazardous waste.

5. Flatbed wagons provided by Ken Jones Transport will come to site via the secondary access route. They are aware of the 12'6" headroom restriction along this route. The wagon will park adjacent to the 'dirty area' and a single heras fencing panel will be removed by Land Clean. The pallets will be loaded onto the rear of the wagon using the telehandler, under supervision by Land Clean's works manager. Once all pallets are loaded, the wagon driver will cover the entire load with a tarpaulin.

6. Prior to leaving site the Consignment Note and Booking Request Form MUST BE COMPLETED. These forms are sent to NHL by Veolia. NHL's Site Waste Manager (Matthew Phillips) will fill out the relevant section of the Consignment Note as the Consignor and the wagon driver will sign acceptance of the waste as the Carrier. The white copy will be held by NHL and the other copies taken by the wagon driver to Veolia. Matthew Phillips will write the Consignment Note Number on the Booking Request Form so that the two forms match (Note: Veolia must be informed of the Consignment Note number before the load is removed from site). The driver will leave site via the wheel-wash and proceed to Veolia's incinerator.

7. Further drums will be filled as material is excavated from the ground. To assist in loading drums Land Clean will erect a chute out of scaffold tubes and a half-pipe (these materials to be supplied by NHL). Material loaded

into the chute will slide down into the drums. Any material that gets stuck will be pushed forward using shovels. The chute can be lifted and moved if required using either the telehandler or an excavator. The above process for labelling, transferring, loading and removing the drums will be followed, as will the method of sheeting the ground to catch any overspill.

6.0 Materials

See above.

7.0 Plant / Equipment

See above.

8.0 Storage

All materials and plant listed above will be stored within the dirty area. Land Clean are responsible for allocating space for storage within the dirty area. Materials and plant are to be stored in a tidy fashion to prevent damage, contamination and/or injury. Initial space limitations may mean some drums have to be stored outside the dirty area. Only empty drums can be stored here, and Land Clean must liaise with NHL to determine an appropriate location which does not impact on other works.

9.0 Contact Details

Ken Jones Transport
Jeff – 01633 282366

Veolia – Incinerator at Ellesmere Port
Debbie – 0151 348 5224
Keith – 0151 348 5161

Forward Waste Management – Drum Supplier
Jon Walters – 07812 152665

10.0 Environment

See method statement 189573-MS025.

11.0 Other MS's, ITP's, etc.

See method statement 189573-MS025.

12.0 Drawings / sketches

See method statement 189573-MS025.

NORWEST HOLST

Method Statement

Title: PCB Removal and Disposal			**M.S. No:**	189573-MS025
			Rev. No:	addendum 3
			Page No:	**1 of 4**
Contract No:	18/9573		**Controlled Copy No.**	
Contract Name:	Glebelands PFI Newport			
Rev No:	**Date:**	**Issue / Revision Record:**	**Author:**	**Approved by:**
add 3	19.8.08	For Construction	NHL	

Contents:

Distribution:

1. **File**
2. **M. Phillips – NHL**
3. **D. Williams – NHL**
4. **M. McGuinness – NHL**
5. **NHL Soils**
6. **White Young Green Environmental**
7. **Bill Baker**
8. **Land Clean**

Notes:

1 – Holders of a controlled document are responsible for ensuring that any superseded Method Statement is removed and destroyed.
2 – Please keep your Method Statement safe and do not allow it to be copied. Contact your Line Manager if you require further copies.

1.0 Risk Assessment

Refer to appendix A of the original method statement 189573-MS025. In addition to this risk assessment, two other significant risks have been identified:

1. **Risk:** PCB materials splashing onto operatives as the drums are dropped into the skip. **Mitigation:** Operatives to wear goggles at all times while working close to the skip; drums to be dropped from a low height.
2. **Risk:** Harm caused by unexpected foreign agents e.g. fibrous asbestos or vapours from hydrocarbons or solvents. **Mitigation:** Land Clean site manager to monitor potential hazard and implement RPE to protect site operatives. Appropriate choice of RPE to be made by Land Clean site manager based on his experience. He is also to ensure that filters are regularly changed in a timely manner.

2.0 Scope

This method statement addendum covers the work involved in compressing corroded drums so that they are small enough to fit inside new 205 litre UN approved drums.

3.0 History

It has become necessary to send the corroded drums being excavated from the PCB area to Veolia for incineration. Many of the drums are currently too large to fit inside the UN approved drums that Veolia can accept. This method statement describes how the drums will be re-shaped and compressed so that they will fit inside the UN approved drums.

4.0 Order / priority

1. Establish bunded area and line with polythene
2. Deliver skip & excavator
3. Place initial soil layer in skip
4. Transfer corroded drums from bags into the skip
5. Transfer corroded drums from the excavation into the skip
6. Compress corroded drums and ‘work’ the soil
7. Load compressed drums and contaminated soil into UN approved drums
8. Clean plant prior to removal from site

5.0 Method

1. Land Clean to clear an area currently occupied by bags of material and level the area off using an excavator. The excavator will establish a bund completely surrounding this area. The whole area, including the bunds, will be polythene sheeted.

2. A 16 yard skip in good condition will be delivered and placed directly onto the polythene in the centre of the bunded area. A 5 tonne excavator (hired by NHL) will also be delivered to site.

3. The 5 tonne excavator will empty soil from several of the bags and spread it evenly across the base of the skip. The soil will be ramped up towards the door end of the skip in order to seal this end.

4. The 5 tonne excavator will start working to clear the backlog of corroded drums currently stored in bulk bags. The excavator will lift one bag at a time from the storage area and place it into the skip. The bag will then be tipped using the machine bucket and the corroded drum worked free. If this method doesn't work it will be necessary for the excavator to lift the bag and an operative to cut the base of the bag to allow the drum to fall free. This will be repeated until several drums have been accumulated. Drums will be dropped from a low height to reduce the risk of PCB material splashing. All operatives working around the skip must be wearing goggles in addition to the standard 'dirty area' PPE to protect them from any splashing of PCB.

5. Meanwhile, the larger 13 tonne excavator will be excavating material from the trial pits. Contaminated soil will be loaded directly into UN approved drums using the method described in previous method statements. Corroded drums will be loaded into a dumper. When several drums have been loaded into the dumper, it will be driven to the skip. Experience has shown that most of the drums will be dry so it will be safe to tip straight into the skip. However, if there is evidence of liquid product (PCBs) the method will be reviewed and probably amended so that the 5 tonne excavator lifts the drums from the dumper and places them carefully into the skip.

6. The 5 tonne excavator will then compress the drums using the back of its bucket until they are small enough to fit into the UN approved drums. Compressed drums will be moved to the opposite end of the skip ready for removal. Most of the PCB within the corroded drums is expected to be in a greasy, viscous state that will not readily flow out of the drums. However, PCBs in a more liquid state have been encountered so this must be expected. The PCB material will be absorbed into the soil in the base of the skip. The excavator will 'work' the soil and PCBs to ensure they are fully absorbed ready for loading into drums. Where soil becomes saturated it will be moved to the end of the skip and more soil will be brought in to cover the base of the skip.

7. The 5 tonne excavator will lift the compressed drums and load them into UN approved drums under the guidance of a banksman. The remainder of the drums can be filled with contaminated soil using the method

described in previous method statements.

8. Upon completion of the works, all plant will be cleaned of PCBs by jet-washer. The water produced will be collected and removed from site in a controlled manner so as not to cross-contaminate the ground. The method of removal from site is to be advised.

6.0 Materials

See above.

7.0 Plant / Equipment

See above.

8.0 Storage

All materials and plant listed above will be stored within the dirty area. Land Clean are responsible for allocating space for storage within the dirty area. Materials and plant are to be stored in a tidy fashion to prevent damage, contamination and/or injury.

9.0 Contact Details

See original method statement 189573-MS025.

10.0 Environment

The measures described above are designed to prevent contamination of the ground by PCB material. The use of soil to seal the skip should prevent most of the PCB material from leaving the skip. Any small quantities that do leak out of the skip will be caught and contained by the polythene sheeting and bunds. Cleaning of the plant will prevent contaminated plant leaving the site.

11.0 Other MS's, ITP's, etc.

See method statement 189573-MS025.

12.0 Drawings / sketches

See method statement 189573-MS025.

Method Statement
For
Norwest Holst
Newport.

Issue Date: Nov 07 Issue No: 1 SFR 98

CONTENTS

1 RISK ASSESSMENTS

Site Location	Date of Assessment	Assessed by
Newport	23rd Feb 2009	Keith Rogers

Hazard	Probability P	Severity S	Significance PxS	Take Action	New P	New S	New PxS
Description of Work Assessed:	The Treatment and off-disposal off contaminated soils						
Responding to an emergency release of fuel.	2	4	8	Refer to COSHH data sheets. Fuel spill kits, Enact procedures for spills. Ensure use of PPE when necessary.	1	4	4
Emissions from untreated soil.	2	2	4	Use PPE and RPE when necessary. Refer to COSHH assessment.	1	2	2
Injury from Manual handling	3	2	6	No unassisted lifts over 25kg – use mechanical assistance wherever possible. Seek assistance.	2	2	4
Release of dust	3	1	3	Dust monitoring, provide PPE. Spray stockpiles with water when necessary and cover if possible. Refer to COSHH assessments.	2	1	2
Crushing, physical hazards	2	3	6	Moving plant; use designated walkways where possible, attract operator's attention before approaching. Use correct PPE. Do not stand too close to moving machinery.	1	3	3
Slips, Trips & Falls	3	3	9	Use designated walkways, be aware of ground conditions	2	3	6
Hearing damage	3	1	3	Use appropriate PPE (i.e. ear defenders) where necessary.	1	1	1
Release of Fine Lime	3	5	15	Dust Monitoring, provide PPE. Controlled working methods.	1	5	5

Probability Rating

1 = Improbable occurrence, typically less than once per year

2 = Low frequency occurrence, between yearly and monthly

3 = Occasional occurrence i.e. monthly or even weekly

4 = Frequent occurrence i.e. may happen twice a week

5 = Common occurrence i.e. can be expected to happen on a daily basis

Severity Rating

1 = Minor cut or bruise which requires treatment by a first aider where the employee can return to work immediately

2 = Significant injury, where follow up treatment or alternative work may be necessary.

3 = Major injury to one person, requiring hospital treatment or involving absence from work.

4 = Multiple major injuries

5 = Death or implementation of site emergency plan.

If new probability rating after control measures is 2 or less this is deemed adequate, If new probability rating is 3 or more – further control measures are required before task is carried out.

2 SUPERVISION AND CONTACT LIST

The excavation will require the following staff:

- Land Clean Site Manager Keith Rogers
- Plant Operators
- Labourers

In the event of an emergency, the Land Clean Site Manager will be the first point of contact, and will take charge of assessing further actions.
Please also refer to site specific Emergency procedures.

Names and numbers are given below:

Emergency Contacts

LAND CLEAN SITE MANAGER	**Keith Rogers**	**07733328541**
↓		
NORWEST HOLST	**Matthew Phillips**	**07778521464**
↓		
EMERGENCY SERVICES:		**999**
ALSO SEE EMERGENCY PROCEEDURES & SITE SPECIFIC SAFETY INDUCTION		

3 PPE REQUIREMENTS

The following PPE is required for all works at the site:

Hard hat, safety footwear, Safety specs, Hi vis, protective latex/rubber/textile gloves.

Additional PPE may be required for specific tasks, but will be provided as necessary, including:

Disposable overalls, protective goggles, full-face visors, RPE.

Please see Site Specific Safety Induction.

4 SUMMARY OF OPERATIONS

In summary, the following activities will form the operations that are required:

- The empting of materials from drums and placing into stockpiles.
- The Screening of over size from Stockpiled materials.
- The lime stabilization of materials.
- The Off-site disposal of materials to landfill.

4.1 Equipment Required

Mechanical equipment required will be as follows:

- Tele handler fork lift
- Mobile site screener
- Tractor
- Lime stabilization unit
- Lorries for transportation of stabilized soils to landfill

5 DETAILED OPERATION

Empting of materials from drums

A tele handler forklift will be used to empty the materials out of the steel drums, the forklift will collect the drums from the area where they are stored and transport them to the treatment area. There they will be empted using the forks and stockpiled. All operatives will stand clear of the forklift while it is manipulating the drums. The empted drums will be cleaned using a jet wash ready for disposal.

Removal of oversized material from soils

A mobile screener will be used to take oversized materials out of the soils before they are stabilized with lime ready for transportation to landfill.

Lime stabilization of soils

A lime stabilization unit will be mounted onto a tractor this will be used to mix the lime into the soils, the soils will be laid out in the treatment area where the stabilization unit will pass over them and lime will be turned and mixed into the soils. Once the soils have been mixed the oversize materials will be reintroduced and placed into a stock pile to await transportation to landfill.

Transportation of materials to landfill

A 360 excavator will load the stabilized soils directly into the back of the Lorries the lorry driver will remain in the cab while this is happening. Once the Lorries have been loaded and sheeted the drivers will collect all relevant paper work before leaving site.

6 WORKING PROCEDURES

6.1 Procedures for Safety of Operatives.

The Land Clean Site Manager will induct all personnel working on the site.

No eating, smoking or drinking will be permitted anywhere on the site except in designated welfare areas.

Prior to commencing works all operatives will be issued with RPE and PPE in accordance with the Site Specific Safety Induction. All safety equipment will be of an approved type.

All works will be carried out to method statements and procedures, as well as good working practise.

6.2 Public Safety & Access

No access will be allowed to the site unless authorised by the Land Clean Site Manager. Public safety is relevant as stated above in detailed operation.

6.3 Emergency Procedures & First Aid.

Emergency Procedures for a Casualty

Arrangements for Dealing with a Casualty

- Summon first aid personnel immediately.
- Ensure the casualty comes to no further harm.
- DO NOT ENDANGER YOUR OWN LIFE.
- Trained staff shall administer first aid as required.
- Inform incident controller.

If casualty requires an ambulance;

- Alert emergency services by telephone (Dial 999) Stating;
- Your name and location.
- Nature of injuries
- Action taken so far
- Inform them of any special circumstances.

If hospital treatment is required.

- First aid personnel are to attend hospital with the casualty.

- Inform any relevant persons (relative etc.)

Enter details of accident in accident book at their earliest opportunity.

EMERGENCY PROCEEDURE FOR FIRE

Emergency Arrangements for Controlling a Major Incident i.e. Fire.

- Raise the alarm by informing all personnel.
- All personnel shall evacuate the site to the emergency assembly point in a safe orderly fashion escorting any visitors to the assembly point (located in the main car park adjacent to the site office.
- The site Fire Marshal shall proceed to ensure complete evacuation providing aid to any persons requiring assistance i.e. – disabled or injured persons etc. and assess the level of response required for the situation.
- First aid personnel may treat any casualties at this time.
- The Fire Marshall shall complete a roll call to ensure complete evacuation.
- The Fire marshal shall summon the necessary emergency services by dialling 999 on the telephone detailing nature of the incident including any special considerations i.e. contaminated areas, Flammables storage areas, excavations etc.
- When the emergency services arrive the Fire Marshal shall proceed to inform the emergency services to the nature of incident – level of evacuation – any special considerations etc.

All visitors to our premises must be informed of the Fire Procedures – Location of Fire Exits – and Fire Call Point, they will be escorted whilst on our premises at all times.

Note

Emergency procedures vary from site to site therefore it is imperative all staff familiarise themselves with site specific emergency procedures. For all sites these will be detailed in the site specific induction.

Annex B
Method Statement Register

LAND CLEAN

Method Statement Register	
Record No. P-522	Competent Person Keith Rogers

Attendees

	Name	Signature I have read and understood this method statement and will not deviate from it	Date
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Operative Comments and Feedback

If you have any comments or ideas on safer methods of working then write them here and discuss them with the instructor

Appendix G NHSED Plates, Borehole and Excavation Logs

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH601
Header

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	17/06/2008
Consultant	White Young Green			Date Completed	17/06/2008

PROGRESS

Date	Time	Hole depth	Casing depth	Water depth	Remarks
17/06/2008	1130	2.40	2.40	2.20	End of BH

BORING DETAILS

Hard Strata from depth	Hard Strata to depth	Chiselling hours	Remarks

CASING

Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.
150	2.40	150	2.40

WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

GENERAL NOTES

1. Hand dug service inpsection pit from GL to 1.20m.
2. Borehole completed 2.40m depth.
3. No samples taken during drilling. Borehole constructed for water monitoring purposes only.
4. 50mm diameter standpipe installed with slotted from 2.20m up to 0.50m depth.

SPT DETAILS

Depth	Type	Incremental blow count/penetration	Casing	Water Depth
		* Seating blows only.		

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	ARIAL CP HEADER
Version	3.04
Revised	15/08/2007

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH601
Sheet 1 of 1

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	17/06/2008
Consultant	White Young Green			Date Completed	17/06/2008

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	SPT N & (U blows)	SPT type & depth	Install-ation
MADE GROUND: Topsoil with rootlets		0.10					
MADE GROUND: Dark brown and black clayey gravelly sand with frequent ash, clinker, glass, metal, brick and electrical components.							
--- below 1.00m becoming slightly clayey.							
		2.20					
Soft light grey mottled brown organic CLAY with occasional reddish brown coarse sand lenses (<10mm thick). (ALLUVIUM)		2.40					
Cable Percussion boring complete at 2.40 m.							

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL CP LOG
Version	3.08
Revised	29/03/2006

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH602
Header

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	17/06/2008
Consultant	White Young Green			Date Completed	17/06/2008

PROGRESS

Date	Time	Hole depth	Casing depth	Water depth	Remarks
17/06/2008	1700	3.40	3.40	2.80	End of BH

BORING DETAILS

Hard Strata from depth	Hard Strata to depth	Chiselling hours	Remarks

CASING

Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.
150	3.40	150	3.40

WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

GENERAL NOTES

1. Hand dug service inpsection pit from GL to 1.20m.
2. Borehole completed 3.40m depth.
3. No samples taken during drilling. Borehole constructed for water monitoring purposes only.
4. 50mm diameter standpipe installed with slotted from 2.40m up to 0.50m depth.

SPT DETAILS

Depth	Type	Incremental blow count/penetration	Casing	Water Depth

* Seating blows only.

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	ARIAL CP HEADER
Version	3.04
Revised	15/08/2007

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH602
Sheet 1 of 1

Contract No.	F15285	Method	Cable Perscussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	17/06/2008
Consultant	White Young Green			Date Completed	17/06/2008

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	SPT N & (U blows)	SPT type & depth	Install-ation
MADE GROUND: Topsoil with rootlets.		0.10					
MADE GROUND: Black and reddish brown slightly clayey slightly gravelly sand with frequent ash, clinker, glass bottles, brick, wire, ceramics, concrete and occasional sandstone gravels and cobbles.		2.40					
MADE GROUND: Light grey slightly gravelly slightly sandy clay with thin strips of bark (<20mm thick). Sand is fine to coarse. Gravel is angular to subrounded fine to coarse.		2.80					
Soft light grey mottled brown organic CLAY. (ALLUVIUM)		3.40					
Cable Percussion boring complete at 3.40 m.							

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL CP LOG
Version	3.08
Revised	29/03/2006

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH603
Header

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	18/06/2008
Consultant	White Young Green			Date Completed	18/06/2008

PROGRESS

Date	Time	Hole depth	Casing depth	Water depth	Remarks
18/06/2008	1130	3.40	3.40	DRY	End of BH

BORING DETAILS

Hard Strata from depth	Hard Strata to depth	Chiselling hours	Remarks

CASING

Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.
150	3.40	150	3.40

WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

GENERAL NOTES

1. Hand dug service inpsection pit from GL to 1.20m.
2. Borehole completed 3.40m depth.
3. No samples taken during drilling. Borehole constructed for water monitoring purposes only.
4. 50mm diameter standpipe installed with slotted from 2.40m up to 0.50m depth.

SPT DETAILS

Depth	Type	Incremental blow count/penetration	Casing	Water Depth

* Seating blows only.

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	ARIAL CP HEADER
Version	3.04
Revised	15/08/2007

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH603
Sheet 1 of 1

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	18/06/2008
Consultant	White Young Green			Date Completed	18/06/2008

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	SPT N & (U blows)	SPT type & depth	Install-ation
MADE GROUND: Topsoil with rootlets.		0.10					
MADE GROUND: Black and reddish brown slightly clayey slightly gravelly sand with frequent ash, clinker, glass bottles, brick, wire, ceramics, concrete and occasional sandstone gravels and cobbles.							
Soft light grey organic CLAY. (ALLUVIUM)		2.40					
Cable Percussion boring complete at 3.40 m.		3.40					

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL CP LOG
Version	3.08
Revised	29/03/2006

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH604
Header

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	18/06/2008
Consultant	White Young Green			Date Completed	18/06/2008

PROGRESS

Date	Time	Hole depth	Casing depth	Water depth	Remarks
18/06/2008	1700	3.30	3.30	DRY	End of BH

BORING DETAILS

Hard Strata from depth	Hard Strata to depth	Chiselling hours	Remarks

CASING

Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.
150	3.30	150	3.30

WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

GENERAL NOTES

1. Initial hand dug inspection pit hit concrete obstruction at 0.40m depth. Borehole moved 2m east.
2. Hand dug service inpsection pit from GL to 1.20m.
2. Borehole completed 3.30m depth.
3. No samples taken during drilling. Borehole constructed for water monitoring purposes only.
4. 50mm diameter standpipe installed with slotted from 2.30m up to 0.50m depth.

SPT DETAILS

Depth	Type	Incremental blow count/penetration	Casing	Water Depth

* Seating blows only.

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	ARIAL CP HEADER
Version	3.04
Revised	15/08/2007

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH604
Sheet 1 of 1

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	18/06/2008
Consultant	White Young Green			Date Completed	18/06/2008

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	SPT N & (U blows)	SPT type & depth	Install-ation
MADE GROUND: Topsoil with rootlets.		0.10					
MADE GROUND: Black and reddish brown slightly clayey slightly gravelly sand with frequent ash, clinker, glass bottles, lead fishing weights and ceramics.							
Frim light brown mottled light brown organic clay with occasional thin strips of bark (<20mm thick). (ALLUVIUM)		2.30					
Cable Percussion boring complete at 3.30 m.		3.30					

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL CP LOG
Version	3.08
Revised	29/03/2006

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH605
Header

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	19/06/2008
Consultant	White Young Green			Date Completed	19/06/2008

PROGRESS

Date	Time	Hole depth	Casing depth	Water depth	Remarks
09/03/2009	1100	3.40	3.40	DRY	End of BH

BORING DETAILS

Hard Strata from depth	Hard Strata to depth	Chiselling hours	Remarks

CASING

Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.
150	3.40	150	3.40

WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

GENERAL NOTES

1. Hand dug service inpsection pit from GL to 1.20m.
2. Borehole completed 3.40m depth.
3. No samples taken during drilling. Borehole constructed for water monitoring purposes only.
4. 50mm diameter standpipe installed with slotted from 2.40m up to 0.50m depth.

SPT DETAILS

Depth	Type	Incremental blow count/penetration	Casing	Water Depth

* Seating blows only.

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	ARIAL CP HEADER
Version	3.04
Revised	15/08/2007

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH605
Sheet 1 of 1

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	19/06/2008
Consultant	White Young Green			Date Completed	19/06/2008

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	SPT N & (U blows)	SPT type & depth	Install-ation
MADE GROUND: Topsoil with rootlets.		0.10					
MADE GROUND: Black and reddish brown slightly clayey slightly gravelly sand with frequent ash, clinker, glass bottles, brick, wire, ceramics and occasional concrete cobbles.							
Soft light grey organic CLAY. (ALLUVIUM)		2.40					
Cable Percussion boring complete at 3.40 m.		3.40					

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL CP LOG
Version	3.08
Revised	29/03/2006

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH606
Header

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	19/06/2008
Consultant	White Young Green			Date Completed	19/06/2008

PROGRESS

Date	Time	Hole depth	Casing depth	Water depth	Remarks
19/06/2008	1330	2.80	2.80	1.90	End of BH

BORING DETAILS

Hard Strata from depth	Hard Strata to depth	Chiselling hours	Remarks

CASING

Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.
150	2.80	150	2.80

WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

GENERAL NOTES

1. Hand dug service inpsection pit from GL to 1.20m.
2. Borehole completed 2.80m depth.
3. No samples taken during drilling. Borehole constructed for water monitoring purposes only.
4. 50mm diameter standpipe installed with slotted from 1.60m up to 0.50m depth.

SPT DETAILS

Depth	Type	Incremental blow count/penetration	Casing	Water Depth

* Seating blows only.

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	ARIAL CP HEADER
Version	3.04
Revised	15/08/2007

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH606
Sheet 1 of 1

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	19/06/2008
Consultant	White Young Green			Date Completed	19/06/2008

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	SPT N & (U blows)	SPT type & depth	Install-ation
MADE GROUND: Reddish brown sandy fine to coarse gravel. (Sub-base)		0.30					
MADE GROUND: Black and reddish brown slightly clayey slightly gravelly sand with frequent ash, clinker, glass bottles, ceramics, concrete fragments.		1.60					
Soft and firm light grey mottled brown organic CLAY. (ALLUVIUM)		2.80					
Cable Percussion boring complete at 2.80 m.							

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL CP LOG
Version	3.08
Revised	29/03/2006

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH607
Header

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	19/06/2008
Consultant	White Young Green			Date Completed	19/06/2008

PROGRESS

Date	Time	Hole depth	Casing depth	Water depth	Remarks
19/06/2008	1730	2.80	2.80	1.80	End of BH

BORING DETAILS

Hard Strata from depth	Hard Strata to depth	Chiselling hours	Remarks

CASING

Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.
150	2.80	150	2.80

WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

GENERAL NOTES

1. Hand dug service inpsection pit from GL to 1.20m.
2. Borehole completed 2.80m depth.
3. No samples taken during drilling. Borehole constructed for water monitoring purposes only.
4. 50mm diameter standpipe installed with slotted from 1.8m up to 0.50m depth.

SPT DETAILS

Depth	Type	Incremental blow count/penetration	Casing	Water Depth
		* Seating blows only.		

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	ARIAL CP HEADER
Version	3.04
Revised	15/08/2007

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH607
Sheet 1 of 1

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	19/06/2008
Consultant	White Young Green			Date Completed	19/06/2008

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	SPT N & (U blows)	SPT type & depth	Install-ation
MADE GROUND: Reddish brown sandy fine to coarse gravel. (Sub-base)		0.30					
MADE GROUND: Black and reddish brown slightly clayey slightly gravelly sand with frequent ash, clinker, glass bottles, ceramics, concrete fragments.		1.80					
Soft and firm light grey mottled brown organic CLAY. (ALLUVIUM)		2.80					
Cable Percussion boring complete at 2.80 m.							

