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Glossary of Terms

Term	Meaning / Definition
CSM	Conceptual Site Model
RBSL	Risk Based Screening Level
ACM	Asbestos Containing Material
TPH	Total Petroleum Hydrocarbons
PAH	Polycyclic aromatic Hydrocarbons
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
FFL	Finished Floor Level
mAOD	metres Above Ordnance Datum
RAP	Remedial Action Plan
VO	Visual/Olfactory Observations
BGL	Below Ground Level

1. Introduction

1.1. Background

Atkins Limited has been commissioned by St. Modwen Developments Ltd to provide consultancy advice with regard to the redevelopment of the former Llandarcy Oil Refinery as Coed Darcy.

The purpose of this report is to provide data relating to Monitor Phase 53 to confirm the suitability of this area for redevelopment in line with the specific requirements of the S106 in order for St. Modwen to achieve sign off by the Monitor. For the purpose of Monitor sign off, this area proposed as Monitor Phase 53 is shown on Drawing 5041216-REM-DWG-1777.

This document represents an updated version of an earlier report which takes into account Monitor comments in RFI0133, dated 6th May 2015.

Based upon the current Masterplan, it is understood that Monitor Phase 53 is proposed for use as residential housing and associated highways within the final development.

In the absence of detailed information relating to any proposed layout and/or finished floor levels (FFL) across this area, the following assessment assumes that existing ground levels represent a depth of 1m below FFL for the purpose of comparison with the requirements of the S106.

1.2. Aims and Objectives

This report provides an overview of the site including information regarding the site setting, local geology and hydrogeology, identified contamination and details of remedial works undertaken, where required.

In the long term, it is anticipated that the suitability of land quality will need to be reassessed once detailed development proposals for each area are defined.

Planning Condition 44 of the Outline Planning Permission for the site (P2005/0393) requires that:

Prior to the submission of the first reserved matters application on each phase of development, notwithstanding the provisions of Condition 26, a phase specific remediation strategy focusing upon the remediation requirements of that area shall be submitted to and approved in writing by the Local Planning Authority. The submitted documents shall include the results from the site investigation and risk assessment; and using the above information a method statement shall be submitted detailing remediation measures and a detailed programme for the submission of verification reports upon completion of the remedial works confirming implementation of agreed measures, together with proposals for future monitoring and reporting. The approved details shall be fully implemented on site, in line with a schedule of works that shall form part of the details submitted to the Local Planning Authority for approval.

In line with the detailed information relating to historical and recent ground investigation and laboratory analysis for Monitor Phase 53, as provided in the following report, it is envisaged that this document would form part of any later planning submission for this part of the site in line with the requirements of Planning Condition 44.

1.3. Scope of Work

The scope of works includes:

- A review of all readily available information including geological, hydrogeological, historical site plans, Environment Agency and British Geological Society (BGS) records.
- A review of historical maps relating to Monitor Phase 53 and adjacent areas;

- A review of historical (1999-2004) and recent (2014) ground investigation information relating to Monitor Phase 53;
- Comparison of the available ground conditions information with the requirements of the S106;

1.4. Soil Quality Assessment Standards

To maintain consistency of approach, the assessment standards for historical and recent data are those stated in the S106 Agreement for Coed Darcy. The visual and aesthetic classification system, as previously defined by BP within the S106, is provided as Table 1.1.

Atkins proposes to continue this system for the classification of all soils encountered, to aid assessment of each area in terms of the required remediation requirements. The assigned classifications for each strata are quoted on the trial pit logs for recent ground investigation by Atkins (refer to Section 4).

Table 1.1 – Scale of Aesthetic Criteria

Class	Visual	Olfactory
0	No visible staining of soil, no visible suspect ACM*.	No detectable odour on soil.
1	Occasional staining of soil, no visible suspect ACM*.	Faint odour on soil.
2	Frequent staining of soil.	Distinct but not strong odour on soil.
3	Occasional heavy staining of soil.	Strong odour on soil.
4	Heavy staining of soil.	Strong odour discernible in ambient air.
5	Visible hydrocarbon present.	Overwhelming odour.

* visible suspect ACM refers to asbestos containing material visible to the naked eye which a reasonable and prudent person used to managing asbestos may suspect to be asbestos-containing.

The S106, for the proposed redevelopment of the former refinery, presents a series of Risk Based Screening levels (RBSLs). These levels are defined in the S106 as being the 'minimum base level standard' for redevelopment remediation works (Schedule 8, Part 2, Paragraph 2,5).

In order to update the assessment of contamination in line with current UK guidance, these RBSLs are also now supplemented by a series of Remedial Target Concentrations (RTCs) derived by Atkins (Atkins reference: 5041216-REM-REP-000216 v3). A summary of the adopted thresholds is presented in Appendix A.

Details of the required frequencies of testing, as stated within the S106, are presented in Section 7.

Compliance with the redevelopment remediation requirements stated within Schedule 8 of the S106 (refer to Section 5) form the basis for obtaining the relevant sign off from the Monitor.

1.5. Information Sources

Information, reviewed as part of this assessment, has been obtained from the following sources:

- URS BP Llandarcy Refinery Desk Study 44382742/BRRP0001, July 2007
- URS Report FR1287 Final Factual Report for Ground Investigation, August 2005
- Section 106 Deed of Planning Obligations (Dewey & LeBoeuf report GNP/NJR/13773-2), February 2008

1.6. Limitations

As previously indicated, this report has been prepared with the sole intention of providing sufficient information to enable St. Modwen to obtain Monitor sign off for Monitor Phase 53 in accordance with criteria set out in the Coed Darcy Section 106 Agreement. Whilst the report may be relevant for submission as part of a reserved matters planning application, additional reports and submissions will be required as part of any future plot development.

The investigation works undertaken and summarised within this report represent a sampling exercise to determine ground conditions, in line with the required methodology outlined within the S106. The proposed works were carried out predominantly to investigate contamination across this area and do not include a review of any geotechnical issues or constraints that may exist which would need to be taken into account as part of any proposed redevelopment.

In addition, it should be noted that ground and groundwater conditions can vary over time and between sampling points. Where relevant, this report provides information relating to the removal of identified pipework and below ground structures encountered during the works, however, unidentified pipework and/or structures may still exist in situ.

2. The Site

2.1. Location and Description

Monitor Phase 53 is a wedge-shaped parcel of grassland covering approximately 3.86 ha (hectares), as shown on Drawing 5041216-REM-DWG-1777. This area, located in the north east of the former Llandarcy Oil Refinery, predominantly comprises three fields with a bowling green in the far south.

Monitor Phase 53 is constrained to the east by the M4 motorway and to the south by a railway line. Land to the west historically formed part of the refinery and is undergoing remediation. North Site reservoir is located to the north of Monitor Phase 53.

The central part of Monitor Phase 53 forms a plateau at approximately 51 metres above Ordnance Datum (mAOD) and the ground falls to the north, east and south to approximately 40mAOD, 47mAOD and 30mAOD respectively. Topographical survey information for Monitor Phase 53 is shown on Drawing 5041216-ATK-DR-C-REM-2007.

Monitor Phase 53 is subject to a condition imposed as part of the planning consent which requires a programme of archaeological work to be undertaken during any topsoil strip on this area development, the details of which are summarised in the Written Scheme of Investigation for an Archaeological Watching Brief prepared by Cotswold Archaeology.

2.2. Historical Land Use

Construction of Llandarcy Oil refinery commenced in 1917 but was temporarily suspended during the war due to the lack of men and resources. Construction started again in 1919 with production beginning in 1921. The refinery was officially opened in 1922.

The purpose of the refinery was to produce motor spirit, kerosene, gas fuel oil, fuel residue and lubricating oil and wax from imported crude oil. Between the wars, the oil industry developed rapidly. By 1939, the refinery had little of the original plant in operation.

In the mid 1980's a number of rationalisations occurred with the closure of the refinery being formally announced in 1997.

Based upon the information in URS Report 44382742/BRRP0001, although owned by BP, historical maps suggest Monitor Phase 53 to have remained undeveloped and outside of the area of any known activities associated with the former refinery (refer to Drawing 5041216-REM-DWG-1778). Until recently, it is understood that the fields were used as rough pasture for horses.

2.3. Published Geology

A review of published geological information (BGS map 247, Swansea (1:50,000 scale) indicates Monitor Phase 53 to be underlain by:

- Till (Diamicton), a heterogeneous deposit of glacial origin, which extends across almost all of the area with the exception of the far south.
- Pennant Sandstone Formation, specifically the Hughes Member which is described by the BGS as *'green-grey, lithic arenites ("Pennant sandstones") with thin mudstone/siltstone and seatearth interbeds and mainly thin coals'*.

2.4. Hydrogeology and Hydrology

2.4.1. Groundwater

Environment Agency data suggests that the Till (Diamicton) underlying Monitor Phase 53 is classified as 'Unproductive Strata'. These are defined as:

'...rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.'

The underlying sandstone bedrock is classified as a 'Secondary A Aquifer'. This is defined as:

'permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.'

Groundwater flow within Monitor Phase 53 has been inferred to be radial from the central area, following the topography.

2.4.2. Surface Waters

The closest significant water feature is the North Site reservoir located approximately 85m to the north of Monitor Phase 53.

The Tennant Canal is located approximately 670m to the south east of Monitor Phase 53.

Crymlyn Bog Site of Special Scientific Interest (SSSI) is located approximately 1.2km to the south west (refer to Section 2.6).

2.5. Landfills and Waste Management Facilities

A former landfill associated with the Oil Refinery, is located approximately 1.5km to the south west of Monitor Phase 53.

Atkins is currently in ongoing discussion with Natural Resources Wales relating to the surrender of the Environmental Permit for this area (EPR/AP3990LR).

2.6. Sensitive Land Uses

Crymlyn Bog SSSI lies within the flood plain of the Neath river estuary and represents the most extensive area of lowland fen in Wales. The SSSI lies approximately 1.2km to the south west of Monitor Phase 53.

Crymlyn Bog SSSI is internationally important for its very wet mires often identified by an unstable 'quaking' surface. Bottle sedge and bogbean are important components of some stands, together with common cottongrass, water horsetail, star sedge, mud sedge, and in places, the nationally rare slender cottongrass. Crymlyn Bog supports the largest area of calcium-rich fen dominated by great fen sedge vegetation in south Wales. Some of these stands are dominated by great fen sedge, but other areas display a more diverse vegetation in which tufted-sedge, royal fern and a range of tall-herb fen species are prominent. Some of these stands are unique in a Welsh context. In addition there are areas of wet woodland with alder and willow being the dominant species (<http://www.ccg.gov.uk/landscape--wildlife>).

3. Historical Ground Investigation by URS

3.1. General

Two historical exploratory holes are reported to have been carried out by URS within Monitor Phase 53 on behalf of the previous site owner, BP. The locations of known exploratory holes are presented on Drawing 5041216-REM-DWG-1779.

The exploratory holes were completed in 1998 as part of a series of investigations across the former refinery, dating between 1998 and 2004 (URS Report FR1287).

3.2. Recorded Ground Conditions

A layer of macadam was present in both boreholes from ground level to a depth of 0.2m bgl. Made Ground was recorded to a depth of 1.5m bgl in both boreholes and is described as a stiff brown clay with sandstone gravel. No anthropogenic inclusions were identified.

Superficial deposits were encountered in both boreholes, to the termination depth of 5.0m bgl in MSMW86s and a depth of 16.5m bgl in MSMW86d and were described as comprising a silty, sandy clay with sandstone gravel, cobbles and boulders.

Competent bedrock was encountered at 16.5m bgl in MSMW86d as 'sandstone intercalated with thinly laminated seams of siltstone and coal'.

The material in MSMW86s from a depth of 2.8m bgl was described on the borehole log as 'moist'.

Groundwater level monitoring was carried out on six occasions in MSMW86s, installed to screen the Made Ground and superficial deposits, and on eight occasions in MSMW86d, installed to screen the bedrock, between 1998 and 2003. The groundwater level in MSMW86s ranged from 0.242 mbgl to 1.836 mbgl and in MSMW86d from 6.59 mbgl to 13.0 mbgl suggesting bodies of water in both the superficial soils and underlying bedrock.

3.3. Soil and Groundwater Contamination

Consistent with the absence of any known historical refinery activities within this area, a review of the exploratory hole log for MSMW86 suggests that no visual or olfactory evidence of contamination was encountered during drilling.

Laboratory analysis of groundwater samples taken from both MSMW86s and MSMW86d confirm that concentrations of both Polycyclic Aromatic Hydrocarbons (PAH) and Total Petroleum Hydrocarbons (TPH) fell below the laboratory detection limit.

Existing wells within this area can no longer be found and, as such, it has not been possible to obtain more recent groundwater level monitoring data or samples.

4. Recent Ground Investigation by Atkins

4.1. Introduction

With the aim of supplementing and updating the historical investigation, a total of 101 machine excavated trial pits were undertaken across Monitor Phase 53 between October and November 2014. As a result of its ongoing use as a bowling green, no access to the southern part of Monitor Phase 53 was permitted for ground investigation works.

Environmental Scientifics Group (ESG) were employed by the client, St Modwen, to complete the works, under direction from Atkins. Trial pits were advanced to the maximum reach of the excavator, unless terminated on hard strata/bedrock or because of collapse. All trial pits were backfilled with arisings in the reverse order to which they were excavated, then compacted with the back of the excavator bucket. Excess arisings were left in a mound above the surrounding ground surface to allow for subsequent settlement.

In accordance with the required 'Written Scheme of Investigation for an Archaeological Watching Brief' prepared by Cotswold Archaeology, the ground investigation in Monitor Phase 53 was undertaken under an archaeological watching brief.