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL CP LOG
Version	3.08
Revised	29/03/2006

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH608
Header

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	20/06/2008
Consultant	White Young Green			Date Completed	20/06/2008

PROGRESS

Date	Time	Hole depth	Casing depth	Water depth	Remarks
20/06/2008	1500	2.90	2.50	1.50	End of BH

BORING DETAILS

Hard Strata from depth	Hard Strata to depth	Chiselling hours	Remarks

CASING

Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.
150	2.90	150	2.50

WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

GENERAL NOTES

1. Hand dug service inpsection pit from GL to 1.20m.
2. Borehole completed 2.90m depth.
3. No samples taken during drilling. Borehole constructed for water monitoring purposes only.
4. 50mm diameter standpipe installed with slotted from 1.90m up to 0.50m depth.

SPT DETAILS

Depth	Type	Incremental blow count/penetration	Casing	Water Depth

* Seating blows only.

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes, chiselling time in hours.

Form	ARIAL CP HEADER
Version	3.04
Revised	15/08/2007

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - CABLE PERCUSSION

Hole ID.
BH608
Sheet 1 of 1

Contract No.	F15285	Method	Cable Percussion	Coordinates	-
Project	Durham Road, Newport				-
		Drilling Rig	Dando 2000	Ground Level	-
Client	Vinci PLC	Driller	DE	Orientation	Vertical
		Logged by	SD	Date Started	20/06/2008
Consultant	White Young Green			Date Completed	20/06/2008

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	SPT N & (U blows)	SPT type & depth	Install-ation
MADE GROUND: Topsoil over reddish brown sandy fine to coarse gravel. (Sub-base)							
		0.35					
MADE GROUND: Black and reddish brown slightly clayey slightly gravelly sand with frequent ash, clinker, glass bottles, brick and wire.							
		1.90					
Soft and firm light grey with brown mottling organic CLAY. (ALLUVIUM)							
		2.90					
Cable Percussion boring complete at 2.90 m.							

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of boring, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL CP LOG
Version	3.08
Revised	29/03/2006

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - ROTARY

Hole ID.
BH604A
Header

Contract No.	F15285	Method	Rotary Openholing	Coordinates	-
Project	Durham Road, Newport	Drilling Rig	Comacchio 205		-
		Driller	TOR	Ground Level	-
Client	Vinci PLC	Logged by	SD	Orientation	Vertical
		Core barrel	DTH	Date Started	19/06/2008
Consultant	White Young Green	Core bit		Date Completed	19/06/2008

PROGRESS

Date	Time	Hole depth	Casing depth	Water depth	Remarks
19/06/2008	1700	14.80	14.00	2.80	End of BH

DRILLING DETAILS

From depth	To depth	Flush type	Flush return	Core diameter
0.00	14.80	Air/Mist	Good	121

CASING

Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.
121	14.80	121	14.00

WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

GENERAL NOTES

1. Hand dug service inpsection pit from GL to 1.20m.
2. Borehole completed 14.80m depth.
3. No samples taken during drilling. Borehole constructed for water monitoring purposes only.
4. 50mm diameter standpipe installed with slotted from 14.10m up to 12.00m depth.

SPT DETAILS

Depth	Type	Incremental blow count/penetration	Casing	Water Depth

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3.05
Revised	21/07/2005

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - ROTARY

Hole ID.
BH604A
Sheet 1 of 2

Contract No.	F15285	Method	Rotary Openholing	Coordinates	-
Project	Durham Road, Newport	Drilling Rig	Comacchio 205		-
		Driller	TOR	Ground Level	-
Client	Vinci PLC	Logged by	SD	Orientation	Vertical
		Core barrel	DTH	Date Started	19/06/2008
Consultant	White Young Green	Core bit		Date Completed	19/06/2008

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD		SPT N & depth	Install-ation
MADE GROUND: Topsoil with rootlets.		0.10								
MADE GROUND: Reddish brown clayey fine to coarse gravel. (Sub-base).		0.40								
MADE GROUND: Dark grey and black slightly clayey slightly gravelly sand with frequent ash, glass, ceramics, metal railway nail and other metal fragments.										
Soft becoming firm light grey mottled brown organic CLAY. (ALLUVIUM)		3.20								

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.08
Revised	21/07/2005

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - ROTARY

Hole ID.
BH604A
Sheet 2 of 2

Contract No.	F15285	Method	Rotary Openholing	Coordinates	-
Project	Durham Road, Newport	Drilling Rig	Comacchio 205		-
		Driller	TOR	Ground Level	-
Client	Vinci PLC	Logged by	SD	Orientation	Vertical
		Core barrel	DTH	Date Started	19/06/2008
Consultant	White Young Green	Core bit		Date Completed	19/06/2008

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD		SPT N & depth	Install-ation
Soft becoming firm light grey mottled brown organic CLAY. (ALLUVIUM)										
		11.80								
Reddish brown SANDSTONE. (RAGLAN MARL)										
		14.80								
Rotary drilling complete at 14.80 m.										

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.08
Revised	21/07/2005

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - ROTARY

Hole ID.
BH606A
Header

Contract No.	F15285	Method	Rotary Openholing	Coordinates	-
Project	Durham Road, Newport	Drilling Rig	Comacchio 205		-
		Driller	TOR	Ground Level	-
Client	Vinci PLC	Logged by	SD	Orientation	Vertical
		Core barrel	DTH	Date Started	20/06/2008
Consultant	White Young Green	Core bit		Date Completed	20/06/2008

PROGRESS

Date	Time	Hole depth	Casing depth	Water depth	Remarks
20/06/2008	1700	13.20	1.20	4.60	End of BH

DRILLING DETAILS

From depth	To depth	Flush type	Flush return	Core diameter
0.00	13.20	Air/Mist	Good	121

CASING

Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.
121	13.20	121	1.20

WATER STRIKES

Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow

GENERAL NOTES

1. Hand dug service inpsection pit from GL to 1.20m.
2. Borehole completed 13.20m depth.
3. No samples taken during drilling. Borehole constructed for water monitoring purposes only.
4. 50mm diameter standpipe installed with slotted from 13.00m up to 10.00m depth.

SPT DETAILS

Depth	Type	Incremental blow count/penetration	Casing	Water Depth

NOTES: All depths in metres, all diameters in millimetres, water strike rise time in minutes.

Form	ARIAL ROTARY HEADER
Version	3.05
Revised	21/07/2005

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - ROTARY

Hole ID.
BH606A
Sheet 1 of 2

Contract No.	F15285	Method	Rotary Openholing	Coordinates	-
Project	Durham Road, Newport	Drilling Rig	Comacchio 205		-
		Driller	TOR	Ground Level	-
Client	Vinci PLC	Logged by	SD	Orientation	Vertical
		Core barrel	DTH	Date Started	20/06/2008
Consultant	White Young Green	Core bit		Date Completed	20/06/2008

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD		SPT N & depth	Install-ation
MADE GROUND: Topsoil		0.10								
MADE GROUND: Reddish brown sandy fine to coarse gravel. (Sub-base)		0.30								
MADE GROUND: Black and reddish brown slightly clayey slightly gravelly sand with frequent ash, clinker, glass bottles, brick, wire, ceramics, concrete and occasional sandstone gravels and cobbles.										
Soft becoming firm light brown organic CLAY. (ALLUVIUM)		1.70								

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.08
Revised	21/07/2005

Norwest Holst Soil Engineering Ltd.

BOREHOLE LOG - ROTARY

Hole ID.
BH606A
Sheet 2 of 2

Contract No.	F15285	Method	Rotary Openholing	Coordinates	-
Project	Durham Road, Newport	Drilling Rig	Comacchio 205		-
		Driller	TOR	Ground Level	-
Client	Vinci PLC	Logged by	SD	Orientation	Vertical
		Core barrel	DTH	Date Started	20/06/2008
Consultant	White Young Green	Core bit		Date Completed	20/06/2008

Description of Strata	Legend	Drilled Length	Datum Level	Coring and Sampling	TCR	SCR	RQD		SPT N & depth	Install-ation
Reddish brown SANDSTONE. (RAGLAND MARL)		10.00								
Rotary drilling complete at 13.20 m.		13.20								

NOTES: All depths in metres, all diameters in millimetres.
See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL ROTARY LOG
Version	3.08
Revised	21/07/2005

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP616A
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	03/10/2008
		Logged by	SD	Date Completed	03/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling		Remarks
MADE GROUND: Topsoil with rootlets.		0.10				
MADE GROUND: Dark brown very clayey gravell sand with frequent cobbles and boulders of concrete and brick and with occasional ash, ceramic and glass.				1	1.00	
--- below 1.10m with drums but no PCB contamination.		1.40				
Soft and firm light grey mottled brown organic CLAY. (ALLUVIUM)		1.60				
Trial pit complete at 1.60 m.						

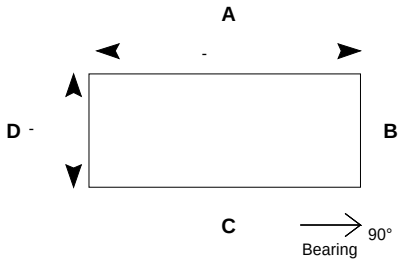
Stability: Localised spalling

Shoring: NA

Groundwater:

Remarks:
1. Trial pit contained within remediation area.
2. Soil samples A, B, C, E1, E2, S01.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP616
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	04/08/2008
		Logged by	SD	Date Completed	03/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Dark grey and black slightly clayey gravelly sand with frequent ash, glass and ceramics.					
--- below 1.50m with drums containing potential PCBs.					
		2.00			
Soft and firm light grey and brown organic CLAY. (ALLUVIUM)					
		2.20			
Trial pit complete at 2.20 m.					

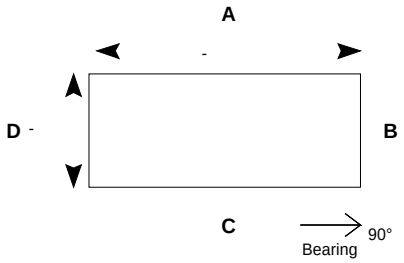
Stability: Localised spalling

Shoring: NA

Groundwater:

Remarks:
1. Trial pit contained within area of remediation.
2. Moderate hydrocarbon odour (PCB)
3. Soil sample taken B, C, D, E1, E2, E3, S01, S02, S03, S04, G01, G02, G02A, G03, G04, G05.
4. Water sample W01 taken from standing water.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP634
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	10/10/2008
		Logged by	SD	Date Completed	10/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Stone Fill					
		0.30			
MADE GROUND: Brown and black gravelly sand with frequent ash, red brick, corregated iron, rubber, concrete slabs and large pockets of sandy clay.					
--- below 1.50m with drums and potentially containing PCBs.					
		2.00			
Firm light grey mottled brown organic CLAY. (ALLUVIUM)		2.10			
Trial pit complete at 2.10 m.					

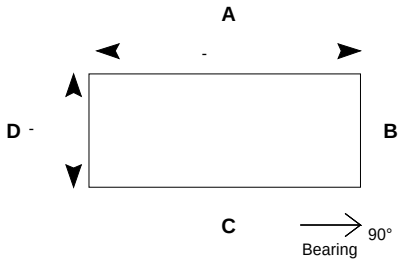
Stability: Localised spalling

Shoring: NA

Groundwater:

Remarks:
1. Trial pit contained within remediation area.
2. Moderate hydrocarbon odour (PCB)
3. Soil samples taken A, B, D, E

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP635A
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	10/10/2008
		Logged by	SD	Date Completed	10/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Reddish brown clayey fine to coarse gravel. (Sub-Base)		0.30			
MADE GROUND: red brick with bands of red sandy clay (<200mm). --- from 0.35m to 2.20m on Face B3 and B4 black silty gravelly sand with frequent ash.		1.00			
MADE GROUND: Dark grey and black slightly clayey gravelly sand with frequent ash and large angular boulders of concrete. --- below 1.00m with drums containing potential PCBs.		2.20			
Soft becoming firm light grey mottled brown organic CLAY. (ALLUVIUM)		2.30			
Trial pit complete at 2.30 m.					

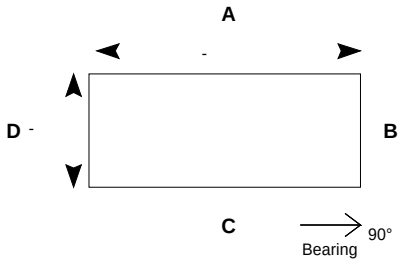
Stability: Localised spalling

Shoring: NA

Groundwater:

Remarks:
1. Trial pit contained within remediation area.
2. Soil samples taken A, B1, B2, B3, B4, D, E1, E2, E3, E4, E5, S01, S02, S03, S04, S05, S06, S07, S08, S09, S10, S11, S12, S13, S14, S15, G01, G02, G03, G04, G05, G06, G07 (S05 and S06 duplicates).
3. Water sample W01 taken from standing water.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP636C
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	10/10/2008
		Logged by	SD	Date Completed	10/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Red and black clayey sand. (Imported Fill)		0.10			
MADE GROUND: Reddish brown clayey fine to coarse gravel. (Sub-Base)		0.30			
MADE GROUND: Black gravelly sand with frequent ash, glass and occasional bands of grey clay (<300mm).					
--- below 1.50m with drums potentially containing PCB.					
Soft light grey mottled brown organic CLAY. (ALLUVIUM)		2.00			
Trial pit complete at 2.10 m.		2.10			

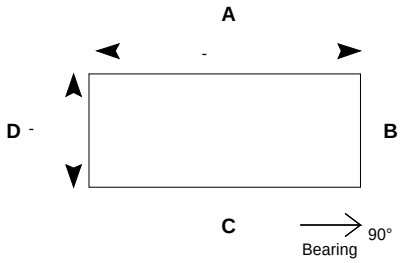
Stability: Localised spalling

Shoring: NA

Groundwater: Water standing at 2.00m depth.

Remarks:
1. Trial pit contained within remediation area.
2. Moderate hydrocarbon odour (PCB)
3. Soil samples taken A, B, C, D, E, S01, S02.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP636D
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	10/10/2008
		Logged by	SD	Date Completed	10/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Reddish brown sandy clay with rootlets.		0.10			
MADE GROUND: Reddish brown clayey fine to coarse gravel. (Sub-Base)		0.35			
MADE GROUND: Black gravelly sand with frequent ash, glass bottles and pockets of red clayey sand.					
Light grey mottled brown organic CLAY. (ALLUVIUM)		2.10			
Trial pit complete at 2.20 m.		2.20			

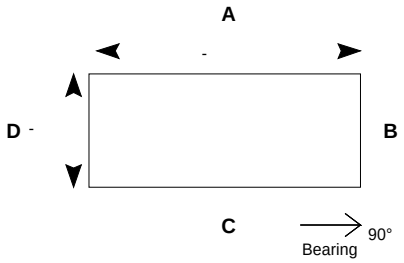
Stability: Localised spalling

Shoring: NA

Groundwater: Water standing at 2.00m depth.

Remarks:
1. Trial pit contained within remediation area.
2. Soil samples taken B, C, D, E, S01, S02.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

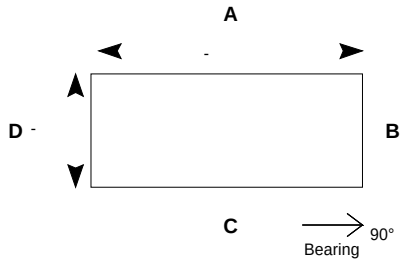
Hole ID.
TP636
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavator	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	27/10/2008
		Logged by	SD	Date Completed	27/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Black and dark brown very clayey gravelly sand with frequent ash, metal, glass and occasional timber.					
		2.10			
Trial pit complete at 2.10 m.					

Stability	Spalling
Shoring	NA
Groundwater	Seepage at base of pit.
Remarks	1. Trial pit contained within remediation area. 2. Soil samples taken A1, A2, B2, B2, C, D, E, S01

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP655A
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	04/07/2008
		Logged by	SD	Date Completed	10/07/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling		Remarks
MADE GROUND: Reddish brown clayey fine to coarse gravel. (Sub Base)						
		0.40				
MADE GROUND: Dark grey and black slightly clayey gravelly sand with frequent ash, glass and ceramics. Locally with large pockets (>400mm) of black ashy sand. --- between 0.70m to 1.00m with orange brown gravelly clay pockets on Face A and B. --- below 1.50m to 1.90m with drums containing potential PCBs.						
		1.90				
Soft and firm light grey mottled brown organic CLAY. (ALLUVIUM)		2.20		EW0	2.20	
Trial pit complete at 2.20 m.						

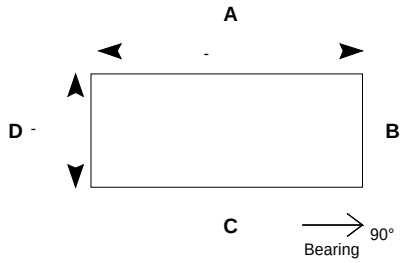
Stability: Local spalling

Shoring: NA

Groundwater: Groundwater standing at 1.85m

Remarks:
1. Trial pit contained within remediation area.
2. Moderate hydrocarbon odour (PCB).
3. Soil samples taken Face A, Face B, Face C, Face D, Face E, S01, S02, S03, S01A, S02A, S02B, S02C, S04A, S04B, S0B09, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28.
4. Water samples taken W01 from standing water at 2.20m.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP656A
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	22/10/2008
		Logged by	SD	Date Completed	22/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Topsoil with rootlets.		0.10			
MADE GROUND: Reddish brown silty gravel with bands of brown gravelly clay.		0.40			
MADE GROUND: Dark grey and black slightly clayey gravelly sand with frequent ash and occasional glass. With occasional pockets of light grey clay and orangish brown gravelly clay. --- between 1.20m and 1.60m with frequent roots and rootlets on Face A and B. --- below 1.50m with possible drums.					
		2.10			
Trial pit complete at 2.30 m.					

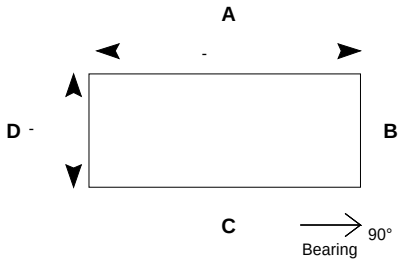
Stability: Spalling during excavation

Shoring: NA

Groundwater: Water standing at 2.00m

Remarks:
1. Trial pit contained within remediation area.
2. Soil samples taken A, B, C, D, E, S01, S02.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP656B
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	10/10/2008
		Logged by	SD	Date Completed	10/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Reddish brown silty gravel with bands of brown gravelly clay.		0.30			
MADE GROUND: Dark grey and black slightly clayey gravelly sand with frequent ash and occasional glass. With occasional pockets of light grey clay and orangish brown gravelly clay.					
Firm light grey mottled brown organic CLAY. (ALLUVIUM)		2.30			
Trial pit complete at 2.40 m.		2.40			

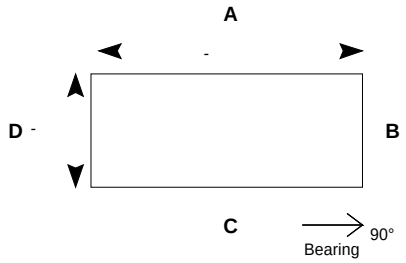
Stability Spalling

Shoring NA

Groundwater Standing at 2.00m

Remarks 1. Trial pit within remediation area.
2. Soil samples taken A, B, D, E, S01, S01a, S01b, S02.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP656C
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	10/10/2008
		Logged by	SD	Date Completed	10/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Reddish brown silty gravel with bands of brown gravelly clay.		0.30			
MADE GROUND: Dark grey and black slightly clayey gravelly sand with frequent ash and occasional glass.		2.30			
Firm light grey mottled brown organic CLAY. (ALLUVIUM)		2.40			
Trial pit complete at 2.40 m.					

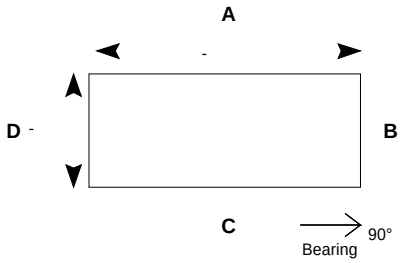
Stability: Spalling

Shoring: NA

Groundwater: Groundwater standing at approximately 2.00m.

Remarks:
1. Trial pit contained within remediation area.
2. Soil samples taken B, C, D, E, S01, S01a, S01b, S01c, S02.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP656
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavator	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	28/10/2008
		Logged by	SD	Date Completed	28/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Black and dark brown with brown pockets very clayey gravelly sand with frequent ash, metal, glass and occasional timber.					
--- below 1.50m with drums potentially containing PCBs.					
		2.10			
Trial pit complete at 2.10 m.					

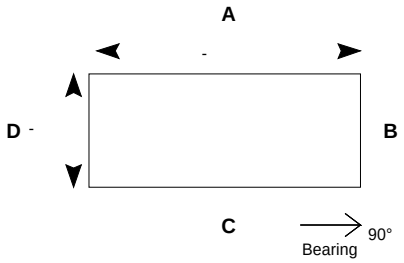
Stability Spalling

Shoring NA

Groundwater Seepage at base of pit.

Remarks
1. Trial pit contained within remediation area.
2. Moderate hydrocarbon odour (PCB)
3. Soil samples taken B, C, D, E

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP902
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	25/06/2008
		Logged by	SD	Date Completed	24/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling		Remarks
MADE GROUND: Grass over topsoil with rootlets.		0.15				
MADE GROUND: Firm locally friable dark brown sandy gravelly CLAY with occasional bricks, glass, metal fragments, concrete, ceramic tiles and pavours, and wire. --- from 0.50m down to 2.00m with frequent bricks, concrete and building rubble including asphalt.						
--- from 2.00m to 2.40m possible asbestos in Face D. --- below 2.00m with drums containing possible PCB's.				ES0 ES0	2.00 - 2.40 2.00 - 2.40	
Soft light grey mottled brown organic CLAY. (ALLUVIUM)		2.80 3.00				
Trial pit complete at 3.00 m.						

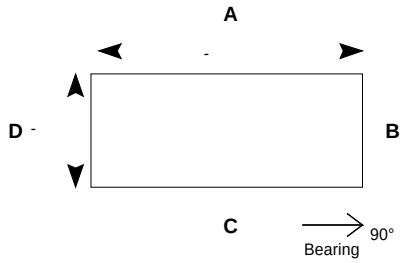
Stability: Spalling during excavation

Shoring: NA

Groundwater: Water standing at 2.80m depth

Remarks:
1. Trial pit contained within remediation area.
2. Moderate hydrocarbon odour (PCB).
3. Samples collected A1, A2, A3, B1, B2, C, D, E1, E2, E3, E4, E5, S01, S02, S03, S04, S05, S06, S07, (S03 and S04 duplicates), A01, A02.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP905
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	04/08/2008
		Logged by	SD	Date Completed	10/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Topsoil with rootlets.		0.10			
MADE GROUND: Reddish brown silty fine to coarse gravel. (Sub Base)		0.30			
MADE GROUND: Black silt with abundant grey bricks.		0.70			
MADE GROUND: Dark grey and black slightly clayey gravelly sand with frequent ash and occasional glass, metal pipe, concrete blocks and boulders. With occasional pockets of brown silty sandy clay. --- below 1.50m on Face B with orangish brown clay pockets. --- below 1.60m with drums containing potential PCBs.		2.00			
Firm light grey mottled brown organic CLAY. (ALLUVIUM)		2.20			
Trial pit complete at 2.20 m.					

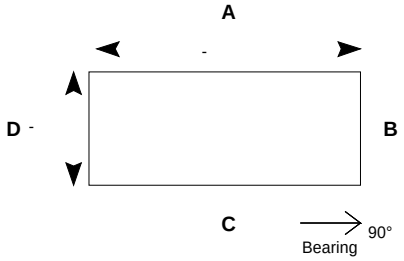
Stability: Localised spalling

Shoring: NA

Groundwater: Water standing at 2.10m.

Remarks:
1. Trial pit contained within the remediation area.
2. Moderate hydrocarbon odour (PCB).
3. Soil sample taken B1, B2, B3, C, D, E2, E3, S01, S02, S03, G01, G02, G03, G04, G05, G06, G07.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP908
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	26/09/2008
		Logged by	SD	Date Completed	03/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Topsoil with rootlets.		0.10			
MADE GROUND: Reddish brown clayey fine to coarse gravel. (Sub-Base)		0.20			
MADE GROUND: Black and dark brown clayey gravelly sand with frequent ash, metal and glass.		1.00			
MADE GROUND: Black sandy gravelly clay with frequent ash and glass. With pockets of orangish brown clay. --- between 1.50m and 2.00 Face D plastic coated box (500mm x 100mm x 100m) containing solid bitumen glass like material.		2.00			
Soft becoming firm light grey mottled brown organic CLAY. (ALLUVIUM)		2.10			
Trial pit complete at 2.10 m.					

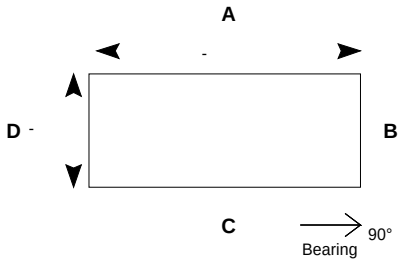
Stability Spalling

Shoring NA

Groundwater Water standing at 2.00m.

Remarks
1. Trial pit contained within remediation area.
2. Moderate hydrocarbon odour (PCB)
3. Soil samples taken A, B1, E1, D, E2, E3, S02, S02a, S02b, S02c.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP910
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	29/10/2008
		Logged by	SD	Date Completed	29/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Black with dark brown with brown pockets very clayey gravelly sand with frequent ash, metal, glass occasional timber.					
--- below 1.50m with multiple drums potentially containing PCBs.					
		2.50			
Soft becoming firm light grey with brown mottling organic CLAY. (ALLUVIUM)		2.70			
Trial pit complete at 2.70 m.					

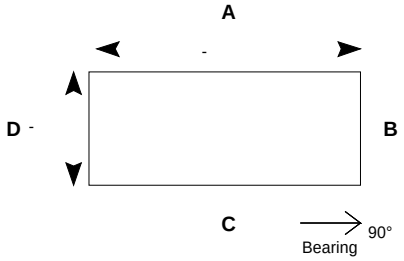
Stability: Spalling

Shoring: NA

Groundwater: Water standing at 2.2m. Water being pumped into pit from adjacent trial pit.