The locations of the Atkins trial pits are shown on Drawing 5041216-REM-DWG-1780. Copies of all relevant exploratory hole logs are presented in Appendix B.

4.2. Recorded Ground Conditions

Consistent with previous investigation and the absence of any known development across this area historically, Made Ground was not encountered in any of the recent trial pits excavated across Monitor Phase 53.

Superficial deposits were generally encountered as sandy gravelly silt with occasional sandstone cobbles or silty gravelly sand, with occasional sandstone cobbles between ground level and 5.4m bgl.

Sandstone bedrock was recovered in Monitor Phase 53 as angular to subrounded fine to coarse gravel and cobbles in NSE217 and NSE9. Trial pits were terminated within the bedrock at a minimum depth of 0.5m bgl in NSE52, NSE60 and NSE67 and a maximum depth of 5.4m bgl in NSE58.

Water strikes, described as 'seepages', 'slow inflow' or 'pooling at base', were recorded in six of the trial pits in Monitor Phase 53, at depths ranging from 2.0m bgl to 4.0m bgl. Given the absence of water at the majority of exploratory locations during the recent investigation, it is considered that these represent localised 'perched' groundwater rather than true groundwater within the superficial soils.

4.3. Laboratory Analysis

A total of 235 soil samples, collected from Monitor Phase 53, were analysed by Alcontrol Laboratories for a general suite of contaminants considered appropriate for the setting of this area on the edge of the former oil refinery.

In the absence of any known sources of historical contamination, a generic suite comprising the majority of determinands listed in the RBSLs, was scheduled on all soil samples collected during the ground investigation across this area. Once determined, should final floor levels be proposed to lie at or below the current ground levels, the availability of this additional data will enable a

reassessment of the relevant data without the need for further investigation and/or additional sampling.

Due to the absence of any identified sources of historical solvent use within this area, no testing for volatile organic compounds was undertaken for this area.

The analytical suite comprised:

- Metals - arsenic, cadmium, chromium, copper, lead, nickel, mercury, selenium, vanadium, zinc (all samples);
- pH (all samples);
- Polycyclic Aromatic Hydrocarbons (all samples);
- Speciated Petroleum Hydrocarbon including BTEX hydrocarbons (all samples);
- Soil Organic Matter (selected samples); and
- Asbestos screen and identification (samples in top 1m from existing ground level only, assuming that current levels represent 1m below FFL and the asbestos RBSL does not apply at depths greater than 2m below FFL in a residential land use scenario).

The achieved frequency of testing, based on the recent trial pitting, is discussed in Section 7.

4.4. Soil and Groundwater Contamination

4.4.1. Visual and Olfactory Evidence of Contamination

A review of the logs for the 101 trial pits recently excavated within Monitor Phase 53 shows that visual and/or olfactory evidence of contamination was identified in two locations.

These trial pits, listed below, are located in the central eastern part of Monitor Phase 53 (refer to Drawing 5041216-REM-DWG-1780):

- Trial pit NSE031 in which a VO score of 2,2 was recorded from 0.2m to 3.1m depth; and
- Trial pit NSE53 in which an oily sheen was noted on groundwater at a depth of 3.0m.

4.4.2. Comparison with Risk Based Screening Levels

Comparison of the reported data with the Risk Based Screening Levels (RBSL) for deep (>1m below FFL) soils in a residential setting, based on a 1% SOM, do not indicate any exceedances of the permitted thresholds.

No evidence of visible Asbestos Containing Materials (ACMs) was noted at any location during the ground investigation. A total of 93 samples, taken within the top 1m from existing ground levels across Monitor 53, underwent laboratory analysis for asbestos. In four samples the presence of asbestos was identified. The result of subsequent quantification on these samples is summarised in Table 4.1.

Table 4.1 – Summary of Asbestos Detected in Monitor Phase 53

Location	Sample Depth	Asbestos Type	Quantification
NSE35	0.5m	Chrysotile (white) and Crocidolite (blue)	<0.001%
NSE36	0.5m	Chrysotile (white)	<0.001%
NSE85	0.5m	Chrysotile (white)	<0.001%
NSE115	0.5m	Chrysotile (white)	<0.001%

Asbestos was not recorded above the permitted threshold of 0.02% in any of the four samples.

5. Requirements under the S106

5.1. Section 106 Deed of Planning Obligations Requirements

Monitor Phase 53 is shown on the current Masterplan as an area of proposed residential development.

Following the review of available data, the Monitor Phase 53 area is considered to represent a **‘residential end use where groundwater is in rock’** scenario, as outlined in the S106.

Based upon this classification, the following remediation requirements are stated in the S106 (Schedule 8, Section 4.0) as being the minimum remediation requirements required in order to release this area for redevelopment as residential housing.

- *All oil saturated soils should be removed.*
- *All soils must be remediated so as to meet the RBSLs for TPH, BTEX and PAHs at the relevant depth relative to FFL and aesthetic criteria Class 2 or better at greater than 1m below FFL.*
- *The aesthetic quality of soils shall be Class 1 or better for at least the first metre below FFL.*
- *Soils where there is visible ash and clinker, or metal concentrations above RBSLs, are to be removed so that none is retained within the first metre below FFL in garden areas.*
- *Where it is not practicable to address groundwater contamination within bedrock, this must be controlled eg, where seeps, sheens and iron staining discharge from the bedrock. Acceptable methodologies for remediation may include, but are not limited to, the use of land drainage via interceptors. Control measures should result in no visible discharge at the surface and little or no odour observable.*
- *All soils potentially containing dispersed asbestos fibres or visible ACM must be removed or remediated to meet in bulk, considering both dispersed fibres and pieces of ACM, the appropriate ACM RBSL, or to meet the requirements of relevant Environmental Authorities, whichever is the more conservative.*

S106 requirements for a residential end use where groundwater is in soil (Schedule 8, Part 3, Para 5.6) requires the following:

- *‘All soil potentially containing dispersed asbestos fibres or visible ACM must be removed or remediated to meet in bulk...the appropriate ACM, or the requirements of the relevant Environmental Authorities, whichever is the most conservative, to a minimum depth of 2m below FFL’.*

Although Monitor Phase 53 is considered to be representative of a ‘residential where groundwater is in rock’ scenario, the adoption of this approach to asbestos within the current plot is considered to be conservative in the absence of shallow groundwater which could aid the mobility of shallow contamination.

Schedule 10, Paragraph 6 of the S106 states that ‘Irrespective of the Intended Use of each Phase or part thereof, all existing buried services at the Property shall be removed and the routes of those services shall be backfilled with material no more permeable than the general material in the vicinity’. Where required, it is envisaged that such works would be carried out in conjunction with other remedial works within an area.

In the absence of any information relating to proposed development levels, the following assessment assumes that current ground levels within Monitor Phase 53, shown on Drawing 5041216-ATK-DR-C-REM-2007, represent 1m below FFL within any final development.

6. Identified Issues requiring further works

Recent trial pitting works across Monitor Phase 53 have identified the following issues requiring further investigation and/or removal in order to meet with the requirements of the S106, as summarised in Section 5.

1. Although not an exceedance of the permitted VO threshold of 2,2 for deep (>1m) soils in a residential land use, the assigned score of 2,2 from 0.2m to 3.1m bgl in trial pit NSE31 was considered to require additional investigation due to the absence of any record of visual or olfactory evidence of contamination at this location suggested by the geological description. Discussion of the investigation carried out is presented in Section 6.2.2 of this report.
2. The log for trial pit NSE53 shows that the water strike on which an oily sheen was observed occurred on competent bedrock at 3.0mbgl, at the base of a zone of weathered bedrock. The overlying soil was clean, with no visual or olfactory evidence of contamination recorded. The trial pits surrounding NSE53 were all excavated to bedrock during the ground investigation with no visual or olfactory evidence of contamination recorded in soil or on bedrock. There is considered to be no source of oily sheens in this location and it is more plausible that the oily sheen was an ochreous precipitate. In response to this conflicting evidence, then further investigation was proposed in the location of NSE53 to determine the presence, or otherwise, of the reported oily sheen.

7. Validation

7.1. Requirements of the S106

The S106 (Schedule 8, Part 3, Section 8) sets out the requirements for validation testing as part of the ongoing redevelopment of the former Llandarcy Oil Refinery, relevant details from which are presented in Table 7.1.

Table 7.1 - Minimum Validation Testing Frequencies - Residential End Use

Testing for the Validation Suite ¹ at the following frequency:	Deeper Soils (Residential >1m below FFL)
Imported quarried material	1 per 1000m ³ ex situ, composite of 5 regular sub-samples
Imported soil from verified greenfield site	1 per 500m ³ ex situ, composite of 5 regular sub-samples
Imported soil from characterised brownfield site ¹	1 per 50m ³ ex situ, composite of 5 sub-samples
0.5-1m below FFL in-situ	n/a
>1m below FFL in-situ	Regular grid of 1 per 100m ² , sample over 1m depth
Stockpiled excavated site materials for re-use	1 per 100m ³ ex situ, composite of 5 sub-samples
Face of remedial excavations <1m deep	n/a
Face of remedial excavations >1m deep	1 per 10m ² , minimum of 1 per face, worst case VO sample
Along redundant service excavations	1 per 20m of trench, worst case VO sample
Soil treated ex-situ and homogenised	1 per 200m ³ , composite of 5 regular sub-samples

¹ Validation suite to reflect prior use of the originating brownfield site and the design and purpose of the relevant area of Coed Darcy.

VO = visual/olfactory (i.e. aesthetic) observation

Following discussions with the Monitor, in line with the absence of any known sources of contamination across this area, it was agreed to reduce the investigation frequency for the purpose of preliminary investigation. A frequency of 1 per 400m² was, therefore, agreed on the assumption that preliminary investigation confirmed the absence of any significant contamination within this area. Where contamination was identified, the need for further investigation was agreed.

As previously highlighted, in the absence of any information relating to proposed development levels for this area, it has been assumed that current ground levels within Monitor Phase 53, as shown on Drawing 5041216-ATK-DR-C-REM-2007, represent a level of 1m below FFL for the purpose of comparison with the requirements of the S106.

7.2. Validation Sampling

7.2.1. Ground Investigation

The locations of recent ground investigation across Monitor Phase 53 are shown on Drawing 5041216-REM-DWG-1780. Copies of exploratory logs for recent investigation are presented in Appendix B.

A total of 101 trial pits have been undertaken Atkins/ESG within Monitor Phase 53 and a total of 235 environmental samples from Monitor Phase 53 have been subject to laboratory analysis, the results of which are presented in Appendix C.

Based on an approximate area of 38,620 m², 101 trial pits equates to an approximate frequency of one pit per 382m². A total of 235 samples equates to an approximate sample validation frequency of 1 test per 164m². Due to access constraints, ie the ongoing use of this area as a bowling green, no intrusive investigation could be carried out within the southern part of Monitor Phase 53 during the recent works. Based on the information available, however, the ground conditions across the northern part of Monitor Phase 53 are considered to be representative of the entire phase.

All of these validation frequencies are compliant with the agreed frequency of 1 test per 400m² for in situ materials.

7.2.2. Further Investigative Works

In line with the need for further investigation, as outlined in Section 6, an additional trial pit (NSE31A) was excavated within the immediate vicinity of NSE31 in which a VO score of 2,2 had been assigned during the ground investigation. The location of NSE31A is shown on Drawing 5041216-REM-DWG-1780.

No visual or olfactory evidence of contamination was identified and a score of 0,0 was therefore assigned. Given the absence of any historical development and/or evidence of contamination noted across this area, the original score is assumed to represent a transcription error in the field or log input. Photographs taken during the excavation of NSE31A are included in Appendix E.

Details of further investigation around NSE53, relating to an identified 'oily sheen' are provided in Technical Note 5041216-OSW-TN-1350 included as Appendix D.

7.3. Summary

A summary of the status of Monitor Phase 53, in line with the requirements of the S106 and the format of the required Monitor Certification, is presented in Table 7.2 below:

Table 7.2 – Validation Summary

Requirement	Status	Comment
Chemical quality of soils in situ	Complete	No exceedences of the permitted thresholds noted during the investigation. Testing frequency compliant with agreed frequency for Monitor Phase 53. Increased frequency not considered necessary because of the absence of identified contamination.
VO quality of soils in situ	Complete	Subsequent to further investigation (refer to Section 7.2.2) no exceedances of VO have been identified within this area.
Observations of groundwater for the presence of free phase product	Complete	No free product identified (refer to Technical Note 5041216-OSW-TN-1350 summarising further investigation of reported oil sheen which is considered to actually represent ochreous precipitate).
Chemical and VO quality of imported material	N/A	No materials were imported to Monitor Phase 53 during the works.

Requirement	Status	Comment
Compliance with adopted thresholds	Complete	No exceedances of chemical thresholds recorded (refer to section 4.4.2).
Removal of oil saturated soils	N/A	None identified.
Asbestos Assessment	Complete	Asbestos was identified in four sample, however, laboratory quantification indicates concentrations below the method detection limit. No visible ACMs identified at any location during the recent ground investigation works.
Control of seeps, sheens and iron staining from bedrock	N/A	Ochreous precipitate encountered at depth in NSE53. No control measures are considered necessary.

8. Summary

Atkins has been commissioned by St. Modwen Developments Ltd to undertake an assessment of an area of the former refinery with a view to enabling Monitor sign-off for this area in terms of a proposed commercial end use. For the purpose of Monitor Sign off, this area shall be referred to as Monitor Phase 53.

Based upon a review of available information, including some further investigation as detailed in Appendix D, Monitor Phase 53 has been deemed to be suitable for a residential end use >1m bgl in line with the requirements of the S106 for the proposed redevelopment.

It should be noted that recent ground investigation works focussed predominantly on contamination across this area and further assessment to assess potential geotechnical constraints within this Phase should be carried out prior to any proposed development.