Remarks:
1. Trial pit contained within remediation area.
2. Moderate hydrocarbon odour (PCB).
3. Soil samples taken B, C, D, E1, E2, S01, S02, S03, S04.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP911
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	27/06/2008
		Logged by	SD	Date Completed	27/06/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Topsoil with rootlets.		0.30			
MADE GROUND: Dark brown and occasionally black silty gravelly sand with abudnant bricks and reinforcing wire (10mm diameter) and occasional ash, concrete bounders. No drums noted.		1.50			
Trial pit complete at 1.50 m.					

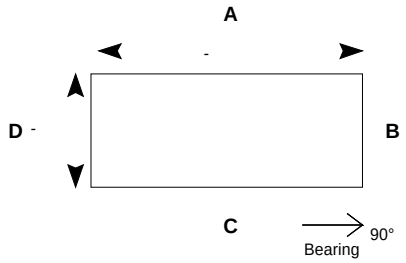
Stability: Spalling

Shoring: NA

Groundwater: None encountered during excavation

Remarks:
1. Trial pit contained within remediation area.
2. Soil sample taken from Face E.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP912
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Exacavator	Ground Level	-
Client	Vinci PLC			Date Started	24/06/2008
		Logged by	SD	Date Completed	04/07/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling		Remarks
MADE GROUND: Black and occasionally dark brown silty gravelly sand with frequent ash, glass, ceramics and occasional bricks and reinforcing bar (10mm diameter).						
--- below 2.10m to 2.40m with drums containing potential PCBs.				EW0	2.30 - 2.40	
		2.40				
Soft light grey mottled brown organic CLAY. (ALLUVIUM)		2.45				
Trial pit complete at 2.45 m.						

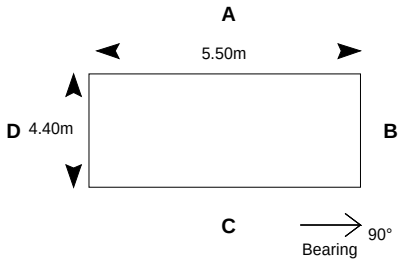
Stability: Spalling during excavation

Shoring: NA

Groundwater: Seepage at 2.00m with water standing at 2.10m. Thick sheen on water.

Remarks:
1. Trial pit contained within remediation area.
2. Strong hydrocarbon odour (PCB)
3. Soil samples taken Face A, Face B, Face C, Face D, Face E, S01 and S02.
4. Water sample taken from standing water W01.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP913
Sheet 1 of 1

Contract No.	F15285	Method	Machine Exacavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	04/08/2008
		Logged by	SD	Date Completed	19/09/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Topsoil with rootlets.		0.30			
MADE GROUND: Black and dark brown silty clayey gravelly sand with frequents pockets and bands of black sandy clay and dark greenish brown gravelly clay. With frequent pockets of ash and bricks occasional concrete boulders. --- below 1.50m with drums potentially containing PCBs.		2.00			
Soft light grey mottled brown organic CLAY. (ALLUVIUM)		2.10			
Trial pit complete at 2.10 m.					

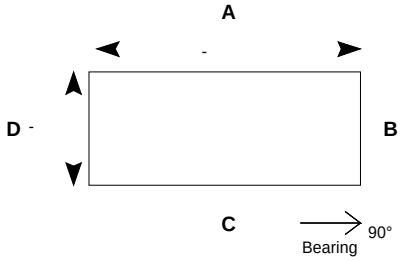
Stability Spalling

Shoring NA

Groundwater Water standing at 2.00m depth. Slight sheen on surface.

Remarks
1. Trial pit contained within remediation area.
2. Moderate hydrocarbon odour (PDB).
3. Soil sample taken Face A, Face B, Face C, Face D, Face E1, Face E2, S01, S02, S03, S04, S05, S06, G01, G02, G03, G04, G05 (G01 to G04 duplicates).

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP914
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	24/10/2008
		Logged by	SD	Date Completed	24/10/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling		Remarks
MADE GROUND: Reddish brown clayey fine to coarse gravel. (Sub-Base)		0.20				
MADE GROUND: Black gravelly sand with frequent ash, glass, brick , reinforcing bar and concrete boulder.						
--- below 1.50m with drums containing potential PCBs.				ES0	2.00 - 2.20	
Soft and firm light grey and brown organic CLAY. (ALLUVIUM)		2.80				
Trial pit complete at 3.00 m.		3.00				

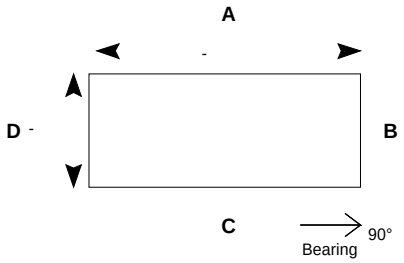
Stability: Localised spalling

Shoring: NA

Groundwater: Water standing at 2.60m. Red brown sheen on surface.

Remarks:
1. Trial pit contained within remediation area.
2. Strong hydrocarbon odour (PCB).
3. Soil samples A1, A2, C, D1, D2, D3, D4, E1, E2, E3, E4, S01, S02, S03, S04, S05, S06, S07, S08, S09, SS01, G01, G02.
4. Water sample W01 taken from standing water.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Hole ID.
TP915
Sheet 1 of 1

Contract No.	F15285	Method	Machine Excavated	Coordinates	-
Project	Durham Road, Newport				-
		Equipment	360 Excavator	Ground Level	-
Client	Vinci PLC			Date Started	10/11/2008
		Logged by	SB	Date Completed	10/11/2008
Consultant	White Young Green				

Description of Strata	Legend	Depth Below G.L.	Datum Level	Sampling	Remarks
MADE GROUND: Reddish brown clayey fine to coarse gravel. (Sub-Base)		0.30			
MADE GROUND: Black silty gravelly sand with frequent ash, glass and ceramic.					
Soft and firm light grey mottled brown organic CLAY. (ALLUVIUM)		2.00			
Trial pit complete at 2.20 m.		2.20			

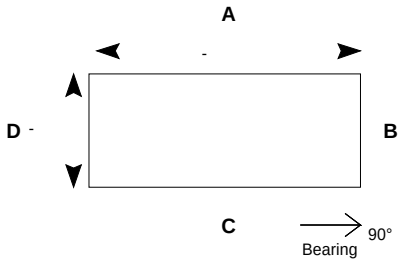
Stability: Localised spalling

Shoring: NA

Groundwater: Water standing at 2.00m depth.

Remarks:
1. Trial pit contained within remediation area.
2. Moderate hydrocarbon odour (PCB)
3. Soil samples taken A, B, C, D, E, S01.

Sketch Plan of Trial Pit



NOTES: All depths in metres, all soil strengths in kPa.
See legend sheet for key to symbols and abbreviations.
All bearings given relate to magnetic North

Form	ARIAL TP LOG
Version	3.05
Revised	15/02/2006

Appendix H Soil Validation Samples Audit and Prefix Identification

F15285 –Durham Road, Newport : Sample Prefix Identification List

Water Samples:

BH *601* Purged Ground Water from Borehole Installations.
GWT *01* Water Sampled from the Ground Water Treatment tanks.
SM *01* Surface Water from taken from the River Reen at designated Surface Monitoring Points.
W *01* Water Samples taken directly from Trial Pits, usually standing water.

Trial Pit - Face Validation:

A/A1 North Face, Soil Sampled commonly from depths of 1.50m to 2.00m.
B/B1 East Face, Soil Sampled commonly from depths of 1.50m to 2.00m.
C/C1 South Face, Soil Sampled commonly from depths of 1.50m to 2.00m.
D/D1 West Face, Soil Sampled commonly from depths of 1.50m to 2.00m.
E/E1 Base of Pit, Samples taken from the Alluvium.

Trial Pit – Excavated Material:

A*01* Samples taken to test for suspected Asbestos content.
B*01* Samples taken from 1 Ton Bulk Bags.
D*01* Material Contained in Drums for Incineration.
ES*01* Environmental Sample from Bund Material.
G*01* Group Sample from every 10 1 Ton Bulk Bags. G01 = Bags 1-10.
S*01* Material not for incineration Stock Piled for PCB Testing.
S*01***a** Material not for incineration Stock Piled for PCB Testing. Stockpile that has failed parameters and has been sub sampled.
TP00 Material from trial pits, placed in main Stock Pile and Potentially being sent to Landfill.

Crushed Stone Samples:

B*01* Bulk Bag of Crushed Stone on Site either Stock Piled or Laid Stone.
CE Cemex, Sample sent from Quarry.
CS*01* Crushed Stone Samples taken from either Stock Piled or Laid Stone.
HG Hanson, Grit Stone Sample sent from Quarry.
HL Hanson, Sample sent from Livox Quarry.
HM Hanson, Sample sent from Machen Quarry.
L Lafarge, Quarry Stone.
LF Lafarge, Sample sent from Quarry.
MP Further Samples sent from Quarries. MP = Matthew Phillips.
TA Tarmac, Recycled Material

Topsoil:

S*01*- Topsoil Topsoil samples received from suppliers and sent for testing

Trial Pit	Stockpile / Face ID	Source Material	Date Sampled	Results	Comment
TP616	S01	Surface	29 Jul 08	Pass	Added to general stockpile
TP616	G01	Base	04 Aug 08	Pass	Added to general stockpile
TP616	G02	Base	04 Aug 08	FAIL	To split and resample
TP616	G03	Base	04 Aug 08	FAIL	Required to be removed from site.
TP616	G04	Base	05 Aug 08	FAIL	Required to be removed from site.
TP616	G02a	Base	12 Aug 08	Pass	Added to general stockpile
TP616	S02	Surface	22 Sep 08	Pass	Added to general stockpile
TP616	S03	Surface	22 Sep 08	Pass	Added to general stockpile
TP616	S04	Base	22 Sep 08	Pass	Added to general stockpile
TP616	D	Face	26 Sep 08	Pass	Suitable for backfilling
TP616	E3	Face	26 Sep 08	Pass	Suitable for backfilling
TP616	G05	Base	05 Aug 08	FAIL	Required to be removed from site.
TP616	B	Face	23 Sep 08	Pass	Suitable for backfilling
TP616	C	Face	19 Sep 08	Pass	Suitable for backfilling
TP616	E1	Face	23 Sep 08	Pass	Suitable for backfilling
TP616	E2	Face	19 Sep 08	Pass	Suitable for backfilling
TP616a	S01	Surface	23 Sep 08	Pass	Added to general stockpile
TP634	A	Face	03 Oct 08	Pass	Suitable for backfilling
TP634	B	Face	03 Oct 08	Pass	Suitable for backfilling
TP634	D	Face	03 Oct 08	Pass	Suitable for backfilling
TP634	E	Face	03 Oct 08	Pass	Suitable for backfilling
TP635a	S01	Surface	11 Jul 08	Pass	Added to general stockpile
TP635a	S02	Surface	11 Jul 08	FAIL	Retested 25/7/08
TP635a	S03	Surface	11 Jul 08	Pass	Added to general stockpile
TP635a	S07	Base	11 Jul 08	Pass	Added to general stockpile
TP635a	S05	Surface	11 Jul 08	Pass	Backfilled to TP655a
TP635a	S06	Surface	11 Jul 08	Pass	Added to general stockpile

Trial Pit	Stockpile / Face ID	Source Material	Date Sampled	Results	Comment
TP635A	S04	Surface	21 Jul 08	Pass	Added to general stockpile
TP635A	S02	Retest	25 Jul 08	FAIL	Retest of sample taken 11/07/08. Required to be removed from site.
TP635a	G01	Base	30 Jul 08	FAIL	Required to be removed from site.
TP635a	G02	Base	30 Jul 08	FAIL	Required to be removed from site.
TP635a	G03	Base	30 Jul 08	FAIL	Required to be removed from site.
TP635a	G04	Base	30 Jul 08	FAIL	Required to be removed from site.
TP635a	G05	Base	30 Jul 08	Pass	Added to general stockpile
TP635a	G06	Base	04 Aug 08	FAIL	Required to be removed from site.
TP635a	G07	Base	04 Aug 08	FAIL	Required to be removed from site.
TP635a	S05	Surface	03 Oct 08	Pass	Added to general stockpile
TP635a	S06	Surface	03 Oct 08	Pass	Added to general stockpile
TP635a	S07	Surface	03 Oct 08	Pass	Added to general stockpile
TP635a	S08	Surface	03 Oct 08	Pass	Added to general stockpile
TP635a	S09	Surface	03 Oct 08	Pass	Added to general stockpile
TP635a	S10	Surface	03 Oct 08	Pass	Added to general stockpile
TP635a	S11	Surface	03 Oct 08	Pass	Added to general stockpile
TP635a	S12	Surface	03 Oct 08	Pass	Added to general stockpile
TP635a	S13	Surface	03 Oct 08	Pass	Added to general stockpile
TP635a	S14	Surface	03 Oct 08	Pass	Added to general stockpile
TP635a	A	Face	03 Oct 08	Pass	Suitable for backfilling
TP635a	B1	Face	03 Oct 08	Pass	Suitable for backfilling
TP635a	B2	Face	03 Oct 08	Pass	Suitable for backfilling
TP635a	B3	Face	03 Oct 08	Pass	Suitable for backfilling
TP635a	B4	Face	03 Oct 08	Pass	Suitable for backfilling
TP635a	E1	Face	03 Oct 08	Pass	Suitable for backfilling
TP635a	E2	Face	03 Oct 08	Pass	Suitable for backfilling

Trial Pit	Stockpile / Face ID	Source Material	Date Sampled	Results	Comment
TP635a	E3	Face	03 Oct 08	Pass	Suitable for backfilling
TP635a	E4	Face	03 Oct 08	Pass	Suitable for backfilling
TP635a	S15	Base	14 Oct 08	Pass	Added to general stockpile
TP635a	D	Face	21 Oct 08	Pass	Suitable for backfilling
TP635a	E5	Face	21 Oct 08	Pass	Suitable for backfilling
TP636	S01	Surface	27 Oct 08	Pass	Added to general stockpile
TP636c	A	Face	09 Sep 08	Pass	Suitable for backfilling
TP636c	B	Face	09 Sep 08	Pass	Suitable for backfilling
TP636c	D	Face	09 Sep 08	Pass	Suitable for backfilling
TP636c	E	Face	09 Sep 08	FAIL	Sample retested = Pass, suitable for backfilling
TP636c	S01	Surface	09 Sep 08	Pass	Suitable for backfilling
TP636c	S02	Base	09 Sep 08	Pass	Sample smashed in transit, resampled 13/10/08
TP636d	B	Face	09 Sep 08	Pass	Suitable for backfilling
TP636d	C	Face	09 Sep 08	Pass	Suitable for backfilling
TP636d	D	Face	09 Sep 08	Pass	Suitable for backfilling
TP636d	E	Face	09 Sep 08	Pass	Suitable for backfilling
TP636d	S01	Surface	09 Sep 08	Pass	Suitable for backfilling
TP636d	S02	Base	09 Sep 08	Pass	Suitable for backfilling
TP655a	S01	Surface	01 Jul 08	FAIL	To split and resample
TP655a	S02	Base	01 Jul 08	FAIL	To spilt and resample
TP655a	S03	PCB MATERIAL	01 Jul 08		Suspected PCB material (result indicates samples is positive for PCBs)
TP655a	S04	Base	10 Jul 08	FAIL	To spilt and resample
TP655a	S02a	Retest	29 Jul 08	FAIL	Retest of S02 sample taken 01/07/08
TP655a	S02b	Retest	29 Jul 08	FAIL	Retest of S02 sample taken 01/07/08
TP655a	S02c	Retest	29 Jul 08	FAIL	Retest of S02 sample taken 01/07/08

Trial Pit	Stockpile / Face ID	Source Material	Date Sampled	Results	Comment
TP655a	S01a	Retest	29 Jul 08	FAIL	Retest of S01 sample taken 01/07/08
TP655a	S04a	Retest	29 Jul 08	FAIL	Retest of S04 sample taken 01/07/08
TP655a	S04b	Retest	29 Jul 08	FAIL	Retest of S04 sample taken 01/07/08
TP656a	A	Face	24 Oct 08	Pass	Suitable for backfilling
TP656a	B	Face	24 Oct 08	Pass	Suitable for backfilling
TP656a	C	Face	24 Oct 08	Pass	Suitable for backfilling
TP656a	D	Face	24 Oct 08	Pass	Suitable for backfilling
TP656a	E	Face	24 Oct 08	Pass	Suitable for backfilling
TP656a	S01	Surface	27 Oct 08	Pass	Added to general stockpile
TP656a	S02	Surface	27 Oct 08	Pass	Added to general stockpile
TP656b	A	Face	10 Oct 08	Pass	Suitable for backfilling
TP656b	B	Face	10 Oct 08	Pass	Suitable for backfilling
TP656b	D	Face	10 Oct 08	Pass	Suitable for backfilling
TP656b	E	Face	10 Oct 08	Pass	Suitable for backfilling
TP656b	S01	Surface	13 Oct 08	FAIL	To split and resample
TP656b	S02	Surface	13 Oct 08	Pass	Added to general stockpile
TP656b	S01a	Surface	21 Oct 08	Pass	Retest of samples taken 13/10/08. Added to general stockpile
TP656b	S01b	Surface	21 Oct 08	FAIL	Retest of samples taken 13/10/08. Required to be removed from site
TP656b	S01c	Surface	21 Oct 08	FAIL	Retest of samples taken 13/10/08. Required to be removed from site
TP656c	B	Face	10 Oct 08	Pass	Suitable for backfilling
TP656c	C	Face	10 Oct 08	Pass	Suitable for backfilling
TP656c	D	Face	10 Oct 08	Pass	Suitable for backfilling
TP656c	E	Face	10 Oct 08	Pass	Suitable for backfilling
TP656c	S01	Base	13 Oct 08	FAIL	To spilt and resample
TP656c	S02	Surface	13 Oct 08	Pass	Added to general stockpile
TP656c	S01a	Base	21 Oct 08	Pass	Retest of samples taken 13/10/08. Added to general stockpile

Trial Pit	Stockpile / Face ID	Source Material	Date Sampled	Results	Comment
TP656c	S01b	Base	21 Oct 08	FAIL	Retest of samples taken 13/10/08. Required to be removed from site
TP902	S03	PCB MATERIAL	01 Jul 08		Suspected PCB material (result indicates samples is positive for PCBs)
TP902	S04	PCB MATERIAL	01 Jul 08		Suspected PCB material (result indicates samples is positive for PCBs)
TP902	S01	Surface	11 Jul 08	Pass	Added to general stockpile
TP902	S02	Base	11 Jul 08	Pass	Added to general stockpile
TP902	S03	Surface	11 Jul 08	Pass	Note duplicate ID for sample (added to general stockpile)
TP902	S04	Base	11 Jul 08	Pass	Note duplicate ID for sample (added to general stockpile)
TP902	S05	Base	29 Sep 08	FAIL	Required to be removed from site.
TP902	A2	Face	21 Oct 08	Pass	Suitable for backfilling
TP902	A3	Face	21 Oct 08	Pass	Suitable for backfilling
TP902	B2	Face	21 Oct 08	Pass	Suitable for backfilling
TP902	E2	Face	21 Oct 08	Pass	Suitable for backfilling
TP902	E3	Face	21 Oct 08	Fail	To spilt and resample
TP902	E4	Face	21 Oct 08	Pass	Suitable for backfilling
TP902	E5	Face	21 Oct 08	Pass	Suitable for backfilling
TP902	S06	Surface	24 Oct 08	Pass	Added to general stockpile
TP902	S07	Surface	24 Oct 08	Pass	Added to general stockpile
TP902	A1	Face	24 Oct 08	Pass	Suitable for backfilling
TP902	B1	Face	24 Oct 08	Pass	Suitable for backfilling
TP902	D	Face	24 Oct 08	Pass	Suitable for backfilling
TP902	E1	Face	24 Oct 08	Pass	Suitable for backfilling
TP902	C	Face	02 Nov 08	Pass	Suitable for backfilling
TP905	S01	Surface	29 Jul 08	Pass	Added to general stockpile
TP905	G01	Base	04 Aug 08	FAIL	Required to be removed from site.

Trial Pit	Stockpile / Face ID	Source Material	Date Sampled	Results	Comment
TP905	G02	Base	04 Aug 08	FAIL	Required to be removed from site.
TP905	G03	Base	04 Aug 08	Pass	Added to general stockpile
TP905	G04	Base	04 Aug 08	FAIL	Required to be removed from site.
TP905	G05	Base	04 Aug 08	Pass	Added to general stockpile
TP905	G06	Base	04 Aug 08	Pass	Added to general stockpile
TP905	G07	Base	04 Aug 08	FAIL	Required to be removed from site.
TP905	S02	Surface	04 Aug 08	Pass	Added to general stockpile
TP905	B2	Face	26 Sep 08	FAIL	To split and resample
TP905	C	Face	26 Sep 08	Pass	Suitable for backfilling
TP905	D	Face	26 Sep 08	Pass	Suitable for backfilling
TP905	E2	Face	26 Sep 08	Pass	Suitable for backfilling
TP905	E3	Face	26 Sep 08	Pass	Suitable for backfilling
TP905	B3	Face	26 Sep 08	FAIL	To split and resample
TP905	S03	Base	26 Sep 08	FAIL	Required to be removed from site.
TP905	B2	Face	03 Oct 08	Pass	Suitable for backfilling
TP905	B3	Face	03 Oct 08	Pass	Suitable for backfilling
TP905	D	Face	27 Oct 08	Pass	Retest of sample taken 26/09/08. Should be identified as TP908. Suitable for backfilling
TP905	B1	Face	03 Oct 08	Pass	Suitable for backfilling
TP905	C2	Face	03 Oct 08	Pass	Suitable for backfilling
TP905	E1	Face	03 Oct 08	Pass	Suitable for backfilling
TP908	S01	Surface	21 Jul 08	Pass	Added to general stockpile
TP908	A	Face	21 Jul 08	Pass	Suitable for backfilling
TP908	B	Face	21 Jul 08	Pass	Suitable for backfilling
TP908	C	Face	21 Jul 08	Pass	Suitable for backfilling
TP908	D	Face	21 Jul 08	Pass	Suitable for backfilling
TP908	E	Face	21 Jul 08	Pass	Suitable for backfilling

Trial Pit	Stockpile / Face ID	Source Material	Date Sampled	Results	Comment
TP908	A	Face	19 Sep 08	Pass	Suitable for backfilling
TP908	B1	Face	19 Sep 08	FAIL	To split and resample
TP908	E1	Face	19 Sep 08	Pass	Suitable for backfilling
TP908	E2	Face	19 Sep 08	Pass	Suitable for backfilling
TP908	S02	Base	23 Sep 08	FAIL	To split and resample
TP908	D	Face	26 Sep 08	FAIL	To split and resample
TP908	E3	Face	26 Sep 08	Pass	Suitable for backfilling
TP908	B1a	Face	29 Sep 08	Pass	Retest of sample taken 19/09/08. Suitable for backfilling
TP908	S02a	Base	30 Sep 08	Pass	Retest of samples taken 23/9/08. Added to general stockpile
TP908	S02b	Base	30 Sep 08	Pass	Retest of samples taken 23/9/08. Added to general stockpile
TP908	S02c	Base	30 Sep 08	Pass	Retest of samples taken 23/9/08. Added to general stockpile
TP910	S01	Surface	10 Sep 08	Pass	Added to general stockpile
TP910	S02	Surface	10 Sep 08	Pass	Added to general stockpile
TP910	S03	Surface	10 Sep 08	Pass	Added to general stockpile
TP910	S04	Surface	10 Sep 08	Pass	Added to general stockpile
TP910	B	Face	02 Nov 08	Pass	Suitable for backfilling
TP910	C	Face	02 Nov 08	Pass	Suitable for backfilling
TP910	D	Face	02 Nov 08	FAIL	To split and resample
TP910	E1	Face	02 Nov 08	Pass	Suitable for backfilling
TP910	E2	Face	02 Nov 08	Pass	Suitable for backfilling
TP910	D	Face	06 Nov 08	Pass	Retest of sample taken 02/11/08
TP911	E	Face	26 Jun 08	Pass	Suitable for backfilling
TP912	S01	Surface	24 Jun 08	Pass	Backfilled in TP912
TP912	S02	Base	24 Jun 08	Pass	Backfilled in TP912
TP913	S01	Surface	04 Aug 08	Pass	Added to general stockpile
TP913	S02	Surface	04 Aug 08	Pass	Added to general stockpile

Trial Pit	Stockpile / Face ID	Source Material	Date Sampled	Results	Comment
TP913	S03	Surface	04 Aug 08	Pass	Added to general stockpile
TP913	S04	Surface	12 Aug 08	Pass	Added to general stockpile
TP913	S05	Base	18 Aug 08	Pass	Added to general stockpile
TP913	S06	Base	18 Aug 08	Pass	Added to general stockpile
TP913	G01	Base	02 Sep 08	Pass	Added to general stockpile
TP913	G02	Base	02 Sep 08	Pass	Added to general stockpile
TP913	G03	Base	02 Sep 08	Pass	Added to general stockpile
TP913	G04	Base	02 Sep 08	Pass	Added to general stockpile
TP913	B	Face	18 Sep 08	Pass	Suitable for backfilling
TP913	C	Face	18 Sep 08	Pass	Suitable for backfilling
TP913	D	Face	18 Sep 08	Pass	Suitable for backfilling
TP913	E1	Face	18 Sep 08	Pass	Suitable for backfilling
TP913	E2	Face	18 Sep 08	Pass	Suitable for backfilling
TP913	G01	Base	22 Sep 08	FAIL	Required to be removed from site.
TP913	G02	Base	22 Sep 08	FAIL	Required to be removed from site.
TP913	G03	Base	22 Sep 08	FAIL	Required to be removed from site.
TP913	G04	Base	22 Sep 08	FAIL	Required to be removed from site.
TP913	G05	Base	22 Sep 08	FAIL	Required to be removed from site.
TP914	S01	Base	11 Jul 08	Pass	Added to general stockpile
TP914	S02	Surface	11 Jul 08	Pass	Backfilled to TP655a
TP914	S03	Surface	11 Jul 08	Pass	Added to general stockpile
TP914	S04	Surface	11 Jul 08	Pass	Added to general stockpile
TP914	S05	Base	21 Jul 08	Pass	Added to general stockpile
TP914	G01	Base	04 Aug 08	FAIL	Required to be removed from site.
TP914	G02	Base	04 Aug 08	FAIL	Required to be removed from site.
TP914	S05	Surface	02 Sep 08	Pass	Added to general stockpile

Trial Pit	Stockpile / Face ID	Source Material	Date Sampled	Results	Comment
TP914	S07	Surface	14 Oct 08	Pass	Added to general stockpile
TP914	S08	Surface	24 Oct 08	Pass	Added to general stockpile
TP914	S09	Surface	24 Oct 08	Pass	Added to general stockpile
TP914	A1	Face	24 Oct 08	Pass	Suitable for backfilling
TP914	D1	Face	24 Oct 08	Pass	Suitable for backfilling
TP914	A2	Face	24 Oct 08	Pass	Suitable for backfilling
TP914	D2	Face	24 Oct 08	Pass	Suitable for backfilling
TP914	E1	Face	24 Oct 08	Pass	Suitable for backfilling
TP914	E2	Face	24 Oct 08	Pass	Suitable for backfilling
TP914	D3	Face	02 Nov 08	Pass	Suitable for backfilling
TP914	D4	Face	02 Nov 08	Pass	Suitable for backfilling
TP914	E4	Face	02 Nov 08	Pass	Suitable for backfilling
TP914	E3	Face	02 Nov 08	Pass	Suitable for backfilling
TP914	C	Face	02 Nov 08	Pass	Suitable for backfilling
TP914	S06	Surface	14 Oct 08	Pass	Added to general stockpile
TP915	A	Face	10 Oct 08	Pass	Suitable for backfilling
TP915	B	Face	10 Oct 08	Pass	Suitable for backfilling
TP915	C	Face	10 Oct 08	Pass	Suitable for backfilling
TP915	D	Face	10 Oct 08	Pass	Suitable for backfilling
TP915	E	Face	10 Oct 08	Pass	Suitable for backfilling
TP915	S01	Surface	13 Oct 08	Pass	Added to general stockpile
ES02	Bund	Surface	19 Mar 09	Pass	Suitable for site re-use
ES03	Bund	Surface	19 Mar 09	FAIL	To split and resample
ES04	Bund	Surface	19 Mar 09	FAIL	To split and resample
ES05	Bund	Surface	19 Mar 09	Pass	Suitable for site re-use
ES06	Bund	Surface	01 April 09	FAIL	Retest of sample taken 19/03/09. Material disposed to landfill on the 9th of April

ES07	Bund	Surface	01 April 09	FAIL	Retest of sample taken 19/03/09. Material disposed to landfill on the 9th of April

Appendix I Soil Validation Analysis Results

Client: **Norwest Holst Ltd - Soil Engineering Div**
Parkside Lane
Dewsbury Road
LEEDS
West Yorkshire
LS11 5SX

FAO: Mr C Wilkinson

Test Report Number: R08/1129

Client Project Name:	**Durham Road, Newport**
Client Project Number:	**F15285**
Your Order Number:	**F15285**
Order Receipt Date:	**30/06/08**
Reporting Date:	**Monday 7 July 2008**

If you have any queries regarding this report please contact our Customer Services Section

ECõS Environmental Limited
Low Moor Business Park, Common Road, Bradford BD12 0NB
Tel: 01274 691122 Fax: 01274 608100

Client Project Name: Durham Road, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Monday 7 July 2008

Comments

All analyses are carried out using the laboratory's standard methods unless otherwise agreed.