Appendices

Appendix A. Summary of Adopted Thresholds

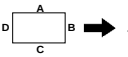
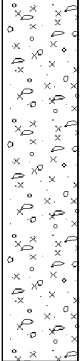
Contaminant	Minimum of RTC (1%) / RBSL mg/kg	Minimum of RTC (3%) / RBSL mg/kg
Benzo(a)pyrene	>sat	>sat
Benzene	0.4	0.4
Toluene	52	52
Ethylbenzene	140	140
Xylene	58	58
TPH aromatic C7-C8	146	146
TPH aromatic C8-C10	71	209
TPH aromatic C10-C12	1390	1390
TPH aromatic C12-C16	>sat	>sat
TPH aliphatic C6-C8	>sat	>sat
TPH aliphatic C8-C10	42.5	125
TPH aliphatic C10-C12	>sat	>sat
TPH aliphatic C12-C16	>sat	>sat
TPH aliphatic C16-C21	>sat	>sat
TPH aliphatic C21-C35	>sat	>sat
TPH aromatic C16-C21	>sat	>sat
TPH aromatic C21-C35	>sat	>sat
Total TPH (Phase 1)	9180	9180
Total TPH (Process Area)	4100	4100
Total TPH (North Tank Farm)	3800	3800
Total TPH (South Tank Farm)	2790	2790
1,2-Dichloroethane	0.0111	0.0176
1,1,1-Trichloroethane	10.8	25.9
Tetrachloroethene	2.3	6.12
Trichloroethene	0.188	0.463
Vinyl chloride	0.00093	0.00129
Dichloromethane	4.19	6.04
Cis-1,2-Dichloroethene	0.206	0.392
Trans-1,2 Dichloroethene	0.332	0.689
Acenaphthene	>sat	>sat
Anthracene	>sat	>sat
Benzo(a)anthracene	>sat	>sat
Benzo(b)fluoranthene	>sat	>sat
Benzo(g,h,i)perylene	>sat	>sat
Benzo(k)fluoranthene	>sat	>sat
Chrysene	>sat	>sat
Dibenz(ah)anthracene	>sat	>sat
Fluoranthene	>sat	>sat
Fluorene	>sat	>sat
Indeno(1,2,3-cd)pyrene	>sat	>sat
Pyrene	>sat	>sat
Phenol	1030	2340
Mercury (methyl)	27.7	62.5
Mercury (elemental)	0.291	0.87
Naphthalene	2.8	8.02
TPH aromatic C5-C7	0.46	0.987
TPH aliphatic C5-C6	112	246
1,1,1,2-Tetrachloroethane	1.84	5.09
1,1,2,2-Tetrachloroethane	4.71	11.3
Carbon tetrachloride	0.0309	0.0801
Chlorobenzene	17.9	47.9

Notes

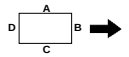
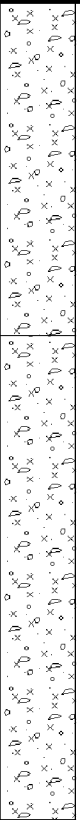
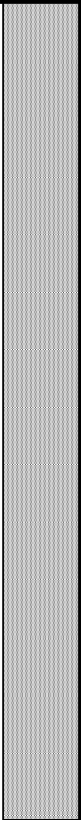
- Where the lower of the vapour or aqueous saturation limits have been exceeded by the RTC calculated, the hazard quotient is considered to be less than 1 and as such >sat has been presented
- Xylene - the lowest RTC of the three isomers has been presented. Users must consider total exposure from all xylene isomers and not consider them in isolation
- TPH >C16 are not considered to be volatile according to TPHCWG. Consequently the inhalation of vapour pathways have not been considered and therefore no RTC value has been presented here
- 'Total' TPH RBSL derived for an area of development, based on individual RBSL and available mass fraction TPH data in soil at time of derivation, using the inverse weighted average approach.
- Benzo(a)pyrene RBSL to be compared against sum of 16 US EPA Priority List PAHs using Toxicity Equivalence approach
- TPH aromatic C7-C8 is considered to comprise toluene only by Atkins
- Asbestos has not been considered here as it is being considered in a separate report
- Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-00216
- TPH aromatic C5-C7 is considered to comprise benzene only

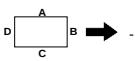
Appendix B. Exploratory Hole Logs

Trial Pit Log

Logged JC Checked AP		Start 03/11/2014 End 03/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.00m Terminated as no progress through cobbles.	Dimensions and Orientation Width 1.20 m Length 4.30 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 Brown silty locally silty sandy gravelly, fine to coarse SAND with low cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	(0.80)		
1.50	ES 2		2 Very soft to soft light brown sandy gravelly SILT with low to medium cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	0.80 (1.20)		
			EXPLORATORY HOLE ENDS AT 2.00 m	2.00		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy,raining		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE100 Sheet 1 of 1		

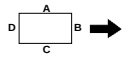
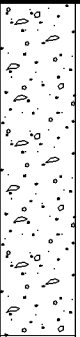
Trial Pit Log

Logged JC Checked AP	Start 03/11/2014 End 03/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.70m Unable to progress through cobbles.	Dimensions and Orientation Width 2.10 m Length 4.40 m 	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Soft to firm brown sandy slightly gravelly SILT. Gravel is subangular to subrounded, fine to coarse of sandstone. Sand is fine to coarse. (VO = 0,0)	(1.10)		
1.50	ES 2		2 Very soft to soft light brown sandy gravelly SILT with low to medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	1.10 (1.60)		
2.50	ES 3			2.70		
			EXPLORATORY HOLE ENDS AT 2.70 m			
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE101 Sheet 1 of 1	

Logged AW Checked AP		Start 06/11/2014 End 06/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.2m Terminated on bedrock.		Dimensions and Orientation Width 1.30 m Length 6.00 m 		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots.			(0.30)		
			2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular sandstone. (VO = 0,0)			(0.90)		
			EXPLORATORY HOLE ENDS AT 1.20 m			1.20 Sandstone bedrock.		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Dry,windy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:12:24 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE103 Sheet 1 of 1		

Logged SP Checked AP	Start 28/11/2014 End 28/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D
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Trial Pit Log

Logged JC Checked AP	Start 03/11/2014 End 03/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.20m Unable to progress through cobbles.	Dimensions and Orientation Width 1.90 m Length 4.10 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Brown silty locally silty slightly gravelly, fine to coarse SAND with low cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	(1.10)		
1.50	ES 2		2 Soft to firm light brown sandy slightly gravelly SILT with low cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	1.10 (1.10)		
			EXPLORATORY HOLE ENDS AT 2.20 m	2.20		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE112 Sheet 1 of 1	

Trial Pit Log

Logged JC Checked AP		Start 31/10/2014 End 31/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.70m Unable to progress through cobbles.	Dimensions and Orientation Width 1.80 m Length 4.60 m A D B C ➔		Ground Level Coordinates National Grid Chainage
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Soft to firm light brown mottled orange sandy slightly gravelly SILT. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(1.00)		
1.50	ES 2		2 Light brown silty locally silty SAND and GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	1.00 (1.70)		
2.50	ES 3					
			EXPLORATORY HOLE ENDS AT 2.70 m	2.70		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:12:29			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE113 Sheet 1 of 1	

Logged JC Checked AP	Start 30/10/2014 End 30/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.20m Unable to progress through cobbles.	Dimensions and Orientation Width 1.70 m Length 4.10 m A D B C ➔		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Soft to firm orangish light brown to brown sandy gravelly SILT. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(1.30)		
1.50	ES 2		2 Brown silty locally silty SAND and GRAVEL with low to medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	1.30		
2.50	ES 3			(1.90)		
			EXPLORATORY HOLE ENDS AT 3.20 m	3.20		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4808/01/2015 16:00:43			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE114 Sheet 1 of 1	

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Trial Pit Log



Logged JC Checked AP		Start 31/10/2014 End 31/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.20m Unable to progress through cobbles.	Dimensions and Orientation Width 1.80 m Length 3.90 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.50	ES 1		1 Soft to firm orangish brown sandy gravelly SILT. Gravel is subangular to subrounded, fine to coarse of sandstone. Sand is fine to coarse. (VO = 0,0)	(1.20)				
1.50	ES 2		2 Brown silty SAND and GRAVEL with low to medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subrounded of sandstone. (VO = 0,0)	1.20				
2.50	ES 3			(2.00)				
			EXPLORATORY HOLE ENDS AT 3.20 m	3.20				
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:12:32 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE116 Sheet 1 of 1		

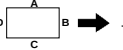
Logged Nk Checked AP		Start 11/11/2014 End 11/11/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.9m Terminated on bedrock.		Dimensions and Orientation Width 1.00 m Length 4.00 m A D C B →		Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata							
Depth	Type & No.	Date Records	Description					Depth, Level/ (Thickness)	Legend	Backfill/ Instrument
0.50	ES 1		1 Light brown slightly gravelly SILT. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)					(1.40)		
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone some tabular. Occasional gravel sized orange and grey pockets of medium sand. (VO = 0,0)					1.40 (1.50)		
2.50	ES 3									
			EXPLOATORY HOLE ENDS AT 2.90 m					2.90		

Logged NK Checked AP	Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.2m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m		A B C D		Ground Level Coordinates National Grid Chainage
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument	
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to coarse of sandstone. Frequent rootlets. (VO = 0,0)	(1.10)			
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)	1.10			
2.50	ES 3			(2.10)			
			EXPLORATORY HOLE ENDS AT 3.20 m	3.20			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4813/01/2015 08:56:19			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE118 Sheet 1 of 1		

Logged SP	Start 28/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m		Ground Level Coordinates National Grid Chainage	
Checked AP	End 28/11/2014		A B C D			
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Firm dark brown sandy slightly gravelly SILT with low cobble content. Gravel is subangular to well rounded of sandstone. Sand is fine to coarse. Cobbles are subangular to well rounded of sandstone and occasional rootlets. (VO = 0,0)	(0.75)		
1.50	ES 2		2 Dark greyish brown gravelly clayey, fine to coarse SAND with low cobble content. Gravel is angular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are angular to well rounded of mixed lithologies including sandstone and siltstone.	0.75 (1.25)		
			EXPLORATORY HOLE ENDS AT 2.00 m	2.00		

Logged JC Checked AP		Start 31/10/2014 End 31/10/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.90m Unable to progress through cobbles.		Dimensions and Orientation Width 1.80 m Length 3.80 m A B C D ➔		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata							
Depth	Type & No.	Date Records	Description					Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Very soft to soft orangish light brown sandy gravelly SILT. Gravel is angular to subrounded, fine to coarse of sandstone. (VO = 0,0)					(0.90)		
1.50	ES 2		2 Brown silty SAND and GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)					0.90 (2.00)		
2.50	ES 3									
			EXPLORATORY HOLE ENDS AT 2.90 m					2.90		

Logged JC	Start 31/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.40m. Unable to progress through cobbles.	Dimensions and Orientation Width 1.60 m Length 3.80 m	Ground Level Coordinates National Grid Chainage		
Checked AP	End 31/10/2014		A B C D			
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light orangish brown sandy gravelly SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of sandstone. (VO = 0,0)	(1.20)		
1.50	ES 2		2 Brown silty SAND and GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	1.20		
2.00	ES 3			(1.20)		
			EXPLORATORY HOLE ENDS AT 2.40 m	2.40		

Logged JC Checked AP	Start 30/10/2014 End 30/10/2014	Equipment, Methods and Remarks Komatsu PC210 machine excavated trial pit from GL to 3.0m Unabel to progress through cobbles.	Dimensions and Orientation						Ground Level Coordinates National Grid Chainage	- - -
			Width 2.00 m Length 4.20 m							
Samples and Tests			Strata							
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments				
0.50	ES 1		1 Soft to firm orangish light brown and brown sandy gravelly SILT. Gravel is angular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(1.10)	[Symbol]					
1.50	ES 2		2 Brown silty gravelly, fine to coarse SAND with low cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	1.10 (1.90)	[Symbol]					
2.50	ES 3				[Symbol]					
			EXPLORATORY HOLE ENDS AT 3.00 m	3.00						
Depth	Type & No.	Records Date								
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)						Stability Stable	
									Shoring None	
									Weather Cloudy,windy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited						Trial Pit NSE122 Sheet 1 of 1	

Trial Pit Log



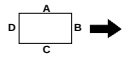
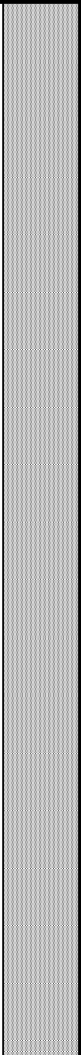
Logged AW Checked AP		Start 07/11/2014 End 07/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.9m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D →		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots.	(0.30)				
			2 Brown slightly silty gravelly fine to coarse SAND with high cobble content and low boulder content. Gravel is angular to subrounded fine to coarse of sandstone. Cobbles and boulders are subangular to subrounded of sandstone. (VO - 0,0)	0.30				
1.50	ES 2			(1.60)				
			EXPLORATORY HOLE ENDS AT 1.90 m	1.90				
			1.90 m Sandstone bedrock.					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Wet, overcast		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4818/01/2015 14:52:31 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE125 Sheet 1 of 1		

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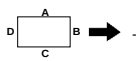
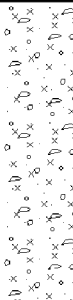
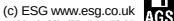
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[illegible]

Trial Pit Log

Logged AW Checked AP		Start 05/11/2014 End 05/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.5m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Brown slightly silty, fine to coarse SAND with frequent roots. (TOPSOIL). (VO = 0,0) 2 Brown slightly silty gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	0.20			
1.50	ES 2			(3.30)			
2.50	ES 3						
3.50	ES 4		EXPLORATORY HOLE ENDS AT 3.50 m 3.50 m Sandstone bedrock.	3.50			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Dry, clear		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE135 Sheet 1 of 1		