The test results in this report refer only to the actual samples on which testing has been performed.

Any opinions and/or interpretations expressed herein are outside the scope of the testing laboratory's UKAS accreditation.

The test report shall not be reproduced, except in full, without the testing laboratory's written approval.

This testing laboratory cannot be held responsible for the condition or suitability of samples submitted for testing by a third party or for the competency of personnel other than its own staff.

This laboratory cannot be held responsible for the accuracy of test sample locations or descriptions when supplied by a third party.

Soil Samples

Results are expressed on a dry mass basis. Assisted drying carried out @ 40°C.

See key in Notes section for explanation of numerical categories for asbestos results, if applicable.

All material is crushed if possible after assisted drying. Material which cannot be crushed is removed prior to analysis. See Notes section for details, if applicable.

Samples submitted for leachate determination were prepared using agreed procedures and analysed using UKAS accredited methodology where appropriate.

Results are expressed without correction for recovery factors.

All results marked with an ^{M} meet the criteria of the Environment Agency performance standard for laboratories undertaking chemical testing of soil (MCERTS V3).

Sample Pretreatment (as listed in method statement)

AD = Assisted drying @ 40°C R = As Received

Sample Type

B = Bulk disturbed sample
C = Core Sample
D = Small disturbed sample
ES = Environmental Soil Sample
P = Piston sample
U = Undisturbed sample - open drive
W = Water Sample
EW = Environmental Water Sample

Sample Results

\# Analysis not requested
*** Test not completed. Please see notes on last page

Signed:_____

For and on behalf of ECõS Environmental Limited

Approved signatories:

Name	Position
J R Brown	Business Development Manager
L Dewell	Production Manager
J Stoddart	Technical Manager

Client Project Name: Durham Road, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Monday 7 July 2008

Soil Samples

Method Statement

Determinand	Method of Detection	Sample Pretreatment	Limit of Detection	UKAS Accreditation	Sub-Contracted	Result Date
Polychlorinated biphenyl BZ#101	GC-MS	AD	0.05 ug/kg	Yes	Yes	04/07/08
Polychlorinated biphenyl BZ#118	GC-MS	AD	0.05 ug/kg	Yes	Yes	04/07/08
Polychlorinated biphenyl BZ#138	GC-MS	AD	0.05 ug/kg	Yes	Yes	04/07/08
Polychlorinated biphenyl BZ#153	GC-MS	AD	0.05 ug/kg	Yes	Yes	04/07/08
Polychlorinated biphenyl BZ#180	GC-MS	AD	0.05 ug/kg	Yes	Yes	04/07/08
Polychlorinated biphenyl BZ#28	GC-MS	AD	0.05 ug/kg	Yes	Yes	04/07/08
Polychlorinated biphenyl BZ#52	GC-MS	AD	0.05 ug/kg	Yes	Yes	04/07/08

Client Project Name: Durham Road, Newport

Project Number: F15285

Client: Norwest Holst Ltd - Soil Engineering Div

Reporting Date: Monday 7 July 2008

Sample Location		A	B	C	D	E
Top Depth / m						
Bottom Depth / m						
Sample No.						
Sample Type		ES	ES	ES	ES	ES
Date Sampled						
Receipt Date		30/06/08	30/06/08	30/06/08	30/06/08	30/06/08
ECõS Sample ID		S0807160	S0807161	S0807162	S0807163	S0807164
Matrix Type		Soil	Soil	Soil	Soil	Soil
Principle Soil Type (for MCERTS)		SAND	SAND	SAND	SAND	GRAVEL
Determinand	**Units**					
Polychlorinated biphenyl BZ#28	µg/kg	<0.05	* <0.50	<0.05	<0.05	<0.05
Polychlorinated biphenyl BZ#52	µg/kg	<0.05	* <0.50	<0.05	<0.05	<0.05
Polychlorinated biphenyl BZ#101	µg/kg	0.07	* <0.50	<0.05	<0.05	<0.05
Polychlorinated biphenyl BZ#118	µg/kg	<0.05	* <0.50	<0.05	<0.05	<0.05
Polychlorinated biphenyl BZ#153	µg/kg	0.05	* <0.50	<0.05	<0.05	<0.05
Polychlorinated biphenyl BZ#138	µg/kg	0.09	* <0.50	<0.05	<0.05	<0.05
Polychlorinated biphenyl BZ#180	µg/kg	<0.05	* <0.50	<0.05	<0.05	<0.05

Client Project Name: Durham Road, Newport

Project Number: F15285

Client: Norwest Holst Ltd - Soil Engineering Div

Reporting Date: Monday 7 July 2008

Sample Location		S01	SO2
Top Depth / m			
Bottom Depth / m			
Sample No.			
Sample Type		ES	ES
Date Sampled			
Receipt Date		30/06/08	30/06/08
ECõS Sample ID		S0807165	S0807166
Matrix Type		Soil	Soil
Principle Soil Type (for MCERTS)		SAND	SAND
Determinand	**Units**		
Polychlorinated biphenyl BZ#28	µg/kg	<0.05	<0.05
Polychlorinated biphenyl BZ#52	µg/kg	<0.05	<0.05
Polychlorinated biphenyl BZ#101	µg/kg	0.09	<0.05
Polychlorinated biphenyl BZ#118	µg/kg	0.12	<0.05
Polychlorinated biphenyl BZ#153	µg/kg	0.2	0.07
Polychlorinated biphenyl BZ#138	µg/kg	0.41	0.1
Polychlorinated biphenyl BZ#180	µg/kg	0.2	<0.05

Client Project Name: Durham Road, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Monday 7 July 2008

Sample Description - Soil samples

ECõS Sample ID	Colour	Principle Type	Principle Size/mm
S0807160	BLACK	SAND	0.06-0.2
S0807161	BLACK	SAND	0.06-0.2
S0807162	BLACK	SAND	0.06-0.2
S0807163	BLACK	SAND	0.06-0.2
S0807164	BROWN	GRAVEL	6-20
S0807165	BLACK	SAND	0.06-0.2
S0807166	BLACK	SAND	0.06-0.2

Client Project Name: Durham Road, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Monday 7 July 2008

Notes and Preservation Details

No preservation or stabilisation of test samples undertaken at sampling site.

Note * LOD raised due to test sample dilution prior to analysis.

PCB analyses undertaken by UKAS laboratory number 1549.

End of Test Report

Client: **Norwest Holst Ltd - Soil Engineering Div**
Parkside Lane
Dewsbury Road
LEEDS
West Yorkshire
LS11 5SX

FAO: Mr C Wilkinson

Test Report Number: R08/1142

Client Project Name:	**Durham Rd, Newport**
Client Project Number:	**F15285**
Your Order Number:	**F15285**
Order Receipt Date:	**02/07/08**
Reporting Date:	**Wednesday 9 July 2008**

If you have any queries regarding this report please contact our Customer Services Section

ECõS Environmental Limited
Low Moor Business Park, Common Road, Bradford BD12 0NB
Tel: 01274 691122 Fax: 01274 608100

Client Project Name: Durham Rd, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Wednesday 9 July 2008

Comments

All analyses are carried out using the laboratory's standard methods unless otherwise agreed.

The test results in this report refer only to the actual samples on which testing has been performed.

Any opinions and/or interpretations expressed herein are outside the scope of the testing laboratory's UKAS accreditation.

The test report shall not be reproduced, except in full, without the testing laboratory's written approval.

This testing laboratory cannot be held responsible for the condition or suitability of samples submitted for testing by a third party or for the competency of personnel other than its own staff.

This laboratory cannot be held responsible for the accuracy of test sample locations or descriptions when supplied by a third party.

Soil Samples

Results are expressed on a dry mass basis. Assisted drying carried out @ 40°C.

See key in Notes section for explanation of numerical categories for asbestos results, if applicable.

All material is crushed if possible after assisted drying. Material which cannot be crushed is removed prior to analysis. See Notes section for details, if applicable.

Samples submitted for leachate determination were prepared using agreed procedures and analysed using UKAS accredited methodology where appropriate.

Results are expressed without correction for recovery factors.

All results marked with an ^{M} meet the criteria of the Environment Agency performance standard for laboratories undertaking chemical testing of soil (MCERTS V3).

Sample Pretreatment (as listed in method statement)

AD = Assisted drying @ 40°C R = As Received

Sample Type

B = Bulk disturbed sample
C = Core Sample
D = Small disturbed sample
ES = Environmental Soil Sample
P = Piston sample
U = Undisturbed sample - open drive
W = Water Sample
EW = Environmental Water Sample

Sample Results

\# Analysis not requested
*** Test not completed. Please see notes on last page

Signed:_____

For and on behalf of ECõS Environmental Limited

Approved signatories:

Name	Position
J R Brown	Business Development Manager
L Dewell	Production Manager
J Stoddart	Technical Manager

Client Project Name: Durham Rd, Newport

Project Number: F15285

Client: Norwest Holst Ltd - Soil Engineering Div

Reporting Date: Wednesday 9 July 2008

Soil Samples

Method Statement

Determinand	Method of Detection	Sample Pretreatment	Limit of Detection	UKAS Accreditation	Sub-Contracted	Result Date
Polychlorinated biphenyl BZ#101	GC-MS	AD	0.05 ug/kg	Yes	Yes	08/07/08
Polychlorinated biphenyl BZ#118	GC-MS	AD	0.05 ug/kg	Yes	Yes	08/07/08
Polychlorinated biphenyl BZ#138	GC-MS	AD	0.05 ug/kg	Yes	Yes	08/07/08
Polychlorinated biphenyl BZ#153	GC-MS	AD	0.05 ug/kg	Yes	Yes	08/07/08
Polychlorinated biphenyl BZ#180	GC-MS	AD	0.05 ug/kg	Yes	Yes	08/07/08
Polychlorinated biphenyl BZ#28	GC-MS	AD	0.05 ug/kg	Yes	Yes	08/07/08
Polychlorinated biphenyl BZ#52	GC-MS	AD	0.05 ug/kg	Yes	Yes	08/07/08

Client Project Name: Durham Rd, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Wednesday 9 July 2008

Sample Location		TP911	TP655A	TP655A	TP655A	TP655A
Top Depth / m						
Bottom Depth / m						
Sample No.		Face E	A	B	C	D
Sample Type			ES	ES	ES	ES
Date Sampled		30/06/08				
Receipt Date		02/07/08	02/07/08	02/07/08	02/07/08	02/07/08
ECõS Sample ID		S0807253	S0807254	S0807255	S0807256	S0807257
Matrix Type		Soil	Soil	Soil	Soil	Soil
Principle Soil Type (for MCERTS)		SAND	SAND	LOAM	SAND	SAND
Determinand	**Units**					
Polychlorinated biphenyl BZ#28	ug/kg	(9) <0.50	200	4	(9) <0.50	16000
Polychlorinated biphenyl BZ#52	ug/kg	1.3	370	8.9	1.4	50000
Polychlorinated biphenyl BZ#101	ug/kg	2.9	770	80	21	43000
Polychlorinated biphenyl BZ#118	ug/kg	7.3	2900	460	110	24000
Polychlorinated biphenyl BZ#153	ug/kg	6.6	2400	150	36	51000
Polychlorinated biphenyl BZ#138	ug/kg	16	8200	350	75	61000
Polychlorinated biphenyl BZ#180	ug/kg	11	3900	370	83	60000

Client Project Name: Durham Rd, Newport

Project Number: F15285

Client: Norwest Holst Ltd - Soil Engineering Div

Reporting Date: Wednesday 9 July 2008

Sample Location		TP655A	TP655A	TP655A	TP655A	TP902
Top Depth / m						
Bottom Depth / m						
Sample No.		E	SO1	SO2	SO3	SO3
Sample Type		ES	ES	ES	ES	ES
Date Sampled						
Receipt Date		02/07/08	02/07/08	02/07/08	02/07/08	02/07/08
ECõS Sample ID		S0807258	S0807259	S0807260	S0807261	S0807262
Matrix Type		Soil	Soil	Soil	Soil	Soil
Principle Soil Type (for MCERTS)		SAND	SAND	SAND	GRAVEL	CLAY
Determinand	**Units**					
Polychlorinated biphenyl BZ#28	ug/kg	650	1400	49000	100000	370
Polychlorinated biphenyl BZ#52	ug/kg	1700	4400	78000	340000	280
Polychlorinated biphenyl BZ#101	ug/kg	1000	20000	83000	5800000	920
Polychlorinated biphenyl BZ#118	ug/kg	1100	110000	270000	34000000	5700
Polychlorinated biphenyl BZ#153	ug/kg	570	34000	100000	11000000	2100
Polychlorinated biphenyl BZ#138	ug/kg	1300	75000	210000	24000000	3900
Polychlorinated biphenyl BZ#180	ug/kg	860	82000	240000	29000000	5700

Client Project Name: Durham Rd, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Wednesday 9 July 2008

Sample Location	TP902
Top Depth / m	
Bottom Depth / m	
Sample No.	SO4
Sample Type	
Date Sampled	
Receipt Date	02/07/08
ECõS Sample ID	S0807263
Matrix Type	Soil
Principle Soil Type (for MCERTS)	CLAY

Determinand	**Units**	
Polychlorinated biphenyl BZ#28	ug/kg	85
Polychlorinated biphenyl BZ#52	ug/kg	110
Polychlorinated biphenyl BZ#101	ug/kg	270
Polychlorinated biphenyl BZ#118	ug/kg	1200
Polychlorinated biphenyl BZ#153	ug/kg	390
Polychlorinated biphenyl BZ#138	ug/kg	750
Polychlorinated biphenyl BZ#180	ug/kg	780

Client Project Name: Durham Rd, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Wednesday 9 July 2008

Sample Description - Soil samples

ECõS Sample ID	Colour	Principle Type	Principle Size/mm
S0807253	BROWN	SAND	0.06-0.2
S0807254	BLACK	SAND	0.06-0.2
S0807255	N/A	LOAM	N/A
S0807256	BROWN/GRAVEL	SAND	0.06-0.2
S0807257	BLACK	SAND	0.06-0.2
S0807258	BLACK	SAND	0.06-0.2
S0807259	BROWN	SAND	0.06-0.2
S0807260	BLACK	SAND	0.06-0.2
S0807261	BROWN	GRAVEL	20-60
S0807262	LIGHT ORANGE	CLAY	<0.06
S0807263	LIGHT ORANGE	CLAY	<0.06

Client Project Name: Durham Rd, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Wednesday 9 July 2008

Notes and Preservation Details

No preservation or stabilisation of test samples undertaken at sampling site.

Note (9) LOD raised due to dilution of test sample prior to analysis

PCB analyses undertaken by UKAS laboratory number 1549.

End of Test Report

ECoS REPORT NO.		081222	Durham Rd, Newport																
DATE ISSUED		24/07/08	F15285																
HOLE NO/SAMPLE ID		TP635A	TP635A	TP635A	TP635A	TP635A	TP635A	TP914	TP914	TP914	TP914	TP902	TP902	TP902	TP902	TP655A	TP655A	TP655A	TP914
SAMPLE DEPTH																			2.00 - 2.20m
SAMPLE NO.		.S07	.S01	.S06	.S05	.S03	.S02	.S01	.S02	.S03	.S04	.S01	.S02	.S03	.S04	Face D	Face A	.S04	.SS01
SAMPLE TYPE																			
DATE SAMPLED		11/07/08	11/07/08	11/07/08	11/07/08	11/07/08	11/07/08	11/07/08	11/07/08	11/07/08	11/07/08	11/07/08	11/07/08	11/07/08	11/07/08				04/07/08
RECEIPT DATE		14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08	14/07/08
OUR REF.		S0807702	S0807703	S0807704	S0807705	S0807706	S0807707	S0807708	S0807709	S0807710	S0807711	S0807712	S0807713	S0807714	S0807715	S0807716	S0807717	S0807718	S0807719
MATRIX		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polychlorinated biphenyl BZ#28	µg/kg	150	9	15	7	23	800	12	0.7	33	80	6	340	8	350	8	23	26000	40000
Polychlorinated biphenyl BZ#52	µg/kg	1100	66	180	41	930	1500	80	2.4	930	100	14	780	15	850	23	180	51000	260000
Polychlorinated biphenyl BZ#101	µg/kg	2400	89	340	51	1500	3000	160	2.6	2400	140	11	1000	13	1300	43	260	30000	450000
Polychlorinated biphenyl BZ#118	µg/kg	2700	89	180	330	2200	1700	100	2.6	1200	91	15	870	8.1	970	160	210	22000	240000
Polychlorinated biphenyl BZ#153	µg/kg	2100	63	230	250	1400	3700	110	2	1700	180	16	480	14	920	85	240	25000	350000
Polychlorinated biphenyl BZ#138	µg/kg	4800	100	250	870	4400	4800	130	3.6	1700	190	27	790	16	1100	200	240	28000	360000
Polychlorinated biphenyl BZ#180	µg/kg	1400	62	110	250	1100	3200	53	2.1	810	120	21	290	17	430	140	130	23000	170000

ECoS REPORT NO.		081304i	Durham Rd																		
DATE ISSUED		01/08/08	F15285																		
HOLE NO/SAMPLE ID		TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A	TP655A
SAMPLE DEPTH																					
SAMPLE NO.		B09	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	B24	B25	B26	B27	B28
SAMPLE TYPE																					
DATE SAMPLED		18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08	18/07/08
RECEIPT DATE		24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08	24/07/08
OUR REF.		S0808235	S0808236	S0808237	S0808238	S0808239	S0808240	S0808241	S0808242	S0808243	S0808244	S0808245	S0808246	S0808247	S0808248	S0808249	S0808250	S0808251	S0808252	S0808253	S0808254
MATRIX		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Polychlorinated biphenyl BZ#28	µg/kg	1100	4400	6000	400	32000	130	13000	320000	20000	4600	120	900	1500	36000	2400	80	(9) <50	2400	4900	2200
Polychlorinated biphenyl BZ#52	µg/kg	2700	12000	12000	1100	41000	320	25000	500000	67000	11000	430	4700	12000	180000	12000	310	97	13000	28000	12000
Polychlorinated biphenyl BZ#101	µg/kg	3300	8400	49000	990	64000	280	22000	350000	190000	12000	260	4800	12000	110000	8900	200	(9) <50	4900	23000	5400
Polychlorinated biphenyl BZ#118	µg/kg	1100	2100	8800	380	37000	150	27000	89000	540000	4400	210	1500	4000	49000	3100	97	(9) <50	2900	11000	2800
Polychlorinated biphenyl BZ#153	µg/kg	5900	5000	89000	1100	18000	280	20000	360000	300000	19000	530	16000	16000	210000	21000	400	75	4700	25000	1300
Polychlorinated biphenyl BZ#138	µg/kg	6400	5300	130000	1300	22000	300	28000	450000	450000	17000	720	19000	17000	250000	24000	470	90	5900	27000	1900
Polychlorinated biphenyl BZ#180	µg/kg	6000	4500	130000	1200	23000	260	27000	330000	310000	14000	870	23000	15000	340000	30000	620	110	7300	39000	1900
Note (9) LOD raised due to dilution of sample prior to analysis																					

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson
04 August 2008

Dear Christiaan Wilkinson

Test Report Number **91563**

Your Project Reference **F1528S - Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 30 July 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 30 July 2008

F1528S - Durham Rd, Newport

Chemtest

Report Date
04 August 2008

Login Batch No					91563	
Chemtest LIMS ID					AD28837	AD28838
Sample ID					TP905	TP616
Sample No					SO1	SO1
Depth						
Matrix					*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*		
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	1.1	0.1
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.9	0.1
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.6	<0.1
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	1.7	0.5
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	1.6	0.1
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	2.7	0.9
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	1.5	<0.1

All tests undertaken between 04-Aug-2008 and 4-Aug-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Client: **Norwest Holst Ltd - Soil Engineering Div**
Parkside Lane
Dewsbury Road
LEEDS
West Yorkshire
LS11 5SX

FAO: Mr C Wilkinson

Test Report Number: R08/1304

Client Project Name:	**Durham Road, Newport**
Client Project Number:	**F15285**
Your Order Number:	**F15285**
Order Receipt Date:	**24/07/08**
Reporting Date:	**Tuesday 5 August 2008**

If you have any queries regarding this report please contact our Customer Services Section

ECõS Environmental Limited
Low Moor Business Park, Common Road, Bradford BD12 0NB
Tel: 01274 691122 Fax: 01274 608100

Client Project Name: Durham Road, Newport | **Client: Norwest Holst Ltd - Soil Engineering Div**

Project Number: F15285 | **Reporting Date: Tuesday 5 August 2008**

Comments

All analyses are carried out using the laboratory's standard methods unless otherwise agreed.

The test results in this report refer only to the actual samples on which testing has been performed.

Any opinions and/or interpretations expressed herein are outside the scope of the testing laboratory's UKAS accreditation.

The test report shall not be reproduced, except in full, without the testing laboratory's written approval.

This testing laboratory cannot be held responsible for the condition or suitability of samples submitted for testing by a third party or for the competency of personnel other than its own staff.

This testing laboratory cannot be held responsible for the accuracy of test sample locations or descriptions when supplied by a third party.

Soil Samples

Results are expressed on a dried mass basis. Assisted drying carried out @ 40°C.

See key in Notes section for explanation of numerical categories for asbestos results, if applicable.

All material is crushed if possible after assisted drying. Material which cannot be crushed is removed prior to analysis. See Notes section for details, if applicable.

Samples submitted for leachate determination were prepared using agreed procedures and analysed using UKAS accredited methodology where appropriate.

Results are expressed without correction for recovery factors.

Sample Pretreatment (as listed in method statement)

AD = Assisted drying @ 40°C R = As Received

Sample Type

B = Bulk disturbed sample
C = Core Sample
D = Small disturbed sample
ES = Environmental Soil Sample
P = Piston sample
U = Undisturbed sample - open drive
W = Water Sample
EW = Environmental Water Sample

Sample Results

\# Analysis not requested
*** Test not completed. Please see notes on last page

Signed:_____

For and on behalf of ECõS Environmental Limited

Approved signatories:

Name	Position
J R Brown	Business Development Manager
L Dewell	Production Manager
J Stoddart	Technical Manager

Client Project Name: Durham Road, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Tuesday 5 August 2008

Soil Samples

Method Statement

Determinand	Method of Detection	Sample Pretreatment	Limit of Detection	UKAS Accreditation	Sub-Contracted	Result Date
Polychlorinated biphenyl BZ#101	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#118	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#138	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#153	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#180	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#28	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#52	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08

Client Project Name: Durham Road, Newport

Project Number: F15285

Client: Norwest Holst Ltd - Soil Engineering Div

Reporting Date: Tuesday 5 August 2008

Sample Location / Identification		TP655A	TP655A	TP655A	TP655A	TP655A
Top Depth / m						
Bottom Depth / m						
Sample No.		B09	B10	B11	B12	B13
Sample Type						
Date Sampled		18/07/08	18/07/08	18/07/08	18/07/08	18/07/08
Receipt Date		24/07/08	24/07/08	24/07/08	24/07/08	24/07/08
ECõS Sample ID		S0808235	S0808236	S0808237	S0808238	S0808239
Matrix Type		Soil	Soil	Soil	Soil	Soil
Determinand	**Units**					
Polychlorinated biphenyl BZ#28	µg/kg	1100	4400	6000	400	32000
Polychlorinated biphenyl BZ#52	µg/kg	2700	12000	12000	1100	41000
Polychlorinated biphenyl BZ#101	µg/kg	3300	8400	49000	990	64000
Polychlorinated biphenyl BZ#118	µg/kg	1100	2100	8800	380	37000
Polychlorinated biphenyl BZ#153	µg/kg	5900	5000	89000	1100	18000
Polychlorinated biphenyl BZ#138	µg/kg	6400	5300	130000	1300	22000
Polychlorinated biphenyl BZ#180	µg/kg	6000	4500	130000	1200	23000

Client Project Name: Durham Road, Newport

Project Number: F15285

Client: Norwest Holst Ltd - Soil Engineering Div

Reporting Date: Tuesday 5 August 2008

Sample Location / Identification		TP655A	TP655A	TP655A	TP655A	TP655A
Top Depth / m						
Bottom Depth / m						
Sample No.		B14	B15	B16	B17	B18
Sample Type						
Date Sampled		18/07/08	18/07/08	18/07/08	18/07/08	18/07/08
Receipt Date		24/07/08	24/07/08	24/07/08	24/07/08	24/07/08
ECõS Sample ID		S0808240	S0808241	S0808242	S0808243	S0808244
Matrix Type		Soil	Soil	Soil	Soil	Soil
Determinand	**Units**					
Polychlorinated biphenyl BZ#28	µg/kg	130	13000	320000	20000	4600
Polychlorinated biphenyl BZ#52	µg/kg	320	25000	500000	67000	11000
Polychlorinated biphenyl BZ#101	µg/kg	280	22000	350000	190000	12000
Polychlorinated biphenyl BZ#118	µg/kg	150	27000	89000	540000	4400
Polychlorinated biphenyl BZ#153	µg/kg	280	20000	360000	300000	19000
Polychlorinated biphenyl BZ#138	µg/kg	300	28000	450000	450000	17000
Polychlorinated biphenyl BZ#180	µg/kg	260	27000	330000	310000	14000

Client Project Name: Durham Road, Newport

Project Number: F15285

Client: Norwest Holst Ltd - Soil Engineering Div

Reporting Date: Tuesday 5 August 2008

Sample Location / Identification		TP655A	TP655A	TP655A	TP655A	TP655A
Top Depth / m						
Bottom Depth / m						
Sample No.		B19	B20	B21	B22	B23
Sample Type						
Date Sampled		18/07/08	18/07/08	18/07/08	18/07/08	18/07/08
Receipt Date		24/07/08	24/07/08	24/07/08	24/07/08	24/07/08
ECõS Sample ID		S0808245	S0808246	S0808247	S0808248	S0808249
Matrix Type		Soil	Soil	Soil	Soil	Soil
Determinand	**Units**					
Polychlorinated biphenyl BZ#28	µg/kg	120	900	1500	36000	2400
Polychlorinated biphenyl BZ#52	µg/kg	430	4700	12000	180000	12000
Polychlorinated biphenyl BZ#101	µg/kg	260	4800	12000	110000	8900
Polychlorinated biphenyl BZ#118	µg/kg	210	1500	4000	49000	3100
Polychlorinated biphenyl BZ#153	µg/kg	530	16000	16000	210000	21000
Polychlorinated biphenyl BZ#138	µg/kg	720	19000	17000	250000	24000
Polychlorinated biphenyl BZ#180	µg/kg	870	23000	15000	340000	30000

Client Project Name: Durham Road, Newport

Project Number: F15285

Client: Norwest Holst Ltd - Soil Engineering Div

Reporting Date: Tuesday 5 August 2008

Sample Location / Identification		TP655A	TP655A	TP655A	TP655A	TP655A
Top Depth / m						
Bottom Depth / m						
Sample No.		B24	B25	B26	B27	B28
Sample Type						
Date Sampled		18/07/08	18/07/08	18/07/08	18/07/08	18/07/08
Receipt Date		24/07/08	24/07/08	24/07/08	24/07/08	24/07/08
ECõS Sample ID		S0808250	S0808251	S0808252	S0808253	S0808254
Matrix Type		Soil	Soil	Soil	Soil	Soil
Determinand	**Units**					
Polychlorinated biphenyl BZ#28	µg/kg	80	(9) <50	2400	4900	2200
Polychlorinated biphenyl BZ#52	µg/kg	310	97	13000	28000	12000
Polychlorinated biphenyl BZ#101	µg/kg	200	(9) <50	4900	23000	5400
Polychlorinated biphenyl BZ#118	µg/kg	97	(9) <50	2900	11000	2800
Polychlorinated biphenyl BZ#153	µg/kg	400	75	4700	25000	1300
Polychlorinated biphenyl BZ#138	µg/kg	470	90	5900	27000	1900
Polychlorinated biphenyl BZ#180	µg/kg	620	110	7300	39000	1900

Client Project Name: Durham Road, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15285

Reporting Date: Tuesday 5 August 2008

Notes and Preservation Details

Note (9) LOD raised due to dilution of sample prior to analysis

PCB analyses undertaken by UKAS laboratory number 1549.

End of Test Report

Client: **Norwest Holst Ltd - Soil Engineering Div**
Parkside Lane
Dewsbury Road
LEEDS
West Yorkshire
LS11 5SX

FAO: Mr C Wilkinson

Test Report Number: R08/1300

Client Project Name:	**Durham Rd, Newport**
Client Project Number:	**F15825**
Your Order Number:	**F15825**
Order Receipt Date:	**23/07/08**
Reporting Date:	**Thursday 7 August 2008**

If you have any queries regarding this report please contact our Customer Services Section

ECõS Environmental Limited
Low Moor Business Park, Common Road, Bradford BD12 0NB
Tel: 01274 691122 Fax: 01274 608100

Client Project Name: Durham Rd, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15825

Reporting Date: Thursday 7 August 2008

Comments

All analyses are carried out using the laboratory's standard methods unless otherwise agreed.

The test results in this report refer only to the actual samples on which testing has been performed.

Any opinions and/or interpretations expressed herein are outside the scope of the testing laboratory's UKAS accreditation.

The test report shall not be reproduced, except in full, without the testing laboratory's written approval.

This testing laboratory cannot be held responsible for the condition or suitability of samples submitted for testing by a third party or for the competency of personnel other than its own staff.

This testing laboratory cannot be held responsible for the accuracy of test sample locations or descriptions when supplied by a third party.

Soil Samples

Results are expressed on a dried mass basis. Assisted drying carried out @ 40°C.

See key in Notes section for explanation of numerical categories for asbestos results, if applicable.

All material is crushed if possible after assisted drying. Material which cannot be crushed is removed prior to analysis. See Notes section for details, if applicable.

Samples submitted for leachate determination were prepared using agreed procedures and analysed using UKAS accredited methodology where appropriate.

Results are expressed without correction for recovery factors.

Sample Pretreatment (as listed in method statement)

AD = Assisted drying @ 40°C R = As Received

Sample Type

B = Bulk disturbed sample
C = Core Sample
D = Small disturbed sample
ES = Environmental Soil Sample
P = Piston sample
U = Undisturbed sample - open drive
W = Water Sample
EW = Environmental Water Sample

Sample Results

\# Analysis not requested
*** Test not completed. Please see notes on last page

Signed:_____

For and on behalf of ECõS Environmental Limited

Approved signatories:

Name	Position
J R Brown	Business Development Manager
L Dewell	Production Manager
J Stoddart	Technical Manager

Client Project Name: Durham Rd, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15825

Reporting Date: Thursday 7 August 2008

Soil Samples

Method Statement

Determinand	Method of Detection	Sample Pretreatment	Limit of Detection	UKAS Accreditation	Sub-Contracted	Result Date
Polychlorinated biphenyl BZ#101	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#118	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#138	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#153	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#180	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#28	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08
Polychlorinated biphenyl BZ#52	GC-MS	AD	0.05 ug/kg	Yes	Yes	01/08/08

Client Project Name: Durham Rd, Newport

Project Number: F15825

Client: Norwest Holst Ltd - Soil Engineering Div

Reporting Date: Thursday 7 August 2008

Sample Location / Identification		TP908	TP908	TP908	TP908	TP908
Top Depth / m						
Bottom Depth / m						
Sample No.		Face A	Face B	Face C	Face D	Face E
Sample Type						
Date Sampled						
Receipt Date		23/07/08	23/07/08	23/07/08	23/07/08	23/07/08
ECõS Sample ID		S0808200	S0808201	S0808202	S0808203	S0808204
Matrix Type		Soil	Soil	Soil	Soil	Soil
Determinand	**Units**					
Polychlorinated biphenyl BZ#28	µg/kg	130	120	(9) <50	(9) <50	(9) <50
Polychlorinated biphenyl BZ#52	µg/kg	180	200	(9) <50	(9) <50	(9) <50
Polychlorinated biphenyl BZ#101	µg/kg	61	190	(9) <50	(9) <50	(9) <50
Polychlorinated biphenyl BZ#118	µg/kg	(9) <50	(9) <50	(9) <50	(9) <50	(9) <50
Polychlorinated biphenyl BZ#153	µg/kg	(9) <50	160	(9) <50	(9) <50	(9) <50
Polychlorinated biphenyl BZ#138	µg/kg	(9) <50	95	(9) <50	(9) <50	(9) <50
Polychlorinated biphenyl BZ#180	µg/kg	(9) <50	(9) <50	(9) <50	(9) <50	(9) <50

Client Project Name: Durham Rd, Newport

Project Number: F15825

Client: Norwest Holst Ltd - Soil Engineering Div

Reporting Date: Thursday 7 August 2008

Sample Location / Identification		TP635A	TP914	TP908
Top Depth / m				
Bottom Depth / m				
Sample No.		S04	S05	S01
Sample Type				
Date Sampled				
Receipt Date		23/07/08	23/07/08	23/07/08
ECõS Sample ID		S0808205	S0808206	S0808207
Matrix Type		Soil	Soil	Soil
Determinand	**Units**			
Polychlorinated biphenyl BZ#28	µg/kg	600	55	(9) <50
Polychlorinated biphenyl BZ#52	µg/kg	1900	210	93
Polychlorinated biphenyl BZ#101	µg/kg	2000	160	(9) <50
Polychlorinated biphenyl BZ#118	µg/kg	840	73	(9) <50
Polychlorinated biphenyl BZ#153	µg/kg	1200	230	(9) <50
Polychlorinated biphenyl BZ#138	µg/kg	1600	260	(9) <50
Polychlorinated biphenyl BZ#180	µg/kg	740	200	(9) <50

Client Project Name: Durham Rd, Newport

Client: Norwest Holst Ltd - Soil Engineering Div

Project Number: F15825

Reporting Date: Thursday 7 August 2008

Notes and Preservation Details

Note (9) LOD raised due to dilution of sample prior to analysis.

PCB analyses undertaken by UKAS laboratory number 1549.

End of Test Report

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
07 August 2008

Dear C Wilkinson

Test Report Number **100647**

Your Project Reference **Durham Road, Newport - F15285**

Please find enclosed the results of analysis for the samples received 5 August 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 4 samples received 05 August 2008

Durham Road, Newport - F15285

Chemtest

Report Date
07 August 2008

Login Batch No					100647			
Chemtest LIMS ID					AD30750	AD30751	AD30752	AD30753
Sample ID					TP635A	TP635A	TP914	TP914
Sample No					G06	G07	G01	G02
Depth								
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	2.5	19	1.9	5.1
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	6.4	55	8.6	21
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	11	180	33	86
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	8.0	160	16	37
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	7.9	140	52	150
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	8.8	180	33	86
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	4.0	55	34	100

All tests undertaken between 07-Aug-2008 and 7-Aug-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
08 August 2008

Dear C Wilkinson

Test Report Number **100674**

Your Project Reference **F15285 - Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 6 August 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 6 samples
received 06 August 2008

F15285 - Durham Rd, Newport

Report Date
08 August 2008

Login Batch No					100674					
Chemtest LIMS ID					AD31262	AD31263	AD31264	AD31265	AD31266	AD31267
Sample ID					TP616	TP616	TP913	TP905	TP616	TP616
Sample No					G01	G02	S01	S02	G03	G04
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	0.06	0.3	0.04	0.01	22	6
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.06	1.0	0.01	0.01	54	1.7
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.12	3.4	0.01	0.04	220	1.4
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.04	4.0	0.02	0.02	140	2.9
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.4	5.0	0.03	0.05	260	6.5
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.2	7.1	0.05	0.06	250	6.0
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.4	2.5	<0.01	0.04	180	3.9

All tests undertaken between 08-Aug-2008 and 8-Aug-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
07 August 2008

Dear C Wilkinson

Test Report Number **100612**

Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 1 August 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

□ Darrell Hall	Laboratory Manager
□ Phil Hellier	Operations Director
□ Keith Jones	Technical Development Chemist
□ John Crawford	Quality Manager
□ Malcolm Avis	Technical Director

Authorised Signatory

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

LABORATORY TEST REPORT

Results of analysis of 6 samples
received 01 August 2008

Durham Rd, Newport

Chemtest

Report Date
07 August 2008

FAO C Wilkinson

Login Batch No					100612					
Chemtest LIMS ID					AD29696	AD29697	AD29698	AD29699	AD29700	AD29701
Sample ID					TP655A	TP655A	TP655A	TP655A	TP655A	TP655A
Sample No					S01A	S02A	S02B	S02C	S04A	S04B
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	1.8	2.2	3.9	1.2	2.5	9.3
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	5.6	6.3	9.1	4.1	3.2	8.4
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	12	5.0	8.0	2.1	2.4	5.0
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	51	11	21	2.9	4.6	9.9
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	27	6.7	17	2.6	4.2	6.3
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	41	9.1	28	3.4	6.3	7.2
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	47	10	24	3.1	5.1	8.4

All tests undertaken between 05-Aug-2008 and 5-Aug-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
11 August 2008

Dear C Wilkinson

Test Report Number **91649**

Your Project Reference **Durham Rd, Newport - F15285**

Please find enclosed the results of analysis for the samples received 7 August 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 3 samples
received 07 August 2008

Durham Rd, Newport - F15285

Chemtest

Report Date
11 August 2008

Login Batch No					91649		
Chemtest LIMS ID					AD31716	AD31717	AD31718
Sample ID					TP616	TP913	TP913
Sample No					G05	S02	S03
Depth							
Matrix					*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	0.4	0.03	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	1.5	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	4.3	<0.01	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	3.5	<0.01	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	5.4	0.05	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	6.5	<0.01	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	3.0	<0.01	<0.01

All tests undertaken between 08-Aug-2008 and 8-Aug-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
07 August 2008

Dear C Wilkinson

Test Report Number **100611**

Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 1 August 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 5 samples
received 01 August 2008

Durham Rd, Newport

Chemtest

Report Date
07 August 2008

Login Batch No					100611				
Chemtest LIMS ID					AD29691	AD29692	AD29693	AD29694	AD29695
Sample ID					TP635A	TP635A	TP635A	TP635A	TP635A
Sample No					G01	G02	G03	G04	G05
Depth									
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*					
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	8.2	2.6	3.7	2.3	0.5
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	15	9.6	7.9	7.6	1.4
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	42	21	16	15	3.6
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	34	14	8.2	9.3	2.5
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	42	20	13	14	3.4
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	54	21	11	14	3.7
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	23	9.5	5.1	6.1	1.5

All tests undertaken between 05-Aug-2008 and 5-Aug-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
08 August 2008

Dear C Wilkinson

Test Report Number **100675**

Your Project Reference **F15285 - Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 6 August 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 7 samples received 06 August 2008

F15285 - Durham Rd, Newport

Chemtest

Report Date
08 August 2008

Login Batch No					100675						
Chemtest LIMS ID					AD31269	AD31270	AD31271	AD31272	AD31273	AD31274	AD31275
Sample ID					TP905	TP905	TP905	TP905	TP905	TP905	TP905
Sample No					G01	G02	G03	G04	G05	G06	G07
Depth											
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*							
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	3.9	15	1.2	11	0.02	0.01	5.6
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	4.3	16	1.1	16	<0.01	<0.01	4.7
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	9.3	40	2.7	50	0.01	0.01	8.5
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	9.5	51	2.3	58	0.02	0.02	10
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	7.6	28	1.9	35	<0.01	<0.01	6.9
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	9.5	37	2.6	45	0.02	0.02	8.9
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	2.7	7.5	0.5	9.9	<0.01	<0.01	2.6

All tests undertaken between 08-Aug-2008 and 8-Aug-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
15 August 2008

Dear C Wilkinson

Test Report Number **100805**

Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 13 August 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 13 August 2008

Durham Rd, Newport

Chemtest

Report Date
15 August 2008

Login Batch No					100805	
Chemtest LIMS ID					AD34085	AD34086
Sample ID					TP616	TP913
Sample No					G02A	S04
Depth						
Matrix					*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*		
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.02	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.11	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.08	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.1	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.09	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.03	<0.01

All tests undertaken between 15-Aug-2008 and 15-Aug-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
26 August 2008

Dear Christian Wilkinson

Test Report Number **100869**

Your Project Reference **Durham Road - F15285**

Please find enclosed the results of analysis for the samples received 19 August 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 19 August 2008

Durham Road - F15285

Chemtest

Report Date
26 August 2008

Login Batch No					100869	
Chemtest LIMS ID					AD36502	AD36503
Sample ID					TP913	TP913
Sample No					505	506
Depth						
Matrix					*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*		
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01

All tests undertaken between 26-Aug-2008 and 26-Aug-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
03 September 2008

Dear Christian Wilkinson

Test Report Number **91851**

Your Project Reference **Durham Rd, Newport - F15285**

Please find enclosed the results of analysis for the samples received 26 August 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson

LABORATORY TEST REPORT

Results of analysis of 5 samples
received 26 August 2008

Durham Rd, Newport - F15285

Chemtest

Report Date
03 September 2008

Login Batch No					91851				
Chemtest LIMS ID					AD39522	AD39523	AD39524	AD39525	AD39526
Sample ID					CS01	CS02	CS03	CS04	CS05
Sample No									
Depth									
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*					
2450	Arsenic	7440382	mg kg⁻¹	M	50	39	74	73	77
	Cadmium	7440439	mg kg⁻¹	M	1.6	39	88	2.3	47
	Chromium	7440473	mg kg⁻¹	M	23	24	25	27	31
	Lead	7439921	mg kg⁻¹	M	142	1327	3654	102	3038
	Mercury	7439976	mg kg⁻¹	M	0.2	0.4	0.7	0.1	0.8
	Nickel	7440020	mg kg⁻¹	M	12	25	35	14	34
	Selenium	7782492	mg kg⁻¹	M	0.9	0.4	0.4	0.6	<0.2
2670	Total Petroleum Hydrocarbons		mg kg⁻¹	M	< 10	< 10	< 10	< 10	< 10
2701	PAH (total EPA 16)		mg kg⁻¹	M	<2	<2	<2	<2	<2
2760	Benzene	71432	µg kg⁻¹	M	<1	<1	<1	<1	<1
	Toluene	108883	µg kg⁻¹	M	<1	<1	<1	<1	<1
	Ethyl benzene	100414	µg kg⁻¹	M	<1	<1	<1	<1	<1
	m- & p-Xylene	1330207	µg kg⁻¹	M	<1	<1	<1	<1	<1
	o-Xylene	95476	µg kg⁻¹	M	<1	<1	<1	<1	<1
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg⁻¹	N	<0.1	<0.1	<0.1	<0.1	<0.1
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg⁻¹	N	<0.1	<0.1	<0.1	<0.1	<0.1
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg⁻¹	N	<0.1	<0.1	<0.1	<0.1	<0.1
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg⁻¹	N	<0.1	<0.1	<0.1	<0.1	<0.1
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg⁻¹	N	<0.1	<0.1	<0.1	<0.1	<0.1
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg⁻¹	N	<0.1	<0.1	<0.1	<0.1	<0.1
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg⁻¹	N	<0.1	<0.1	<0.1	<0.1	<0.1
2920	Phenols (total)		mg kg⁻¹	M	<0.3	<0.3	<0.3	<0.3	<0.3

All tests undertaken between 28-Aug-2008 and 2-Sep-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
08 September 2008

Dear Christian Wilkinson

Test Report Number **91957**

Your Project Reference **Durham Rd, Newport - F15285**

Please find enclosed the results of analysis for the samples received 3 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson

LABORATORY TEST REPORT

Results of analysis of 5 samples received 03 September 2008

Durham Rd, Newport - F15285

Chemtest

Report Date
08 September 2008

Login Batch No					91957				
Chemtest LIMS ID					AD42349	AD42350	AD42351	AD42352	AD42353
Sample ID					TP914	TP913	TP913	TP913	TP913
Sample No					S05	G01	G02	G03	G04
Depth									
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*					
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01

All tests undertaken between 08-Sep-2008 and 8-Sep-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
17 September 2008

Dear Christian Wilkinson

Test Report Number **92070**

Your Project Reference **Durham Rd, Newport F15285**

Please find enclosed the results of analysis for the samples received 11 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson

LABORATORY TEST REPORT

Results of analysis of 2 samples received 11 September 2008

Durham Rd, Newport F15285

Chemtest

Report Date
17 September 2008

Login Batch No					92070	
Chemtest LIMS ID					AD45634	AD45635
Sample ID					TP910	TP910
Sample No					S01	S02
Depth						
Matrix					*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*		
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	0.04	0.06
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.02	0.1
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.03	0.5
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.02	0.4
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.04	0.4
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.04	0.4
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.03	0.5

All tests undertaken between 17-Sep-2008 and 17-Sep-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
18 September 2008

Dear C Wilkinson

Test Report Number **101231**

Your Project Reference **Durham Road, Newport**

Please find enclosed the results of analysis for the samples received 16 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 2 samples received 16 September 2008

Durham Road, Newport

Chemtest

Report Date
18 September 2008

Login Batch No					101231	
Chemtest LIMS ID					AD47440	AD47441
Sample ID					TP910	TP910
Sample No					S03	S04
Depth						
Matrix					*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*		
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	0.07
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	0.09
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.01	0.3
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	0.2
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.01	0.2
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.01	0.2
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.01	0.3

All tests undertaken between 18-Sep-2008 and 18-Sep-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
24 September 2008

Dear C Wilkinson

Test Report Number **101283**
Your Project Reference **Durham Road, Newport**

Please find enclosed the results of analysis for the samples received 19 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall	Laboratory Manager
□ Phil Hellier	Operations Director
☒ Keith Jones	Technical Development Chemist
□ John Crawford	Quality Manager
□ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

LABORATORY TEST REPORT

Results of analysis of 5 samples received 19 September 2008

Durham Road, Newport

Chemtest

Report Date
24 September 2008

FAO C Wilkinson

Login Batch No					101283				
Chemtest LIMS ID					AD48454	AD48455	AD48456	AD48457	AD48458
Sample ID					TP913	TP913	TP913	TP913	TP913
Sample No					FACE B	C	D	E1	E2
Depth									
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*					
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	<0.01	0.1	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	<0.01	<0.01	0.3	0.3
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01	<0.01	0.7	0.7
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01	<0.01	0.6	0.6
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	<0.01	1.1	0.6

All tests undertaken between 24-Sep-2008 and 24-Sep-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
26 September 2008

Dear Christian Wilkinson

Test Report Number **74294**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 22 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☑ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

LABORATORY TEST REPORT

Results of analysis of 6 samples
received 22 September 2008

Durham Rd, Newport

Report Date
26 September 2008

FAO Christian Wilkinson

Login Batch No					74294					
Chemtest LIMS ID					AD48897	AD48898	AD48899	AD48900	AD48901	AD48902
Sample ID					TP908	TP908	TP908	TP908	TP616	TP616
Sample No					A	B1	E1	E2	C	E2
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.2	0.5	<0.01	<0.01	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.3	2.1	<0.01	0.02	0.2	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.2	1.7	<0.01	0.01	0.2	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.8	4.6	0.1	0.04	0.3	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.5	3.8	<0.01	0.03	0.2	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.5	3.0	<0.01	0.03	<0.01	<0.01

All tests undertaken between 19-Sep-2008 and 19-Sep-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
26 September 2008

Dear C Wilkinson

Test Report Number **101316**
Your Project Reference **F15285 - Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 23 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☑ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 3 samples received 23 September 2008

F15285 - Durham Rd, Newport

Chemtest

Report Date
26 September 2008

Login Batch No					101316		
Chemtest LIMS ID					AD49141	AD49142	AD49143
Sample ID					S02	S03	S04
Sample No							
Depth							
Matrix					*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	0.5
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	<0.01	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	1.4	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	0.8	0.7
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	1.5	<0.01

All tests undertaken between 26-Sep-2008 and 26-Sep-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
26 September 2008

Dear C Wilkinson

Test Report Number **101314**
Your Project Reference **F15285 - Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 23 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

KTJones

Authorised Signatory

☐ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 5 samples received 23 September 2008

F15285 - Durham Rd, Newport

Chemtest

Report Date
26 September 2008

Login Batch No					101314				
Chemtest LIMS ID					AD49126	AD49127	AD49128	AD49129	AD49130
Sample ID					G01	G02	G03	G04	G05
Sample No									
Depth									
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*					
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	4.2	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	3.6	<0.01	<0.01	1.4	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	7.6	2.2	2.9	3.5	4.2
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	3.9	0.01	1.6	1.9	2.2
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	16	4.7	5.9	7.2	8.2
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	12	3.4	4.5	5.0	6.3
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	11	3.1	4.4	4.9	5.6

All tests undertaken between 26-Sep-2008 and 26-Sep-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
29 September 2008

Dear C Wilkinson

Test Report Number **101351**
Your Project Reference **F15285 - Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 25 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall	Laboratory Manager
□ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Chemist
□ John Crawford	Quality Manager
□ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 6 samples received 25 September 2008

F15285 - Durham Rd, Newport

Chemtest

Report Date
29 September 2008

Login Batch No					101351					
Chemtest LIMS ID					AD49894	AD49895	AD49896	AD49897	AD49898	AD49899
Sample ID					A	B	C	E1	E2	S01
Sample No										
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	<0.01	0.07	<0.01	0.2
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.2
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.1
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.1
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.1
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.1
Sub	Actinolite	77536664		SU			Not detected			
	Amosite	12172735		SU			Not detected			
	Anthophyllite	77536675		SU			Not detected			
	Chrysotile	12001295		SU			Detected			
	Crocidolite	12001284		SU			Not detected			
	Tremolite	77536686		SU			Not detected			

All tests undertaken between 29-Sep-2008 and 29-Sep-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
29 September 2008

Dear C Wilkinson

Test Report Number **101352**
Your Project Reference **F15285 - Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 25 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

KT Jones

Authorised Signatory

☐ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 3 samples received 25 September 2008

F15285 - Durham Rd, Newport

Chemtest

Report Date
29 September 2008

Login Batch No					101352		
Chemtest LIMS ID					AD49900	AD49901	AD49902
Sample ID					TP616	TP616	TP908
Sample No					B	E1	S02
Depth							
Matrix					*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	1.1
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.4	0.02	2.0
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.5	0.1	4.8
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	0.07	3.6
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	0.05	7.8
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.2	0.07	6.5
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	5.3

All tests undertaken between 29-Sep-2008 and 29-Sep-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
02 October 2008