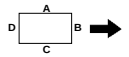
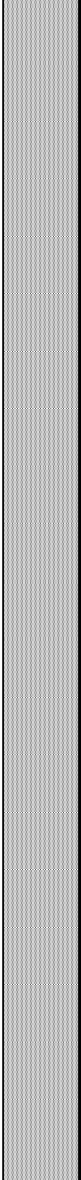
Trial Pit Log

Logged JC Checked AP		Start 30/10/2014 End 30/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.30m Unable to progress through cobbles.		Dimensions and Orientation Width 1.60 m Length 4.60 m 		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Soft to firm orangish light brown sandy gravelly SILT. Gravel is angular to subrounded, fine to coarse of sandstone. Sand is fine to coarse. (VO = 0,0)			(1.00)		
1.50	ES 2		2 Light brown silty gravelly, fine to coarse SAND with low to medium cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO - 0,0)			1.00		
2.50	ES 3					(2.30)		
			EXPLORATORY HOLE ENDS AT 3.30 m			3.30		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE137 Sheet 1 of 1		

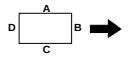
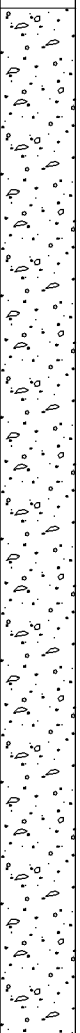
Trial Pit Log

Logged JC Checked AP		Start 31/10/2014 End 31/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.0m Unable to progress through cobbles.	Dimensions and Orientation Width 1.20 m Length 4.40 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 Soft to firm brown sandy slightly gravelly SILT with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	(1.00)		
1.50	ES 2		2 Brown silty gravelly, fine to coarse SAND with low to medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	1.00 (2.00)		
2.50	ES 3					
			EXPLORATORY HOLE ENDS AT 3.00 m	3.00		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4908/01/2015 16:00:57			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE138 Sheet 1 of 1		

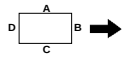
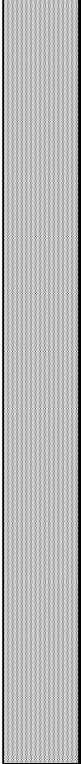
Trial Pit Log

Logged AW Checked AP		Start 05/11/2014 End 05/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.1m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Brown slightly silty, fine to coarse SAND with frequent roots. (TOPSOIL). (VO = 0,0) 2 Brown slightly silty gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	0.20			
1.50	ES 2			(3.90)			
2.50	ES 3						
3.50	ES 4						
			3.90 m Medium cobble content. Cobbles are subangular of sandstone. 4.10 m Sandstone EXPLORATORY HOLE ENDS AT 4.10 m	4.10			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Dry, clear		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE140 Sheet 1 of 1		

Trial Pit Log

Logged AW Checked AP		Start 05/11/2014 End 05/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.60m Unable to progress beyond 3.60m	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 TOPSOIL (VO = 0,0)	0.20			
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(3.40)			
2.50	ES 3						
			3.00 m Medium cobble content. Cobbles are subangular to subrounded of sandstone.				
			EXPLORATORY HOLE ENDS AT 3.60 m	3.60			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Dry, clear		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE141 Sheet 1 of 1		

Trial Pit Log

Logged AW Checked AP		Start 05/11/2014 End 05/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.7m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Brown slightly silty, fine to coarse SAND with frequent roots. (TOPSOIL). (VO = 0,0) 2 Brown slightly silty gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone with frequent angular sandstone cobbles, (VO = 0,0)	0.20			
1.50	ES 2			(2.50)			
			EXPLORATORY HOLE ENDS AT 2.70 m 2.70 m Sandstone bedrock.	2.70			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Dry, clear.		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE142 Sheet 1 of 1		

[illegible]

Logged JC Checked AP	Start 29/10/2014 End 29/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.10m Unable to progress through cobbles.	Dimensions and Orientation Width 1.80 m Length 3.10 m A D B C ➔	Ground Level Coordinates National Grid Chainage	- - -
Samples and Tests			Strata		
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend Backfill/ Instruments
0.50	ES 1		1 Orangish light brown silty locally silty SAND and GRAVEL with low to medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	(1.10)	 
			EXPLORATORY HOLE ENDS AT 1.10 m	1.10	
Depth	Type & No.	Records Date			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy,raining	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4820/01/2015 15:18:29 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE15 Sheet 1 of 1	

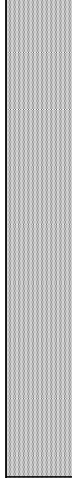
[illegible]

Trial Pit Log

[illegible]

[illegible]

Logged JC Checked AP	Start 29/10/2014 End 29/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.20m Unable to progress thrial through cobbles.	Dimensions and Orientation Width 1.80 m Length 3.10 m A B C D E	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.60	ES 1		1 Very soft to soft orangish light brown sandy gravelly SILT with occasional cobbles. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	(1.20)		
			EXPLOATORY HOLE ENDS AT 1.20 m	1.20		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4820/01/2015 15:18:31 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE16 Sheet 1 of 1	

Drilled Logged AW Checked AP		Start 13/11/2014 End 13/11/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.2m Terminated on bedrock.		Depth from to Diameter Casing Depth		Ground Level Coordinates National Grid Chainage		
Samples and Tests					Strata					
Depth		Type & No	Records	Date Casing	Time Water	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.70		ES 1	Taken by JC 29/10/2014			(TOPSOIL) Brown silty fine to coarse SAND with frequent roots. (VO = 0,0) Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangulat sandstone. (VO = 0,0)		0.20		
1.50		ES 2						(3.00)		
2.50		ES 3								
						EXPLORATORY HOLE ENDS AT 3.20 m		3.20		
Depth		Type & No	Records	Date Casing	Time Water					
Groundwater Entries No. Struck Post strike behaviour (m) None observed (see Key Sheet)						Depth Related Remarks * From to (m)		Chiselling Depths (m)	Time	Tools used
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.						Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Borehole NSE17 Sheet 1 of 1		

Logged JC Checked AP	Start 29/10/2014 End 29/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.70m Unable to progress through cobbles.	Dimensions and Orientation Width 1.80 m Length 3.20 m A D C B →		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Very soft to soft orangish light brown sandy gravelly SILT with occasional cobbles. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subrounded of sandstone. (VO = 0,0)	(1.70)		
1.50	ES 2					
			EXPLORATORY HOLE ENDS AT 1.70 m	1.70		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4820/01/2015 15:18:35			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE18 Sheet 1 of 1	