Dear Christian Wilkinson

Test Report Number **101380**
Your Project Reference **F15285 - Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 29 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

KT Jones

Authorised Signatory

☐ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☒ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson

LABORATORY TEST REPORT

Results of analysis of 5 samples received 29 September 2008

F15285 - Durham Rd, Newport

Chemtest

Report Date
02 October 2008

Login Batch No					101380				
Chemtest LIMS ID					AD50507	AD50508	AD50509	AD50510	AD50511
Sample ID					TP905	TP616	TP616	TP908	TP908
Sample No					S03	D	E3	D	E3
Depth									
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*					
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	8.4	<0.01	0.03	2.7	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	13	<0.01	0.2	3.2	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	14	0.2	0.5	5.4	0.1
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	8.3	0.2	0.3	4.0	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	21	0.3	1.0	11	0.2
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	20	0.2	0.9	8.7	0.2
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	23	0.2	0.8	8.0	0.2

All tests undertaken between 01-Oct-2008 and 2-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
02 October 2008

Dear Christian Wilkinson

Test Report Number **101381**
Your Project Reference **F15285 - Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 29 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall	Laboratory Manager
□ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Chemist
□ John Crawford	Quality Manager
□ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson

LABORATORY TEST REPORT

Results of analysis of 6 samples received 29 September 2008

F15285 - Durham Rd, Newport

Report Date
02 October 2008

Login Batch No					101381					
Chemtest LIMS ID					AD50526	AD50527	AD50528	AD50529	AD50530	AD50531
Sample ID					TP905	TP905	TP905	TP905	TP905	TP905
Sample No					B2	B3	C	D	E2	E3
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	2.6	3.6	1.3	0.2	<0.01	0.6
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	3.6	5.4	1.1	0.4	0.2	0.8
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	7.8	8.4	1.8	0.8	0.5	2.2
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	5.6	5.8	4.6	0.7	0.5	1.6
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	7.2	8.1	1.2	0.9	0.8	1.7
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	8.1	9.9	1.7	0.8	0.8	2.0
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	3.5	5.8	0.5	0.5	0.8	1.1

All tests undertaken between 02-Oct-2008 and 2-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
03 October 2008

Dear Christian Wilkinson

Test Report Number **74389**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 30 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☐ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson

LABORATORY TEST REPORT

Results of analysis of 3 samples
received 30 September 2008

Durham Rd, Newport

Chemtest

Report Date
03 October 2008

Login Batch No					74389		
Chemtest LIMS ID					AD51062	AD51063	AD51064
Sample ID					TP908	TP902	TP00
Sample No					B1	S05	S01
Depth							
Matrix					*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	1.8	27
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	7.7	42
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.01	16	120
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	16	99
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.02	18	100
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.02	24	100
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.01	11	44

All tests undertaken between 02-Oct-2008 and 3-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
06 October 2008

Dear Christian Wilkinson

Test Report Number **74412**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 2 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

IKT Jones

Authorised Signatory

□ Darrell Hall	Laboratory Manager
□ Phil Hellier	Operations Director
□ Keith Jones	Technical Development Chemist
□ John Crawford	Quality Manager
□ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson

LABORATORY TEST REPORT

Results of analysis of 3 samples
received 02 October 2008

Durham Rd, Newport

Chemtest

Report Date
06 October 2008

Login Batch No					74412		
Chemtest LIMS ID					AD51658	AD51659	AD51660
Sample ID					TP908	TP908	TP908
Sample No					So2a	So2b	So2c
Depth							
Matrix					*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	0.04	0.4	0.2
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.3	0.4	0.2
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.9	1.0	0.6
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.6	0.9	0.4
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	1.8	1.8	1.2
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	1.7	1.7	1.0
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	1.8	1.7	1.4

All tests undertaken between 06-Oct-2008 and 6-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
07 October 2008

Dear C Wilkinson

Test Report Number **74445**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 6 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

KT Jones

Authorised Signatory

□ Darrell Hall	Laboratory Manager
□ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Chemist
□ John Crawford	Quality Manager
□ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 6 samples
received 06 October 2008

Durham Rd, Newport

Chemtest

Report Date
07 October 2008

Login Batch No					74445					
Chemtest LIMS ID					AD52420	AD52421	AD52422	AD52423	AD52424	AD52425
Sample ID					TP635A	TP635A	TP635A	TP635A	TP635A	TP635A
Sample No					S05	S06	S07	S08	S09	S10
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.03	0.09	0.02	<0.01	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.05	0.1	0.05	0.02	<0.01	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.03	<0.01	<0.01	0.03	<0.01	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.03	0.1	<0.01	0.03	0.01	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.05	<0.01	<0.01	<0.01	<0.01	<0.01

All tests undertaken between 07-Oct-2008 and 7-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
07 October 2008

Dear C Wilkinson

Test Report Number **74446**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 6 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

KT Jones

Authorised Signatory

□ Darrell Hall	Laboratory Manager
□ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Chemist
□ John Crawford	Quality Manager
□ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

LABORATORY TEST REPORT

Results of analysis of 6 samples
received 06 October 2008

Durham Rd, Newport

Chemtest

Report Date
07 October 2008

FAO C Wilkinson

Login Batch No					74446					
Chemtest LIMS ID					AD52433	AD52434	AD52435	AD52436	AD52437	AD52438
Sample ID					TP635A	TP635A	TP635A	TP635A	TP635A	TP635A
Sample No					S11	S12	S13	S14	E3	E4
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	0.09	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	0.07	0.5	0.01	0.02
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.02	<0.01	0.3	2.1	0.06	0.2
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	0.2	1.6	0.05	0.4
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01	0.3	1.5	0.05	0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01	0.3	1.7	0.07	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	<0.01	0.6	<0.01	<0.01

All tests undertaken between 07-Oct-2008 and 7-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
08 October 2008

Dear Christian Wilkinson

Test Report Number **74443**
Your Project Reference **Durham Road, Newport**

Please find enclosed the results of analysis for the samples received 6 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

KT Jones

Authorised Signatory

☐ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 06 October 2008

Durham Road, Newport

Chemtest

Report Date
08 October 2008

Login Batch No					74443			
Chemtest LIMS ID					AD52387	AD52388	AD52389	AD52390
Sample ID					TP634	TP634	TP634	TP634
Sample No					A	B	D	E
Depth								
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	0.08	<0.01	0.02	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.04	<0.01	0.02	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.03	<0.01	0.05	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.02	<0.01	0.04	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.03	<0.01	0.06	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.03	<0.01	0.05	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01

All tests undertaken between 07-Oct-2008 and 7-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
08 October 2008

Dear C Wilkinson

Test Report Number **74444**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 6 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall	Laboratory Manager
□ Phil Hellier	Operations Director
☒ Keith Jones	Technical Development Chemist
□ John Crawford	Quality Manager
□ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 12 samples
received 06 October 2008

Durham Rd, Newport

Chemtest

Report Date
08 October 2008

Login Batch No					74444							
Chemtest LIMS ID					AD52407	AD52408	AD52409	AD52410	AD52411	AD52412	AD52413	AD52414
Sample ID					TP635A	TP905	TP905	TP905	TP905	TP905	TP635A	TP635A
Sample No					A	B1	B2	B3	C2	E1	B1	B2
Depth												
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*								
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.04	0.03	<0.01	<0.01	0.02	0.5	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	0.04	<0.01	<0.01	0.1	3.1	0.06	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	3.5	0.08	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	3.3	0.09	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	0.1	3.6	0.08	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	1.7	<0.01	<0.01

All tests undertaken between 07-Oct-2008 and 8-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 12 samples
received 06 October 2008

Durham Rd, Newport

Chemtest

Report Date
08 October 2008

Login Batch No					74444			
Chemtest LIMS ID					AD52415	AD52416	AD52417	AD52418
Sample ID					TP635A	TP635A	TP635A	TP635A
Sample No					B3	B4	E1	E2
Depth								
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	0.04	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	<0.01	0.1	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	0.1	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01	0.1	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01	0.2	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	0.1	<0.01

All tests undertaken between 07-Oct-2008 and 8-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
15 October 2008

Dear C Wilkinson

Test Report Number **74512**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 13 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☑ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 6 samples
received 13 October 2008

Durham Rd, Newport

Chemtest

Report Date
15 October 2008

Login Batch No					74512					
Chemtest LIMS ID					AD54487	AD54488	AD54489	AD54490	AD54491	AD54492
Sample ID					636D	636D	636D	636D	636D	636D
Sample No					B	C	D	E	S01	S02
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	0.05	0.23	0.2	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.03	0.15	0.2	<0.01	0.4	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.02	<0.01	0.6	<0.01	1.7	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	0.5	<0.01	1.4	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.04	0.07	0.9	<0.01	1.9	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.04	0.08	0.8	<0.01	1.9	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.1	<0.01	1.1	<0.01	1.8	<0.01

All tests undertaken between 10-Oct-2008 and 10-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
15 October 2008

Dear C Wilkinson

Test Report Number **74513**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 13 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☑ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 8 samples
received 13 October 2008

Durham Rd, Newport

Chemtest

Report Date
15 October 2008

Login Batch No					74513							
Chemtest LIMS ID					AD54493	AD54494	AD54495	AD54496	AD54497	AD54498	AD54499	AD54500
Sample ID					TP656B	TP656B	TP656B	TP656B	TP656C	TP656C	TP656C	TP656C
Sample No					A	B	D	E	B	C	D	E
Depth												
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*								
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.03	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.3	0.1	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.4	0.09	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.08	0.3	0.06	0.09	<0.01	<0.01	<0.01	<0.01

All tests undertaken between 10-Oct-2008 and 10-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson
15 October 2008

Dear Christiaan Wilkinson

Test Report Number **48497**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 13 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☑ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 13 October 2008

Durham Rd, Newport

Report Date
15 October 2008

Login Batch No					48497			
Chemtest LIMS ID					AD54387	AD54388	AD54389	AD54390
Sample ID					TP636 C	TP636 C	TP636 C	TP636 C
Sample No					S01	B	D	E
Depth								
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	0.01	0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	<0.01	<0.01	0.07
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	<0.01	0.61
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01	<0.01	0.47
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01	<0.01	0.65
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	<0.01	9.4

All tests undertaken between 10-Oct-2008 and 10-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson
15 October 2008

Dear Christiaan Wilkinson

Test Report Number **74496**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 13 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

☐ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

Authorised Signatory

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson

LABORATORY TEST REPORT

Results of analysis of 6 samples
received 13 October 2008

Durham Rd, Newport

Chemtest

Report Date
15 October 2008

Login Batch No					74496					
Chemtest LIMS ID					AD54129	AD54130	AD54131	AD54132	AD54133	AD54134
Sample ID					TP915	TP915	TP915	TP915	TP915	TP00
Sample No					A	B	C	D	E	S02
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2450	Arsenic	7440382	mg kg⁻¹	M						26
	Cadmium	7440439	mg kg⁻¹	M						6.4
	Chromium	7440473	mg kg⁻¹	M						36
	Mercury	7439976	mg kg⁻¹	M						19
	Nickel	7440020	mg kg⁻¹	M						70
	Lead	7439921	mg kg⁻¹	M						317
	Selenium	7782492	mg kg⁻¹	M						1.1
2675	TPH aliphatic >C5-C6		mg kg⁻¹	N						< 0.1
	TPH aliphatic >C6-C8		mg kg⁻¹	N						< 0.1
	TPH aliphatic >C8-C10		mg kg⁻¹	N						< 0.1
	TPH aliphatic >C10-C12		mg kg⁻¹	N						18
	TPH aliphatic >C12-C16		mg kg⁻¹	N						220
	TPH aliphatic >C16-C21		mg kg⁻¹	N						1200
	TPH aliphatic >C21-C35		mg kg⁻¹	N						7700
	TPH aromatic >C5-C7		mg kg⁻¹	N						< 0.1
	TPH aromatic >C7-C8		mg kg⁻¹	N						< 0.1
	TPH aromatic >C8-C10		mg kg⁻¹	N						110
	TPH aromatic >C10-C12		mg kg⁻¹	N						19
	TPH aromatic >C12-C16		mg kg⁻¹	N						49
	TPH aromatic >C16-C21		mg kg⁻¹	N						63
	TPH aromatic >C21-C35		mg kg⁻¹	N						350
	Total Petroleum Hydrocarbons		mg kg⁻¹	N						9900
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg⁻¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg⁻¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg⁻¹	N	<0.01	<0.01	<0.01	<0.01	0.01	
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg⁻¹	N	<0.01	<0.01	<0.01	<0.01	0.01	
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg⁻¹	N	<0.01	<0.01	<0.01	<0.01	0.01	
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg⁻¹	N	<0.01	<0.01	<0.01	<0.01	0.01	
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg⁻¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	

All tests undertaken between 10-Oct-2008 and 15-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
16 October 2008

Dear C Wilkinson

Test Report Number **74528**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 14 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☑ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 7 samples
received 14 October 2008

Durham Rd, Newport

Chemtest

Report Date
16 October 2008

Login Batch No					74528						
Chemtest LIMS ID					AD54762	AD54763	AD54764	AD54765	AD54766	AD54767	AD54768
Sample ID					TP636C	TP636C	TP656B	TP656B	TP656C	TP656C	TP915
Sample No					A	S02	S01	S02	S01	S02	S01
Depth											
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*							
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	0.3	<0.01	0.2	<0.01	6.7
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	0.4	<0.01	0.4	<0.01	3.0
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	<0.01	1.2	<0.01	1.1	<0.01	0.7
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	1.2	<0.01	1.6	<0.01	0.6
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01	3.6	<0.01	3.3	<0.01	0.9
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01	4.0	<0.01	3.8	<0.01	0.6
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.05	<0.01	14	0.9	12	<0.01	0.9

All tests undertaken between 10-Oct-2008 and 10-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson
17 October 2008

Dear Christiaan Wilkinson

Test Report Number **74542**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 15 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☐ Darrell Hall	Laboratory Manager
☑ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Chemist
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

LABORATORY TEST REPORT

Results of analysis of 3 samples
received 15 October 2008

Durham Rd, Newport

Report Date
17 October 2008

FAO Christiaan Wilkinson

Login Batch No					74542		
Chemtest LIMS ID					AD54960	AD54961	AD54962
Sample ID					TP914	TP914	TP635A
Sample No					S06	S07	S15
Depth							
Matrix					*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	<0.01	0.04
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	0.02
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01	0.04
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01	0.05
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	<0.01
2030	Moisture		%	n/a	15.2	13.2	15.5
	Stone content (as received)		%	n/a	<0.02	<0.02	<0.02
2140	Soil colour			n/a	brown	brown	brown
	Soil texture			n/a	sand	sand	clay
	Other material			n/a	stones	stones	stones

All tests undertaken between 16-Oct-2008 and 17-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson
22 October 2008

Dear Christiaan Wilkinson

Test Report Number **56121**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 20 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☐ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Manager
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 20 October 2008

Durham Rd, Newport

Report Date
22 October 2008

Login Batch No					**56121**
Chemtest LIMS ID					AD56542
Sample ID					TP636 C
Sample No					E
Depth					
Matrix					*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.09

All tests undertaken between 21-Oct-2008 and 21-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
24 October 2008

Dear C Wilkinson

Test Report Number **74619**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 22 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

KT Jones

Authorised Signatory

□ Darrell Hall	Laboratory Manager
□ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Manager
□ John Crawford	Quality Manager
□ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 5 samples
received 22 October 2008

Durham Rd, Newport

Chemtest

Report Date
24 October 2008

Login Batch No					74619				
Chemtest LIMS ID					AD56984	AD56985	AD56986	AD56987	AD56988
Sample ID					TP656C	TP656C	TP656C	TP656B	TP656B
Sample No					So1a	So1b	So1c	So1a	So1b
Depth									
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*					
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	0.5
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.03	0.2	0.08	0.07	0.6
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.2	0.5	0.3	0.2	0.2
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.5	0.3	0.3	0.8	2.3
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.7	1.8	2.3	1.0	4.8
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	1.3	1.6	2.2	1.9	6.3
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.8	9.3	14	1.3	9.2

All tests undertaken between 24-Oct-2008 and 24-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
27 October 2008

Dear C Wilkinson

Test Report Number **74631**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 23 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☑ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Manager
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 9 samples
received 23 October 2008

Durham Rd, Newport

Chemtest

Report Date
27 October 2008

Login Batch No					74631							
Chemtest LIMS ID					AD57366	AD57367	AD57368	AD57369	AD57370	AD57371	AD57372	AD57373
Sample ID					TP902	TP902	TP902	TP902	TP902	TP902	TP902	TP635A
Sample No					A2	A3	B2	E2	E3	E4	E5	D
Depth												
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*								
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	0.5	<0.01	<0.01	<0.01	1.1	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.7	<0.01	<0.01	<0.01	4.2	0.03	<0.01	0.3
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	2.1	<0.01	<0.01	0.1	13	0.09	<0.01	1.2
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	1.4	<0.01	<0.01	0.3	2.2	0.2	<0.01	1.4
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	1.5	<0.01	<0.01	0.4	17	0.3	0.02	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	2.5	<0.01	<0.01	0.6	18	0.3	<0.01	1.7
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	<0.01	0.3	4.6	0.2	<0.01	1.4

All tests undertaken between 27-Oct-2008 and 27-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 9 samples
received 23 October 2008

Durham Rd, Newport

Chemtest

Report Date
27 October 2008

Login Batch No					74631
Chemtest LIMS ID					AD57374
Sample ID					TP635A
Sample No					E5
Depth					
Matrix					*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01

All tests undertaken between 27-Oct-2008 and 27-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
30 October 2008

Dear C Wilkinson

Test Report Number **74678**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 28 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☐ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☑ Keith Jones	Technical Development Manager
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 23 samples
received 28 October 2008

Durham Rd, Newport

Chemtest

Report Date
30 October 2008

Login Batch No					74678							
Chemtest LIMS ID					AD58705	AD58706	AD58707	AD58708	AD58709	AD58710	AD58711	AD58712
Sample ID					TP902	TP902	TP902	TP902	TP902	TP902	TP914	TP914
Sample No					A1	B1	D	E1	S06	S07	A1	A2
Depth												
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*								
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	<0.01	0.2	0.1	0.05	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	<0.01	<0.01	<0.01	0.5	0.2	0.1	<0.01	0.2
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	<0.01	<0.01	<0.01	0.4	0.3	0.08	<0.01	0.1
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01	<0.01	<0.01	0.5	0.3	0.2	<0.01	0.5
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01	<0.01	0.16	0.5	0.3	0.2	<0.01	0.4
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.01	0.4

All tests undertaken between 29-Oct-2008 and 30-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 23 samples
received 28 October 2008

Durham Rd, Newport

Chemtest

Report Date
30 October 2008

Login Batch No					74678							
Chemtest LIMS ID					AD58713	AD58714	AD58715	AD58716	AD58717	AD58718	AD58719	AD58720
Sample ID					TP914	TP914	TP914	TP914	TP914	TP914	TP656A	TP656A
Sample No					D1	D2	E1	E2	S08	S09	A	B
Depth												
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*								
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg⁻¹	N	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg⁻¹	N	<0.01	<0.01	0.2	0.01	0.1	<0.01	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg⁻¹	N	<0.01	<0.01	0.5	0.06	0.1	0.2	<0.01	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg⁻¹	N	<0.01	<0.01	0.4	<0.01	<0.01	0.2	<0.01	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg⁻¹	N	<0.01	<0.01	0.9	0.1	<0.01	<0.01	<0.01	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg⁻¹	N	0.06	<0.01	0.6	0.2	<0.01	0.3	<0.01	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg⁻¹	N	0.1	<0.01	0.8	0.2	<0.01	0.4	<0.01	<0.01

All tests undertaken between 29-Oct-2008 and 30-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 23 samples
received 28 October 2008

Durham Rd, Newport

Chemtest

Report Date
30 October 2008

Login Batch No					74678						
Chemtest LIMS ID					AD58721	AD58722	AD58723	AD58724	AD58725	AD58726	AD58727
Sample ID					TP656A	TP656A	TP656A	TP656A	TP656A	TP636	TP905
Sample No					C	D	E	S01	S02	S01	D
Depth											
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*							
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg⁻¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg⁻¹	N	<0.01	0.09	<0.01	<0.01	<0.01	0.02	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg⁻¹	N	<0.01	0.2	<0.01	0.07	<0.01	0.1	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg⁻¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg⁻¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg⁻¹	N	<0.01	0.2	<0.01	<0.01	<0.01	0.2	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg⁻¹	N	<0.01	0.2	<0.01	<0.01	<0.01	0.3	<0.01

All tests undertaken between 29-Oct-2008 and 30-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
31 October 2008

Dear C Wilkinson

Test Report Number **74685**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 29 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☑ Darrell Hall	Laboratory Manager
☐ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Manager
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 9 samples
received 29 October 2008

Durham Rd, Newport

Chemtest

Report Date
31 October 2008

Login Batch No					74685							
Chemtest LIMS ID					AD58911	AD58912	AD58913	AD58914	AD58915	AD58916	AD58917	AD58918
Sample ID					TP636	TP636	TP636	TP636	TP636	TP636	TP636	TP656
Sample No					A1	B1	B2	C	D	E	A2	E
Depth												
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*								
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

All tests undertaken between 31-Oct-2008 and 31-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 9 samples
received 29 October 2008

Durham Rd, Newport

Chemtest

Report Date
31 October 2008

Login Batch No					74685
Chemtest LIMS ID					AD58919
Sample ID					TP902
Sample No					E3
Depth					
Matrix					*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.3
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.4
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	<0.01

All tests undertaken between 31-Oct-2008 and 31-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
31 October 2008

Dear C Wilkinson

Test Report Number **74702**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 30 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☐ Darrell Hall	Laboratory Manager
☑ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Manager
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 3 samples
received 30 October 2008

Durham Rd, Newport

Chemtest

Report Date
31 October 2008

Login Batch No					74702		
Chemtest LIMS ID					AD59236	AD59237	AD59238
Sample ID					TP656	TP656	TP656
Sample No					B	C	D
Depth							
Matrix					*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.2	0.02	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.1	<0.01	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.3	<0.01	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.2	<0.01	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.4	<0.01	<0.01

All tests undertaken between 31-Oct-2008 and 31-Oct-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson
05 November 2008

Dear C Wilkinson

Test Report Number **74729**
Your Project Reference **Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 3 November 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

K Jones

Authorised Signatory

☐	Darrell Hall	Laboratory Manager
☐	Phil Hellier	Operations Director
☒	Keith Jones	Technical Development Manager
☐	John Crawford	Quality Manager
☐	Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 11 samples
received 03 November 2008

Durham Rd, Newport

Chemtest

Report Date
05 November 2008

Login Batch No					74729							
Chemtest LIMS ID					AD60037	AD60038	AD60039	AD60040	AD60041	AD60042	AD60043	AD60044
Sample ID					TP902	TP914	TP914	TP914	TP914	TP914	TP910	TP910
Sample No					C	C	D3	D4	E3	E4	B	C
Depth												
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*								
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.03	0.06	<0.01	0.02	<0.01	<0.01	0.02	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.03	<0.01	<0.01	0.02	<0.01	<0.01	0.03	<0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.04	0.1	<0.01	0.03	<0.01	<0.01	0.03	<0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	0.02	0.2	0.01	0.05	0.01	<0.01	0.05	<0.01

All tests undertaken between 04-Nov-2008 and 5-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 11 samples
received 03 November 2008

Durham Rd, Newport

Chemtest

Report Date
05 November 2008

Login Batch No					74729		
Chemtest LIMS ID					AD60045	AD60046	AD60047
Sample ID					TP910	TP910	TP910
Sample No					D	E1	E2
Depth							
Matrix					*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	3.0	<0.01	<0.01
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	8.0	<0.01	<0.01
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	28	0.04	<0.01
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	30	0.1	<0.01
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	37	0.2	0.01
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	53	0.3	0.01
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	27	0.9	0.02

All tests undertaken between 04-Nov-2008 and 5-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Chemtest

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson
24 March 2009

Dear Christiaan Wilkinson

Test Report Number **56953**
Your Project Reference **F15285 - Durham Rd, Newport**

Please find enclosed the results of analysis for the samples received 20 March 2009.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

☐ Darrell Hall	Laboratory Manager
☑ Phil Hellier	Operations Director
☐ Keith Jones	Technical Development Manager
☐ John Crawford	Quality Manager
☐ Malcolm Avis	Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christiaan Wilkinson

LABORATORY TEST REPORT

Results of analysis of 4 samples received 20 March 2009

F15285 - Durham Rd, Newport

Report Date 24 March 2009

Login Batch No					56953			
Chemtest LIMS ID					AD90718	AD90719	AD90720	AD90721
Sample ID					SP01	SP01	SP01	SP01
Sample No					ES02	ES03	ES04	ES05
Depth								
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	0.17	0.54	0.31	0.45
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	0.32	1.2	0.70	0.67
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	0.70	2.7	2.7	2.0
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	0.49	1.8	5.4	1.4
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	0.69	2.8	2.1	1.9
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	0.79	3.7	3.2	2.1
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	1.1	3.1	3.0	2.2

All tests undertaken between 24-Mar-2009 and 24-Mar-2009

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO C Wilkinson

LABORATORY TEST REPORT

Results of analysis of 2 samples received 01 April 2009

F15285 Durham Rd, Newport

Chemtest
The right chemistry to deliver results

Report Date
03 April 2009

Login Batch No					75958	
Chemtest LIMS ID					AD93526	AD93527
Sample ID					SP01	SP01
Sample No					ES06	ES07
Depth						
Matrix					*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*		
2810	2,4,4'-Trichlorobiphenyl	7012375	mg kg-¹	N	1.6	6.9
	2,2',5,5'-Tetrachlorobiphenyl	35693993	mg kg-¹	N	2.6	8.6
	2,2',4,5,5'-Pentachlorobiphenyl	37680732	mg kg-¹	N	11	25
	2,3,4,4',5-Pentachlorobiphenyl	31508006	mg kg-¹	N	9.6	22
	2,2',3,4,4',5-Hexachlorobiphenyl	35065282	mg kg-¹	N	17	34
	2,2',4,4',5,5'-Hexachlorobiphenyl	35065271	mg kg-¹	N	18	34
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293	mg kg-¹	N	18	54

All tests undertaken between 03-Apr-2009 and 3-Apr-2009

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

The Harley Reed Building
Unit C, Drury Lane
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BA
Telephone (01424) 718618
Facsimile (01424) 729911

2683 2683

THE ENVIRONMENTAL LABORATORY LTD

F.A.O. Nick McSwiggan
Land Clean Limited
First Floor, Unit 10
Rotherbrook Court, Bedford Road
Petersfield, Hants. GU32 3QG

Reporting Date: 30/03/2009

ANALYTICAL REPORT No. AR20044

Samples Received By:-	Courier
Samples Received:-	24/03/09
Site Location:	Stabilisation trial
No Samples Received:-	1
Date of Sampling	19/03/09

Report Checked By:-

Steve Knight
Director

Authorised By:-

Cliff P.V. Knight BSc, EurChem, CChem FRSC
Managing Director

Any comments, opinions, or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

THE ENVIRONMENTAL LABORATORY LTD

The Harley Reed Building, Unit C, Drury Lane, Ponswood Industrial Estate, St Leonard's on Sea, East Sussex, TN38 9BA

Tel: 01424 718618 Fax: 01424 729911

UKAS TESTING 2683 mCERTS 2683

ANALYTICAL REPORT No. AR20044

Location: Stabilisation trial

F.A.O. Nick McSwiggan
Land Clean Limited
First Floor, Unit 10
Rotherbrook Court, Bedford Road
Petersfield, Hants. GU32 3QG

Reporting Date: 30/03/09

Soil		Characteristic	Silt Loam
		Date Sampled	19/03/09
		TP/BH	Scrape Area DW1
		Our ref	16439
Arsenic**	(mg/kg)		18.0
Cadmium**	(mg/kg)		2.3
Chromium**	(mg/kg)		45
Lead**	(mg/kg)		354
Mercury**	(mg/kg)		15.6
Nickel**	(mg/kg)		50
Copper**	(mg/kg)		134
Zinc**	(mg/kg)		484
Selenium	(mg/kg)		1.8
Hexavalent Chromium	(mg/kg)		<2
Water Soluble Boron	(mg/kg)		1.5
PCB 28**	(µg/kg)		0.41
PCB 52**	(µg/kg)		1.75
PCB 101**	(µg/kg)		2.73
PCB 118**	(µg/kg)		3.22
PCB 138**	(µg/kg)		3.87
PCB 153**	(µg/kg)		2.89
PCB 180**	(µg/kg)		6.93

All results expressed on dry weight basis
** - MCERTS accredited test
* = UKAS accredited test

GP

THE ENVIRONMENTAL LABORATORY LTD

The Harley Reed Building, Unit C, Drury Lane, Ponswood Industrial Estate, St Leonard's on Sea, East Sussex, TN38 9BA

Tel: 01424 718618 Fax: 01424 729911

UKAS TESTING 2683 mCERTS 2683

ANALYTICAL REPORT No. AR20044

Location: Stabilisation trial

F.A.O. Nick McSwiggan
Land Clean Limited
First Floor, Unit 10
Rotherbrook Court, Bedford Road
Petersfield, Hants. GU32 3QG

Reporting Date: 30/03/09

Soil		Characteristic	Silt Loam
		Date Sampled	19/03/09
		TP/BH	Scrape Area DW1
		Our ref	16439
Naphthalene**	(mg/kg)		<0.5
Acenaphthylene**	(mg/kg)		<0.5
Acenaphthene**	(mg/kg)		<0.5
Fluorene**	(mg/kg)		<0.5
Phenanthrene**	(mg/kg)		0.6
Anthracene**	(mg/kg)		<0.5
Fluoranthene**	(mg/kg)		1.5
Pyrene**	(mg/kg)		0.8
Benz(a)anthracene**	(mg/kg)		<0.5
Chrysene**	(mg/kg)		<0.5
Benzo(b)fluoranthene**	(mg/kg)		<0.5
Benzo(k)fluoranthene**	(mg/kg)		<0.5
Benzo(a)pyrene**	(mg/kg)		<0.5
Indeno(123-cd)pyrene**	(mg/kg)		1.7
Dibenz(ah)anthracene**	(mg/kg)		0.6
Benzo(ghi)perylene**	(mg/kg)		1.6
Total PAH**	(mg/kg)		6.8

All results expressed on dry weight basis

** - MCERTS accredited test

GP

THE ENVIRONMENTAL LABORATORY LTD

The Harley Reed Building, Unit C, Drury Lane, Ponswood Industrial Estate, St Leonard's on Sea, East Sussex, TN38 9BA
Tel: 01424 718618 Fax: 01424 729911

UKAS TESTING 2683 mCERTS 2683

ANALYTICAL REPORT No. AR20044

Location: Stabilisation trial

F.A.O. Nick McSwiggan
Land Clean Limited
First Floor, Unit 10
Rotherbrook Court, Bedford Road
Petersfield, Hants. GU32 3QG

Reporting Date: 00/01/00

Soil

		Characteristic	Silt Loam
		Date Sampled	39891
		TP/BH	Scrape Area DW1
		Our ref	16439
C_{10}-C_{25}	(mg/kg)		176
C_{21}-C_{40}	(mg/kg)		1043
Total Petroleum Hydrocarbons**	(mg/kg)		1219

Accredited for TPH only, not banding
** - MCERTS Accredited test
All results expressed on dry weight basis
GP

The Harley Reed Building
Unit C, Drury Lane
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BA
Telephone (01424) 718618
Facsimile (01424) 729911

2683 2683

THE ENVIRONMENTAL LABORATORY LTD

Waste Acceptance Criteria **ANALYTICAL *RESULTS***

Report No:	ANALYTICAL REPORT No. AR20044				Page 5 of 8		
					CLIENT:	Land Clean Limited	
Project Name:	Location: Stabilisation trial						
Lab Reference	16439				Landfill Waste Acceptance Critena Limits		
Sampling Date	19/03/09				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	Scrape Area DW1						
Depth	n/a						
Solid Waste Analysis							
TOC (%)	11.9				3%	5%	6%
Loss on Ignition (%)**	10.5				--	--	10%
BTEX (mg/kg)**	<0.01				6	--	--
Sum of PCBs (mg/kg)**	21.80				1	--	--
Mineral Oil (mg/kg)**	1219				500	--	--
Total PAH (mg/kg)**	6.8				100	--	--
pH (Units)**	8.3				--	--	--
Acid Neutralisation Capacity (mol/kg)	<0.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	<0.005	<0.005		<0.1	0.5	2	25
Barium*	0.229	0.206		1.3	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	0.080	0.035		0.3	0.5	10	70
Copper*	0.008	<0.005		<0.1	2	50	100
Mercury*	0.0004	0.0002		0.001	0.01	0.2	2
Molybdenum*	0.037	0.010		<0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	0.018	0.023		0.1	0.5	10	50
Antimony	0.015	0.005		0.04	0.06	0.7	5
Selenium	<0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.038	0.075		0.4	4	50	200
Chloride*	11	4		33	800	15000	25000
Fluoride*	<1	<1		<1	10	150	500
Sulphate*	247	30		465	1000	20000	50000
TDS	550	60		1005	4000	60000	100000
Phenol Index	<0.5	<0.5		<0.5	1	-	-
DOC	10.6	6.9		46	500	800	1000
Leach Test Information							
pH *	8.0	7.9					
EC*	786	181					
Sample Mass (kg)	0.199						
Dry Matter (%)	88						
Moisture (%)	14						
Stage 1							
Volume Eluate L2 (litres)	0.325						
Filtered Eluate VE1 (litres)	0.230						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepencies with current legislation

*= UKAS accredited

** - MCERTS accredited test

The Harley Reed Building
Unit C, Drury Lane
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BA
Telephone (01424) 718618
Facsimile (01424) 729911

2683 2683

THE ENVIRONMENTAL LABORATORY LTD

SAMPLE RECEIPT AND TEST DATES

Our Analytical Report Number	AR20044
Sample Receipt Date:	24/03/09
Reporting Date:	30/03/09
Registered:	24/03/09
Prepared:	25/03/09
Analysis complete:	30/03/09

TEST METHOD SUMMARY

PARAMETER	Analysis Undertaken on	Date Tested	Method Number	Technique
Arsenic**	Air dried sample	25/03/09	118	ICPMS
Cadmium**	Air dried sample	25/03/09	118	ICPMS
Chromium**	Air dried sample	25/03/09	118	ICPMS
Lead**	Air dried sample	25/03/09	118	ICPMS
Mercury**	Air dried sample	25/03/09	118	ICPMS
Nickel**	Air dried sample	25/03/09	118	ICPMS
Copper**	Air dried sample	25/03/09	118	ICPMS
Zinc**	Air dried sample	25/03/09	118	ICPMS
Selenium	Air dried sample	25/03/09	118	ICPMS
Hexavalent Chromium	As submitted sample	25/03/09	110	Colorimetry
Water Soluble Boron	Air dried sample	25/03/09	202	Colorimetry
PCB(7 Congeners)	Air dried sample	27/03/09	120	GCMS
Speciated PAH**	As submitted sample	26/03/09	133	Gas Chromatography
Basic Carbon Banding (TPH)**	As submitted sample	26/03/09	117	Gas chromatography

* = UKAS Accredited test
** - MCERTS Accredited test
Determinands not marked with * or ** are not accredited
MCERTS accreditation covers samples which are predominantly sand, clay, loam or combinations of these three soil types

Any comments, opinions, or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

The Harley Reed Building
Unit C, Drury Lane
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BA
Telephone (01424) 718618
Facsimile (01424) 729911

2683 2683

THE ENVIRONMENTAL LABORATORY LTD

SAMPLE RECEIPT AND TEST DATES

Our Analytical Report Number	AR20044
Sample Receipt Date:	24/03/09
Reporting Date:	30/03/09
Registered:	24/03/09
Prepared:	25/03/09
Analysis complete:	30/03/09

TEST METHOD SUMMARY

PARAMETER	Undertaken on	Date Tested	Method Number	Technique
pH Value**	Air dried sample	25/03/09	113	Electrometric
Total Organic Carbon	Air dried sample	27/03/09	210	Automated IR Absorption
Loss on Ignition**	Air dried sample	25/03/09	129	Gravimetric
Neutralization Capacity to pH 7	Air dried sample	25/03/09	-	EA
Benzene**	As submitted sample	26/03/09	154	GCMS
Toluene**	As submitted sample	26/03/09	154	GCMS
Ethyl Benzene**	As submitted sample	26/03/09	154	GCMS
Xylenes**	As submitted sample	26/03/09	154	GCMS
Mineral Oil**	As submitted sample	26/03/09	117	GCFID
PCB 28**	Air dried sample	27/03/09	120	GCMS
PCB 52**	Air dried sample	27/03/09	120	GCMS
PCB 101**	Air dried sample	27/03/09	120	GCMS
PCB 118**	Air dried sample	27/03/09	120	GCMS
PCB 138**	Air dried sample	27/03/09	120	GCMS
PCB 153**	Air dried sample	27/03/09	120	GCMS
PCB 180**	Air dried sample	27/03/09	120	GCMS
Speciated PAH**	As submitted sample	26/03/09	133	GCFID

The analysts' guide for sampling, analysis and clearance procedures
* = UKAS Accredited test
** - MCERTS Accredited test
Determinands not marked with a * or ** are not accredited
MCERTS accreditation covers samples which are predominantly sand, clay, loam or combinations of these three soil types

Any comments, opinions, or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

The Harley Reed Building
Unit C, Drury Lane
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BA
Telephone (01424) 718618
Facsimile (01424) 729911

2683

THE ENVIRONMENTAL LABORATORY LTD

LEACHATE SAMPLE RECEIPT AND TEST DATES

Our Analytical Report Number	AR20044
Sample Receipt Date:	24/03/09
Reporting Date:	30/03/09
Registered:	24/03/09
Prepared:	25/03/09
Analysis complete:	30/03/09

LEACHATE TEST METHOD SUMMARY

PARAMETER	Method Number	Technique
Arsenic*	101	ICPMS
Cadmium*	101	ICPMS
Chromium*	101	ICPMS
Lead*	101	ICPMS
Nickel*	101	ICPMS
Copper*	101	ICPMS
Zinc*	101	ICPMS
Mercury*	101	ICPMS
Selenium	101	ICPMS
Antimony	101	ICPMS
Barium*	101	ICPMS
Molybdenum*	101	ICPMS
pH Value*	113	Electrometric
Electrical Conductivity*	136	Probe
Dissolved Organic Carbon	102	TOC analyser
Chloride*	131	Ion Chromatography
Fluoride*	131	Ion Chromatography
Sulphate*	131	Ion Chromatography
Total Dissolved Solids	163	Gravimetric
Phenol Index	121	HPLC

* = UKAS Accredited test
Determinands not marked with * are not accredited

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

FAO Christian Wilkinson
19 September 2008

Dear Christian Wilkinson

Test Report Number **48194**

Your Project Reference **F15285 - Durham Road, Newport**

Please find enclosed the results of analysis for the samples received 4 September 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall Laboratory Manager
□ Phil Hellier Operations Director
□ Keith Jones Technical Development Chemist
□ John Crawford Quality Manager
□ Malcolm Avis Technical Director

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

LABORATORY TEST REPORT

Waste Acceptance Criteria Waste Parameters

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples received 04 September 2008

F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								48194
Chemtest LIMS ID					Limit values			AD43605
Sample ID					Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill	LF01
Sample No								1/3
Depth								
Matrix								*SOIL*
Determinand↓	SOP↓	*	CAS No↓	Units↓				
Total Organic Carbon	2625	M		%	3	5	6	27
Loss on ignition	2610	N		%			10	22.4
Benzene	2760	M	71432	µg kg-¹				200
Toluene	2760	M	108883	µg kg-¹				1.2
Ethyl benzene	2760	M	100414	µg kg-¹				3.7
m- & p-Xylene	2760	M	1330207	µg kg-¹				3.4
o-Xylene	2760	M	95476	µg kg-¹				1.3
Total BTEX	2761	M		mg kg-¹	6			0.21
PCB 28	2810	N	7012375	mg kg-¹				<0.1
PCB 52	2810	N	35693993	mg kg-¹				<0.1
PCB 101	2810	N	37680732	mg kg-¹				0.1
PCB 118	2810	N	31508006	mg kg-¹				0.1
PCB 138	2810	N	35065282	mg kg-¹				0.1
PCB 153	2810	N	35065271	mg kg-¹				0.1
PCB 180	2810	N	35065293	mg kg-¹				0.1
Total PCBs (7 congeners)	2811	N		mg kg-¹	1			<1
Naphthalene	2700	M	91203	mg kg-¹				1.4
Acenaphthylene	2700	M	208968	mg kg-¹				0.4
Acenaphthene	2700	M	83329	mg kg-¹				0.6
Fluorene	2700	M	86737	mg kg-¹				0.5
Phenanthrene	2700	M	85018	mg kg-¹				2.9
Anthracene	2700	M	120127	mg kg-¹				0.7
Fluoranthene	2700	M	206440	mg kg-¹				5.6
Pyrene	2700	M	129000	mg kg-¹				4.3
Benzo[a]anthracene	2700	M	56553	mg kg-¹				2.9
Chrysene	2700	M	218019	mg kg-¹				4.5
Benzo[b]fluoranthene	2700	M	205992	mg kg-¹				4.1
Benzo[k]fluoranthene	2700	M	207089	mg kg-¹				2
Benzo[a]pyrene	2700	M	50328	mg kg-¹				3
Dibenzo[a,h]anthracene	2700	M	53703	mg kg-¹				2
Indeno[1,2,3-cd]pyrene	2700	M	193395	mg kg-¹				0.4
Benzo[g,h,i]perylene	2700	M	191242	mg kg-¹				2
Coronene	2700	N	191071	mg kg-¹				<0.1
Total (of 17) PAHs	2700	N		mg kg-¹	100			37
pH	2010	M		-		>6		7.6
Acid Neutralisation Capacity	1015	N	ANC	mol kg-¹		To evaluate	To evaluate	0.010
TPH Total WAC	2670	N		mg kg-¹	500			130

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Column page 1

* Accreditation status

Report sample ID range AD43605 to AD43616

This report should be interpreted in conjunction with the notes on the accompanying cover page

LABORATORY TEST REPORT

Waste Acceptance Criteria Waste Parameters

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples
received 04 September 2008
F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								**48194**
Chemtest LIMS ID								AD43606
Sample ID								LF01
Sample No								2/3
Depth								
Matrix								*SOIL*
Determinand↓	SOP↓		CAS No↓	Units↓				
Total Organic Carbon	2625	M		%	3	5	6	7.0
Loss on ignition	2610	N		%			10	11.4
Benzene	2760	M	71432	µg kg-¹				38
Toluene	2760	M	108883	µg kg-¹				2.3
Ethyl benzene	2760	M	100414	µg kg-¹				37
m- & p-Xylene	2760	M	1330207	µg kg-¹				46
o-Xylene	2760	M	95476	µg kg-¹				1.6
Total BTEX	2761	M		mg kg-¹	6			0.12
PCB 28	2810	N	7012375	mg kg-¹				1.3
PCB 52	2810	N	35693993	mg kg-¹				2.6
PCB 101	2810	N	37680732	mg kg-¹				7.3
PCB 118	2810	N	31508006	mg kg-¹				5.9
PCB 138	2810	N	35065282	mg kg-¹				4.4
PCB 153	2810	N	35065271	mg kg-¹				4.9
PCB 180	2810	N	35065293	mg kg-¹				1.4
Total PCBs (7 congeners)	2811	N		mg kg-¹	1			28
Naphthalene	2700	M	91203	mg kg-¹				1
Acenaphthylene	2700	M	208968	mg kg-¹				0.1
Acenaphthene	2700	M	83329	mg kg-¹				0.2
Fluorene	2700	M	86737	mg kg-¹				0.6
Phenanthrene	2700	M	85018	mg kg-¹				5.8
Anthracene	2700	M	120127	mg kg-¹				1
Fluoranthene	2700	M	206440	mg kg-¹				8.6
Pyrene	2700	M	129000	mg kg-¹				6.8
Benzo[a]anthracene	2700	M	56553	mg kg-¹				4
Chrysene	2700	M	218019	mg kg-¹				4.8
Benzo[b]fluoranthene	2700	M	205992	mg kg-¹				2.9
Benzo[k]fluoranthene	2700	M	207089	mg kg-¹				1.7
Benzo[a]pyrene	2700	M	50328	mg kg-¹				2.6
Dibenzo[a,h]anthracene	2700	M	53703	mg kg-¹				1.5
Indeno[1,2,3-cd]pyrene	2700	M	193395	mg kg-¹				0.3
Benzo[g,h,i]perylene	2700	M	191242	mg kg-¹				1.4
Coronene	2700	N	191071	mg kg-¹				<0.1
Total (of 17) PAHs	2700	N		mg kg-¹	100			43
pH	2010	M		-		>6		7.2
Acid Neutralisation Capacity	1015	N	ANC	mol kg-¹		To evaluate	To evaluate	0.005
TPH Total WAC	2670	N		mg kg-¹	500			410

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Report sample ID range AD43605 to AD43616

LABORATORY TEST REPORT

Waste Acceptance Criteria Waste Parameters

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples
received 04 September 2008
F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								**48194**
Chemtest LIMS ID								AD43607
Sample ID								LF01
Sample No								3/3
Depth								
Matrix								*SOIL*
Determinand↓	SOP↓		CAS No↓	Units↓				
Total Organic Carbon	2625	M		%	3	5	6	16
Loss on ignition	2610	N		%			10	13.7
Benzene	2760	M	71432	µg kg-¹				4.2
Toluene	2760	M	108883	µg kg-¹				2.3
Ethyl benzene	2760	M	100414	µg kg-¹				<1
m- & p-Xylene	2760	M	1330207	µg kg-¹				<1
o-Xylene	2760	M	95476	µg kg-¹				170
Total BTEX	2761	M		mg kg-¹	6			0.18
PCB 28	2810	N	7012375	mg kg-¹				1.2
PCB 52	2810	N	35693993	mg kg-¹				0.9
PCB 101	2810	N	37680732	mg kg-¹				1.3
PCB 118	2810	N	31508006	mg kg-¹				4.0
PCB 138	2810	N	35065282	mg kg-¹				3.4
PCB 153	2810	N	35065271	mg kg-¹				6.9
PCB 180	2810	N	35065293	mg kg-¹				4.3
Total PCBs (7 congeners)	2811	N		mg kg-¹	1			22
Naphthalene	2700	M	91203	mg kg-¹				1.4
Acenaphthylene	2700	M	208968	mg kg-¹				0.3
Acenaphthene	2700	M	83329	mg kg-¹				0.4
Fluorene	2700	M	86737	mg kg-¹				0.5
Phenanthrene	2700	M	85018	mg kg-¹				5
Anthracene	2700	M	120127	mg kg-¹				1.3
Fluoranthene	2700	M	206440	mg kg-¹				9.3
Pyrene	2700	M	129000	mg kg-¹				7.1
Benzo[a]anthracene	2700	M	56553	mg kg-¹				5
Chrysene	2700	M	218019	mg kg-¹				10
Benzo[b]fluoranthene	2700	M	205992	mg kg-¹				6.8
Benzo[k]fluoranthene	2700	M	207089	mg kg-¹				4
Benzo[a]pyrene	2700	M	50328	mg kg-¹				5.8
Dibenzo[a,h]anthracene	2700	M	53703	mg kg-¹				2.9
Indeno[1,2,3-cd]pyrene	2700	M	193395	mg kg-¹				0.7
Benzo[g,h,i]perylene	2700	M	191242	mg kg-¹				2.6
Coronene	2700	N	191071	mg kg-¹				<0.1
Total (of 17) PAHs	2700	N		mg kg-¹	100			63
pH	2010	M		-		>6		7.7
Acid Neutralisation Capacity	1015	N	ANC	mol kg-¹		To evaluate	To evaluate	0.002
TPH Total WAC	2670	N		mg kg-¹	500			510

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Column page 3

Report sample ID range AD43605 to AD43616

LABORATORY TEST REPORT

Waste Acceptance Criteria Waste Parameters

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples
received 04 September 2008
F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								48194
Chemtest LIMS ID								AD43608
Sample ID								LF02
Sample No								1/3
Depth								
Matrix								*SOIL*
Determinand↓	SOP↓		CAS No↓	Units↓				
Total Organic Carbon	2625	M		%	3	5	6	22
Loss on ignition	2610	N		%			10	23.3
Benzene	2760	M	71432	µg kg-¹				110
Toluene	2760	M	108883	µg kg-¹				3.1
Ethyl benzene	2760	M	100414	µg kg-¹				93
m- & p-Xylene	2760	M	1330207	µg kg-¹				19
o-Xylene	2760	M	95476	µg kg-¹				2.2
Total BTEX	2761	M		mg kg-¹	6			0.23
PCB 28	2810	N	7012375	mg kg-¹				15
PCB 52	2810	N	35693993	mg kg-¹				53
PCB 101	2810	N	37680732	mg kg-¹				120
PCB 118	2810	N	31508006	mg kg-¹				80
PCB 138	2810	N	35065282	mg kg-¹				120
PCB 153	2810	N	35065271	mg kg-¹				120
PCB 180	2810	N	35065293	mg kg-¹				33
Total PCBs (7 congeners)	2811	N		mg kg-¹	1			540
Naphthalene	2700	M	91203	mg kg-¹				1
Acenaphthylene	2700	M	208968	mg kg-¹				0.4
Acenaphthene	2700	M	83329	mg kg-¹				<0.1
Fluorene	2700	M	86737	mg kg-¹				0.4
Phenanthrene	2700	M	85018	mg kg-¹				5.4
Anthracene	2700	M	120127	mg kg-¹				1
Fluoranthene	2700	M	206440	mg kg-¹				8.1
Pyrene	2700	M	129000	mg kg-¹				5.9
Benzo[a]anthracene	2700	M	56553	mg kg-¹				3.8
Chrysene	2700	M	218019	mg kg-¹				5.8
Benzo[b]fluoranthene	2700	M	205992	mg kg-¹				4.7
Benzo[k]fluoranthene	2700	M	207089	mg kg-¹				2.5
Benzo[a]pyrene	2700	M	50328	mg kg-¹				3.6
Dibenzo[a,h]anthracene	2700	M	53703	mg kg-¹				2.5
Indeno[1,2,3-cd]pyrene	2700	M	193395	mg kg-¹				0.5
Benzo[g,h,i]perylene	2700	M	191242	mg kg-¹				2.4
Coronene	2700	N	191071	mg kg-¹				<0.1
Total (of 17) PAHs	2700	N		mg kg-¹	100			48
pH	2010	M		-		>6		7.5
Acid Neutralisation Capacity	1015	N	ANC	mol kg-¹		To evaluate	To evaluate	0.137
TPH Total WAC	2670	N		mg kg-¹	500			5700

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Column page 4

Report sample ID range AD43605 to AD43616

LABORATORY TEST REPORT

Waste Acceptance Criteria Waste Parameters

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples
received 04 September 2008
F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								**48194**
Chemtest LIMS ID								AD43609
Sample ID								LF02
Sample No								2/3
Depth								
Matrix								*SOIL*
Determinand↓	SOP↓		CAS No↓	Units↓				
Total Organic Carbon	2625	M		%	3	5	6	13
Loss on ignition	2610	N		%			10	9.16
Benzene	2760	M	71432	µg kg-¹				6.8
Toluene	2760	M	108883	µg kg-¹				4.6
Ethyl benzene	2760	M	100414	µg kg-¹				13
m- & p-Xylene	2760	M	1330207	µg kg-¹				8.4
o-Xylene	2760	M	95476	µg kg-¹				1400
Total BTEX	2761	M		mg kg-¹	6			1.4
PCB 28	2810	N	7012375	mg kg-¹				0.7
PCB 52	2810	N	35693993	mg kg-¹				1.5
PCB 101	2810	N	37680732	mg kg-¹				1.4
PCB 118	2810	N	31508006	mg kg-¹				2.5
PCB 138	2810	N	35065282	mg kg-¹				1.6
PCB 153	2810	N	35065271	mg kg-¹				1.6
PCB 180	2810	N	35065293	mg kg-¹				1.9
Total PCBs (7 congeners)	2811	N		mg kg-¹	1			11
Naphthalene	2700	M	91203	mg kg-¹				0.4
Acenaphthylene	2700	M	208968	mg kg-¹				0.4
Acenaphthene	2700	M	83329	mg kg-¹				0.3
Fluorene	2700	M	86737	mg kg-¹				0.3
Phenanthrene	2700	M	85018	mg kg-¹				5.7
Anthracene	2700	M	120127	mg kg-¹				1.7
Fluoranthene	2700	M	206440	mg kg-¹				12
Pyrene	2700	M	129000	mg kg-¹				9.6
Benzo[a]anthracene	2700	M	56553	mg kg-¹				7.2
Chrysene	2700	M	218019	mg kg-¹				9.4
Benzo[b]fluoranthene	2700	M	205992	mg kg-¹				7.2
Benzo[k]fluoranthene	2700	M	207089	mg kg-¹				4.8
Benzo[a]pyrene	2700	M	50328	mg kg-¹				6.5
Dibenzo[a,h]anthracene	2700	M	53703	mg kg-¹				3.4
Indeno[1,2,3-cd]pyrene	2700	M	193395	mg kg-¹				1
Benzo[g,h,i]perylene	2700	M	191242	mg kg-¹				3.7
Coronene	2700	N	191071	mg kg-¹				<0.1
Total (of 17) PAHs	2700	N		mg kg-¹	100			74
pH	2010	M		-		>6		7.6
Acid Neutralisation Capacity	1015	N	ANC	mol kg-¹		To evaluate	To evaluate	0.026
TPH Total WAC	2670	N		mg kg-¹	500			260

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Column page 5

Report sample ID range AD43605 to AD43616

LABORATORY TEST REPORT

Waste Acceptance Criteria Waste Parameters

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples
received 04 September 2008
F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								**48194**
Chemtest LIMS ID								AD43610
Sample ID								LF02
Sample No								3/3
Depth								
Matrix								*SOIL*
Determinand↓	SOP↓		CAS No↓	Units↓				
Total Organic Carbon	2625	M		%	3	5	6	23
Loss on ignition	2610	N		%			10	18.6
Benzene	2760	M	71432	µg kg-¹				4.7
Toluene	2760	M	108883	µg kg-¹				3.9
Ethyl benzene	2760	M	100414	µg kg-¹				<1
m- & p-Xylene	2760	M	1330207	µg kg-¹				2.4
o-Xylene	2760	M	95476	µg kg-¹				<1
Total BTEX	2761	M		mg kg-¹	6			0.011
PCB 28	2810	N	7012375	mg kg-¹				0.3
PCB 52	2810	N	35693993	mg kg-¹				0.8
PCB 101	2810	N	37680732	mg kg-¹				0.6
PCB 118	2810	N	31508006	mg kg-¹				0.9
PCB 138	2810	N	35065282	mg kg-¹				0.6
PCB 153	2810	N	35065271	mg kg-¹				1.0
PCB 180	2810	N	35065293	mg kg-¹				0.8
Total PCBs (7 congeners)	2811	N		mg kg-¹	1			5
Naphthalene	2700	M	91203	mg kg-¹				2.8
Acenaphthylene	2700	M	208968	mg kg-¹				0.6
Acenaphthene	2700	M	83329	mg kg-¹				1.3
Fluorene	2700	M	86737	mg kg-¹				0.6
Phenanthrene	2700	M	85018	mg kg-¹				3.6
Anthracene	2700	M	120127	mg kg-¹				1.5
Fluoranthene	2700	M	206440	mg kg-¹				4.9
Pyrene	2700	M	129000	mg kg-¹				3.3
Benzo[a]anthracene	2700	M	56553	mg kg-¹				4.6
Chrysene	2700	M	218019	mg kg-¹				4.4
Benzo[b]fluoranthene	2700	M	205992	mg kg-¹				3.8
Benzo[k]fluoranthene	2700	M	207089	mg kg-¹				2.2
Benzo[a]pyrene	2700	M	50328	mg kg-¹				3.1
Dibenzo[a,h]anthracene	2700	M	53703	mg kg-¹				2
Indeno[1,2,3-cd]pyrene	2700	M	193395	mg kg-¹				0.5
Benzo[g,h,i]perylene	2700	M	191242	mg kg-¹				1.7
Coronene	2700	N	191071	mg kg-¹				<0.1
Total (of 17) PAHs	2700	N		mg kg-¹	100			41
pH	2010	M		-		>6		7.3
Acid Neutralisation Capacity	1015	N	ANC	mol kg-¹		To evaluate	To evaluate	0.012
TPH Total WAC	2670	N		mg kg-¹	500			600

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Column page 6

Report sample ID range AD43605 to AD43616

LABORATORY TEST REPORT

Waste Acceptance Criteria BS EN 12457 Part 3 2 Stage

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples received 04 September 2008
F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								48194
Chemtest LIMS ID						Limit values		AD43611
Sample ID					Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill	LF01
Sample No								1/3
Depth								
Matrix								*LEACHATE*
Determinand↓	SOP↓	*	CAS No↓	Units↓				
As (arsenic) L/S=2	1450	N	7440382	mg kg-1				<0.05
Ba (barium) L/S=2	1450	N	7440393	mg kg-1				<0.5
Cd (cadmium) L/S=2	1450	N	7440439	mg kg-1				<0.01
Cr (chromium) L/S=2	1450	N	7440473	mg kg-1				0.08
Cu (copper) L/S=2	1450	N	7440508	mg kg-1				0.13
Hg (mercury) L/S=2	1450	N	7439976	mg kg-1				<0.005
Mo (molybdenum) L/S=2	1450	N	7439987	mg kg-1				<0.05
Ni (nickel) L/S=2	1450	N	7440020	mg kg-1				<0.05
Pb (lead) L/S=2	1450	N	7439921	mg kg-1				<0.05
Sb (antimony) L/S=2	1450	N	7440360	mg kg-1				0.01
Se (selenium) L/S=2	1450	N	7782492	mg kg-1				<0.01
Zn (zinc) L/S=2	1450	N	7440666	mg kg-1				<0.5
Cl (chloride) L/S=2	1220	U	16887006	mg kg-1				294
F (fluoride) L/S=2	1220	U	16984488	mg kg-1				<1
SO4 (sulfate) L/S=2	1220	U	14808798	mg kg-1				641
Total Dissolved Solids L/S=2	1610	N	TDS	mg kg-1				2400
Phenol index L/S=2	1920	N	108952	mg kg-1				<0.5
Dissolved Organic Carbon L/S=2	1610	N	DOC	mg kg-1				106
As (arsenic) L/S=10	1450	N	7440382	mg kg-1	0.5	2	25	0.05
Ba (barium) L/S=10	1450	N	7440393	mg kg-1	20	100	300	3.62
Cd (cadmium) L/S=10	1450	N	7440439	mg kg-1	0.04	1	5	0.01
Cr (chromium) L/S=10	1450	N	7440473	mg kg-1	0.5	10	70	0.3
Cu (copper) L/S=10	1450	N	7440508	mg kg-1	2	50	100	0.34
Hg (mercury) L/S=10	1450	N	7439976	mg kg-1	0.01	0.2	2	<0.005
Mo (molybdenum) L/S=10	1450	N	7439987	mg kg-1	0.5	10	30	0.09
Ni (nickel) L/S=10	1450	N	7440020	mg kg-1	0.4	10	40	0.09
Pb (lead) L/S=10	1450	N	7439921	mg kg-1	0.5	10	50	0.06
Sb (antimony) L/S=10	1450	N	7440360	mg kg-1	0.06	0.7	5	0.03
Se (selenium) L/S=10	1450	N	7782492	mg kg-1	0.1	0.5	7	<0.01
Zn (zinc) L/S=10	1450	N	7440666	mg kg-1	4	50	200	<0.5
Cl (chloride) L/S=10	1220	U	16887006	mg kg-1	800	15000	25000	323
F (fluoride) L/S=10	1220	U	16984488	mg kg-1	10	150	500	3.71
SO4 (sulfate) L/S=10	1220	U	14808798	mg kg-1	1000	20000	50000	859
Total Dissolved Solids L/S=10	1610	N	TDS	mg kg-1	4000	60000	100000	4820
Phenol index L/S=10	1920	N	108952	mg kg-1	1			<0.5
Dissolved Organic Carbon L/S=10	1610	N	DOC	mg kg-1	500	800	1000	194

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Column page 1

* Accreditation status

Report sample ID range AD43605 to AD43616

LABORATORY TEST REPORT

Waste Acceptance Criteria BS EN 12457 Part 3 2 Stage

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples received 04 September 2008

F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								48194
Chemtest LIMS ID								AD43612
Sample ID								LF01
Sample No								2/3
Depth								
Matrix								*LEACHATE*
Determinand↓	SOP↓		CAS No↓	Units↓				
As (arsenic) L/S=2	1450	N	7440382	mg kg-1				<0.05
Ba (barium) L/S=2	1450	N	7440393	mg kg-1				<0.5
Cd (cadmium) L/S=2	1450	N	7440439	mg kg-1				0.01
Cr (chromium) L/S=2	1450	N	7440473	mg kg-1				0.09
Cu (copper) L/S=2	1450	N	7440508	mg kg-1				0.09
Hg (mercury) L/S=2	1450	N	7439976	mg kg-1				<0.005
Mo (molybdenum) L/S=2	1450	N	7439987	mg kg-1				0.08
Ni (nickel) L/S=2	1450	N	7440020	mg kg-1				<0.05
Pb (lead) L/S=2	1450	N	7439921	mg kg-1				<0.05
Sb (antimony) L/S=2	1450	N	7440360	mg kg-1				0.01
Se (selenium) L/S=2	1450	N	7782492	mg kg-1				<0.01
Zn (zinc) L/S=2	1450	N	7440666	mg kg-1				<0.5
Cl (chloride) L/S=2	1220	U	16887006	mg kg-1				524
F (fluoride) L/S=2	1220	U	16984488	mg kg-1				1.46
SO4 (sulfate) L/S=2	1220	U	14808798	mg kg-1				865
Total Dissolved Solids L/S=2	1610	N	TDS	mg kg-1				3600
Phenol index L/S=2	1920	N	108952	mg kg-1				<0.5
Dissolved Organic Carbon L/S=2	1610	N	DOC	mg kg-1				114
As (arsenic) L/S=10	1450	N	7440382	mg kg-1	0.5	2	25	0.25
Ba (barium) L/S=10	1450	N	7440393	mg kg-1	20	100	300	2.47
Cd (cadmium) L/S=10	1450	N	7440439	mg kg-1	0.04	1	5	0.09
Cr (chromium) L/S=10	1450	N	7440473	mg kg-1	0.5	10	70	0.99
Cu (copper) L/S=10	1450	N	7440508	mg kg-1	2	50	100	0.74
Hg (mercury) L/S=10	1450	N	7439976	mg kg-1	0.01	0.2	2	0.01
Mo (molybdenum) L/S=10	1450	N	7439987	mg kg-1	0.5	10	30	0.67
Ni (nickel) L/S=10	1450	N	7440020	mg kg-1	0.4	10	40	0.2
Pb (lead) L/S=10	1450	N	7439921	mg kg-1	0.5	10	50	0.24
Sb (antimony) L/S=10	1450	N	7440360	mg kg-1	0.06	0.7	5	0.21
Se (selenium) L/S=10	1450	N	7782492	mg kg-1	0.1	0.5	7	0.01
Zn (zinc) L/S=10	1450	N	7440666	mg kg-1	4	50	200	0.64
Cl (chloride) L/S=10	1220	U	16887006	mg kg-1	800	15000	25000	499
F (fluoride) L/S=10	1220	U	16984488	mg kg-1	10	150	500	7.85
SO4 (sulfate) L/S=10	1220	U	14808798	mg kg-1	1000	20000	50000	1030
Total Dissolved Solids L/S=10	1610	N	TDS	mg kg-1	4000	60000	100000	5180
Phenol index L/S=10	1920	N	108952	mg kg-1	1			<0.5
Dissolved Organic Carbon L/S=10	1610	N	DOC	mg kg-1	500	800	1000	192

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Report sample ID range AD43605 to AD43616

LABORATORY TEST REPORT

Waste Acceptance Criteria BS EN 12457 Part 3 2 Stage

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples
received 04 September 2008
F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								48194
Chemtest LIMS ID								AD43613
Sample ID								LF01
Sample No								3/3
Depth								
Matrix								*LEACHATE*
Determinand↓	SOP↓		CAS No↓	Units↓				
As (arsenic) L/S=2	1450	N	7440382	mg kg⁻¹				<0.05
Ba (barium) L/S=2	1450	N	7440393	mg kg⁻¹				<0.5
Cd (cadmium) L/S=2	1450	N	7440439	mg kg⁻¹				<0.01
Cr (chromium) L/S=2	1450	N	7440473	mg kg⁻¹				0.09
Cu (copper) L/S=2	1450	N	7440508	mg kg⁻¹				0.16
Hg (mercury) L/S=2	1450	N	7439976	mg kg⁻¹				<0.005
Mo (molybdenum) L/S=2	1450	N	7439987	mg kg⁻¹				0.08
Ni (nickel) L/S=2	1450	N	7440020	mg kg⁻¹				<0.05
Pb (lead) L/S=2	1450	N	7439921	mg kg⁻¹				<0.05
Sb (antimony) L/S=2	1450	N	7440360	mg kg⁻¹				0.02
Se (selenium) L/S=2	1450	N	7782492	mg kg⁻¹				0.01
Zn (zinc) L/S=2	1450	N	7440666	mg kg⁻¹				<0.5
Cl (chloride) L/S=2	1220	U	16887006	mg kg⁻¹				37
F (fluoride) L/S=2	1220	U	16984488	mg kg⁻¹				3.1
SO4 (sulfate) L/S=2	1220	U	14808798	mg kg⁻¹				112
Total Dissolved Solids L/S=2	1610	N	TDS	mg kg⁻¹				880
Phenol index L/S=2	1920	N	108952	mg kg⁻¹				<0.5
Dissolved Organic Carbon L/S=2	1610	N	DOC	mg kg⁻¹				54
As (arsenic) L/S=10	1450	N	7440382	mg kg⁻¹	0.5	2	25	<0.05
Ba (barium) L/S=10	1450	N	7440393	mg kg⁻¹	20	100	300	1.25
Cd (cadmium) L/S=10	1450	N	7440439	mg kg⁻¹	0.04	1	5	0.01
Cr (chromium) L/S=10	1450	N	7440473	mg kg⁻¹	0.5	10	70	0.34
Cu (copper) L/S=10	1450	N	7440508	mg kg⁻¹	2	50	100	0.63
Hg (mercury) L/S=10	1450	N	7439976	mg kg⁻¹	0.01	0.2	2	<0.005
Mo (molybdenum) L/S=10	1450	N	7439987	mg kg⁻¹	0.5	10	30	0.2
Ni (nickel) L/S=10	1450	N	7440020	mg kg⁻¹	0.4	10	40	<0.05
Pb (lead) L/S=10	1450	N	7439921	mg kg⁻¹	0.5	10	50	0.06
Sb (antimony) L/S=10	1450	N	7440360	mg kg⁻¹	0.06	0.7	5	0.06
Se (selenium) L/S=10	1450	N	7782492	mg kg⁻¹	0.1	0.5	7	0.01
Zn (zinc) L/S=10	1450	N	7440666	mg kg⁻¹	4	50	200	<0.5
Cl (chloride) L/S=10	1220	U	16887006	mg kg⁻¹	800	15000	25000	70.5
F (fluoride) L/S=10	1220	U	16984488	mg kg⁻¹	10	150	500	12
SO4 (sulfate) L/S=10	1220	U	14808798	mg kg⁻¹	1000	20000	50000	233
Total Dissolved Solids L/S=10	1610	N	TDS	mg kg⁻¹	4000	60000	100000	2500
Phenol index L/S=10	1920	N	108952	mg kg⁻¹	1			<0.5
Dissolved Organic Carbon L/S=10	1610	N	DOC	mg kg⁻¹	500	800	1000	114

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Report sample ID range AD43605 to AD43616

This report should be interpreted in conjunction with the notes on the accompanying cover page

LABORATORY TEST REPORT

Waste Acceptance Criteria BS EN 12457 Part 3 2 Stage

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples
received 04 September 2008
F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								48194
Chemtest LIMS ID								AD43614
Sample ID								LF02
Sample No								1/3
Depth								
Matrix								*LEACHATE*
Determinand↓	SOP↓		CAS No↓	Units↓				
As (arsenic) L/S=2	1450	N	7440382	mg kg-1				<0.05
Ba (barium) L/S=2	1450	N	7440393	mg kg-1				<0.5
Cd (cadmium) L/S=2	1450	N	7440439	mg kg-1				<0.01
Cr (chromium) L/S=2	1450	N	7440473	mg kg-1				<0.05
Cu (copper) L/S=2	1450	N	7440508	mg kg-1				0.08
Hg (mercury) L/S=2	1450	N	7439976	mg kg-1				<0.005
Mo (molybdenum) L/S=2	1450	N	7439987	mg kg-1				<0.05
Ni (nickel) L/S=2	1450	N	7440020	mg kg-1				<0.05
Pb (lead) L/S=2	1450	N	7439921	mg kg-1				<0.05
Sb (antimony) L/S=2	1450	N	7440360	mg kg-1				0.01
Se (selenium) L/S=2	1450	N	7782492	mg kg-1				<0.01
Zn (zinc) L/S=2	1450	N	7440666	mg kg-1				<0.5
Cl (chloride) L/S=2	1220	U	16887006	mg kg-1				184
F (fluoride) L/S=2	1220	U	16984488	mg kg-1				<1
SO4 (sulfate) L/S=2	1220	U	14808798	mg kg-1				1280
Total Dissolved Solids L/S=2	1610	N	TDS	mg kg-1				3200
Phenol index L/S=2	1920	N	108952	mg kg-1				<0.5
Dissolved Organic Carbon L/S=2	1610	N	DOC	mg kg-1				102
As (arsenic) L/S=10	1450	N	7440382	mg kg-1	0.5	2	25	<0.05
Ba (barium) L/S=10	1450	N	7440393	mg kg-1	20	100	300	0.66
Cd (cadmium) L/S=10	1450	N	7440439	mg kg-1	0.04	1	5	0.01
Cr (chromium) L/S=10	1450	N	7440473	mg kg-1	0.5	10	70	0.27
Cu (copper) L/S=10	1450	N	7440508	mg kg-1	2	50	100	0.22
Hg (mercury) L/S=10	1450	N	7439976	mg kg-1	0.01	0.2	2	<0.005
Mo (molybdenum) L/S=10	1450	N	7439987	mg kg-1	0.5	10	30	0.16
Ni (nickel) L/S=10	1450	N	7440020	mg kg-1	0.4	10	40	<0.05
Pb (lead) L/S=10	1450	N	7439921	mg kg-1	0.5	10	50	<0.05
Sb (antimony) L/S=10	1450	N	7440360	mg kg-1	0.06	0.7	5	0.05
Se (selenium) L/S=10	1450	N	7782492	mg kg-1	0.1	0.5	7	<0.01
Zn (zinc) L/S=10	1450	N	7440666	mg kg-1	4	50	200	<0.5
Cl (chloride) L/S=10	1220	U	16887006	mg kg-1	800	15000	25000	201
F (fluoride) L/S=10	1220	U	16984488	mg kg-1	10	150	500	4.52
SO4 (sulfate) L/S=10	1220	U	14808798	mg kg-1	1000	20000	50000	1450
Total Dissolved Solids L/S=10	1610	N	TDS	mg kg-1	4000	60000	100000	5060
Phenol index L/S=10	1920	N	108952	mg kg-1	1			<0.5
Dissolved Organic Carbon L/S=10	1610	N	DOC	mg kg-1	500	800	1000	176

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Report sample ID range AD43605 to AD43616

LABORATORY TEST REPORT

Waste Acceptance Criteria BS EN 12457 Part 3 2 Stage

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples
received 04 September 2008
F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								48194
Chemtest LIMS ID								AD43615
Sample ID								LF02
Sample No								2/3
Depth								
Matrix								*LEACHATE*
Determinand↓	SOP↓		CAS No↓	Units↓				
As (arsenic) L/S=2	1450	N	7440382	mg kg-1				<0.05
Ba (barium) L/S=2	1450	N	7440393	mg kg-1				<0.5
Cd (cadmium) L/S=2	1450	N	7440439	mg kg-1				<0.01
Cr (chromium) L/S=2	1450	N	7440473	mg kg-1				0.08
Cu (copper) L/S=2	1450	N	7440508	mg kg-1				0.07
Hg (mercury) L/S=2	1450	N	7439976	mg kg-1				<0.005
Mo (molybdenum) L/S=2	1450	N	7439987	mg kg-1				0.08
Ni (nickel) L/S=2	1450	N	7440020	mg kg-1				<0.05
Pb (lead) L/S=2	1450	N	7439921	mg kg-1				<0.05
Sb (antimony) L/S=2	1450	N	7440360	mg kg-1				0.02
Se (selenium) L/S=2	1450	N	7782492	mg kg-1				<0.01
Zn (zinc) L/S=2	1450	N	7440666	mg kg-1				<0.5
Cl (chloride) L/S=2	1220	U	16887006	mg kg-1				31
F (fluoride) L/S=2	1220	U	16984488	mg kg-1				3.4
SO4 (sulfate) L/S=2	1220	U	14808798	mg kg-1				68.6
Total Dissolved Solids L/S=2	1610	N	TDS	mg kg-1				820
Phenol index L/S=2	1920	N	108952	mg kg-1				<0.5
Dissolved Organic Carbon L/S=2	1610	N	DOC	mg kg-1				58
As (arsenic) L/S=10	1450	N	7440382	mg kg-1	0.5	2	25	<0.05
Ba (barium) L/S=10	1450	N	7440393	mg kg-1	20	100	300	1.27
Cd (cadmium) L/S=10	1450	N	7440439	mg kg-1	0.04	1	5	0.01
Cr (chromium) L/S=10	1450	N	7440473	mg kg-1	0.5	10	70	0.34
Cu (copper) L/S=10	1450	N	7440508	mg kg-1	2	50	100	0.4
Hg (mercury) L/S=10	1450	N	7439976	mg kg-1	0.01	0.2	2	<0.005
Mo (molybdenum) L/S=10	1450	N	7439987	mg kg-1	0.5	10	30	0.14
Ni (nickel) L/S=10	1450	N	7440020	mg kg-1	0.4	10	40	<0.05
Pb (lead) L/S=10	1450	N	7439921	mg kg-1	0.5	10	50	0.13
Sb (antimony) L/S=10	1450	N	7440360	mg kg-1	0.06	0.7	5	0.07
Se (selenium) L/S=10	1450	N	7782492	mg kg-1	0.1	0.5	7	<0.01
Zn (zinc) L/S=10	1450	N	7440666	mg kg-1	4	50	200	1.36
Cl (chloride) L/S=10	1220	U	16887006	mg kg-1	800	15000	25000	65
F (fluoride) L/S=10	1220	U	16984488	mg kg-1	10	150	500	13.9
SO4 (sulfate) L/S=10	1220	U	14808798	mg kg-1	1000	20000	50000	160
Total Dissolved Solids L/S=10	1610	N	TDS	mg kg-1	4000	60000	100000	2360
Phenol index L/S=10	1920	N	108952	mg kg-1	1			<0.5
Dissolved Organic Carbon L/S=10	1610	N	DOC	mg kg-1	500	800	1000	118

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Report sample ID range AD43605 to AD43616

This report should be interpreted in conjunction with the notes on the accompanying cover page

LABORATORY TEST REPORT

Waste Acceptance Criteria BS EN 12457 Part 3 2 Stage

Norwest Holst
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX
FAO Christian Wilkinson

Results of analysis of 6 samples
received 04 September 2008
F15285 - Durham Road, Newport

Report Date
19 September 2008

Login Batch No								48194
Chemtest LIMS ID								AD43616
Sample ID								LF02
Sample No								3/3
Depth								
Matrix								*LEACHATE*
Determinand↓	SOP↓		CAS No↓	Units↓				
As (arsenic) L/S=2	1450	N	7440382	mg kg-1				<0.05
Ba (barium) L/S=2	1450	N	7440393	mg kg-1				<0.5
Cd (cadmium) L/S=2	1450	N	7440439	mg kg-1				<0.01
Cr (chromium) L/S=2	1450	N	7440473	mg kg-1				0.1
Cu (copper) L/S=2	1450	N	7440508	mg kg-1				0.07
Hg (mercury) L/S=2	1450	N	7439976	mg kg-1				<0.005
Mo (molybdenum) L/S=2	1450	N	7439987	mg kg-1				0.12
Ni (nickel) L/S=2	1450	N	7440020	mg kg-1				<0.05
Pb (lead) L/S=2	1450	N	7439921	mg kg-1				<0.05
Sb (antimony) L/S=2	1450	N	7440360	mg kg-1				0.03
Se (selenium) L/S=2	1450	N	7782492	mg kg-1				0.01
Zn (zinc) L/S=2	1450	N	7440666	mg kg-1				<0.5
Cl (chloride) L/S=2	1220	U	16887006	mg kg-1				8.89
F (fluoride) L/S=2	1220	U	16984488	mg kg-1				<1
SO4 (sulfate) L/S=2	1220	U	14808798	mg kg-1				424
Total Dissolved Solids L/S=2	1610	N	TDS	mg kg-1				1140
Phenol index L/S=2	1920	N	108952	mg kg-1				<0.5
Dissolved Organic Carbon L/S=2	1610	N	DOC	mg kg-1				51.9
As (arsenic) L/S=10	1450	N	7440382	mg kg-1	0.5	2	25	0.36
Ba (barium) L/S=10	1450	N	7440393	mg kg-1	20	100	300	1.06
Cd (cadmium) L/S=10	1450	N	7440439	mg kg-1	0.04	1	5	0.01
Cr (chromium) L/S=10	1450	N	7440473	mg kg-1	0.5	10	70	0.4
Cu (copper) L/S=10	1450	N	7440508	mg kg-1	2	50	100	0.17
Hg (mercury) L/S=10	1450	N	7439976	mg kg-1	0.01	0.2	2	<0.005
Mo (molybdenum) L/S=10	1450	N	7439987	mg kg-1	0.5	10	30	0.35
Ni (nickel) L/S=10	1450	N	7440020	mg kg-1	0.4	10	40	<0.05
Pb (lead) L/S=10	1450	N	7439921	mg kg-1	0.5	10	50	0.07
Sb (antimony) L/S=10	1450	N	7440360	mg kg-1	0.06	0.7	5	0.09
Se (selenium) L/S=10	1450	N	7782492	mg kg-1	0.1	0.5	7	0.01
Zn (zinc) L/S=10	1450	N	7440666	mg kg-1	4	50	200	<0.5
Cl (chloride) L/S=10	1220	U	16887006	mg kg-1	800	15000	25000	31.6
F (fluoride) L/S=10	1220	U	16984488	mg kg-1	10	150	500	5.01
SO4 (sulfate) L/S=10	1220	U	14808798	mg kg-1	1000	20000	50000	658
Total Dissolved Solids L/S=10	1610	N	TDS	mg kg-1	4000	60000	100000	2660
Phenol index L/S=10	1920	N	108952	mg kg-1	1			<0.5
Dissolved Organic Carbon L/S=10	1610	N	DOC	mg kg-1	500	800	1000	98.4

All tests undertaken between 09-Sep-2008 and 19-Sep-2008

Column page 6

Report sample ID range AD43605 to AD43616

This report should be interpreted in conjunction with the notes on the accompanying cover page