Trial Pit Log

Logged JC Checked AP	Start 29/10/2014 End 29/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.10m Unable to progress through cobbles.	Dimensions and Orientation Width 1.60 m Length 3.20 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests		Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Very soft to soft orangish light brown sandy gravelly SILT. Gravel is angular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(1.30)		
1.50	ES 2		2 Brown silty locally silty SAND and GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	1.30 (0.80)		
			EXPLORATORY HOLE ENDS AT 2.10 m	2.10		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy,raining	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4820/01/2015 15:18:37			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE19 Sheet 1 of 1	

Trial Pit Log



Logged JC Checked AP		Start 29/10/2014 End 29/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.30m Unable to progress through cobbles.	Dimensions and Orientation Width 1.90 m Length 4.40 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Very soft to soft orangish light brown sandy gravelly SILT with low cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)			(1.10)		
1.50	ES 2		2 Brown silty locally silty SAND and GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)			1.10 (1.20)		
			EXPLORATORY HOLE ENDS AT 2.30 m			2.30		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) 1 2.00 Slight seepage.			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy,raining		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4820/01/2015 15:18:39			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE20 Sheet 1 of 1		

Trial Pit Log

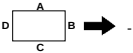
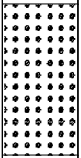


Logged JC Checked AP		Start 29/10/2014 End 29/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.30m Unable to progress through cobbles.	Dimensions and Orientation Width 1.80 m Length 4.30 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.50	ES 1		1 Very soft to soft orangish light brown sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(1.10)				
1.50	ES 2		2 Brown silty locally silty gravelly, fine to coarse (predominantly fine to medium) SAND with low to medium cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subrounded of sandstone. (VO = 0,0)	1.10 (1.20)				
			EXPLORATORY HOLE ENDS AT 2.30 m	2.30				
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy,raining		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4820/01/2015 15:18:42			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE21 Sheet 1 of 1		

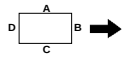
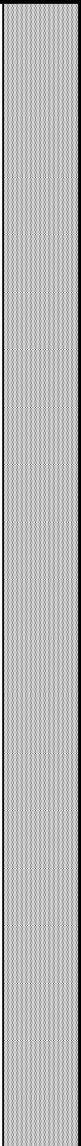
Logged NK Checked AP	Start 14/11/2014 End 14/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.1m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m A B C D ➔		Ground Level Coordinates National Grid Chainage	- - -
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instrument
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)	(1.40)		
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)	1.40		
2.50	ES 3			(1.70)		
			EXPLORATORY HOLE ENDS AT 3.10 m	3.10		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Sunny	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 09:00:08			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE215 Sheet 1 of 1	

Logged NK Checked AP		Start 14/11/2014 End 14/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.9m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.50 m		A B C D ➔		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata						
Depth	Type & No.	Date Records	Description				Depth, Level (Thickness)	Legend	Backfill/ Instrument
0.50	ES 0		1 Light brown mottled dark brown slightly sandy slightly gravelly SILT with low cobble content. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Cobbles are subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)				(1.10)		
1.50	ES 1		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)				1.10 (1.80)		
2.50	ES 2								
			EXPLORATORY HOLE ENDS AT 2.90 m				2.90		

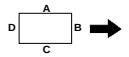
Trial Pit Log

Logged AW Checked AP		Start 05/11/2014 End 05/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 0.60m. Terminated in bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown slightly silty fine to coarse SAND with frequent roots and rootlets. (VO = 0,0) 2 Orangish brown SANDSTONE recovered as angular to subrounded fine to coarse gravel with high cobble content. Cobbles are subangular to subrounded. (VO = 0,0)			0.10 (0.50)		
			EXPLORATORY HOLE ENDS AT 0.60 m			0.60		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Overcast		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE217 Sheet 1 of 1		

Trial Pit Log

Logged AW Checked AP		Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.8m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 8.00 m 		Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 0	Taken by JC 4/11/14	1 Brownish orange slightly gravelly silty, fine to coarse SAND with frequent roots. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	0.50			
1.50	ES 1		2 Brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	(3.30)			
2.50	ES 2						
3.50	ES 3						
			 3.80 m Bedrock EXPLORATORY HOLE ENDS AT 3.80 m	3.80			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring none Weather Windy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE218 Sheet 1 of 1		

Trial Pit Log

Logged AW Checked AP		Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.3m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 0		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0) 2 Brown slightly silty gravelly, fine to coarse SAND with frequent cobbles of angular to subangular of sandstone. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	0.20		
1.50	ES 1			(4.10)		
2.50	ES 2					
3.50	ES 3					
			EXPLORATORY HOLE ENDS AT 4.30 m	4.30		
Groundwater Entries No. Struck Post Strike Behaviour (m) 1 4.00 Some oozing.			Depth Related Remarks * From to (m)		Stability Some spalling Shoring None Weather Very windy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE219 Sheet 1 of 1	

Logged JC Checked AP	Start 30/10/2014 End 30/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.80m Unable to progress through cobbles.	Dimensions and Orientation Width 1.90 m Length 4.50 m A B C D B →	Ground Level Coordinates National Grid Chainage	- - -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Very soft to soft sandy gravelly SILT. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(0.90)		
1.50	ES 2		2 Brown silty locally silty SAND and GRAVEL with low to medium cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	0.90 (1.90)		
2.50	ES 3					
			EXPLORATORY HOLE ENDS AT 2.80 m	2.80		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:11:42 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE22 Sheet 1 of 1	

Trial Pit Log

Logged AW Checked AP		Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.60m. Terminate due to collapse.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots.	(0.50)		
1.50	ES 2		2 Orangish brown silty fine to coarse SAND. (VO = 0,0)	0.50		
2.50	ES 3			(2.90)		
3.50	ES 4		3 Light grey sandy SILT. Sand is fine to coarse. (VO = 0,0)	3.40		
			EXPLORATORY HOLE ENDS AT 3.60 m	3.60		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour 1 3.40 Slow inflow.			Depth Related Remarks * From to (m)	Stability Collapse of face A and C. Shoring None Weather Overcast		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE220 Sheet 1 of 1		

Logged JC	Start 30/10/2014	Equipment, Methods and Remarks	Dimensions and Orientation	Ground Level		
Checked AP	End 30/10/2014	Komatsu PC210 Machine excavated trial pit from GL to 3.20m Unable to progress through cobbles.	Width - Length - A B C D	Coordinates - National Grid - Chainage -		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Soft to firm orangish light brown sandy gravelly SILT. Gravel is angular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(1.10)		
1.50	ES 2		2 Light brown silty locally silty gravelly, fine to coarse SAND with low cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	1.10		
2.50	ES 3			(2.10)		
			EXPLORATORY HOLE ENDS AT 3.20 m	3.20		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE23 Sheet 1 of 1	

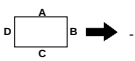
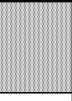
Trial Pit Log



Logged NK Checked AP		Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.2m Terminated due to collapse	Dimensions and Orientation Width 1.00 m Length 5.00 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 0	Taken by JC	1 Light brown slightly sandy slightly gravelly SILT. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Occasional rootlets. (VO = 0,0)		(2.10)			
1.50	ES 1							
2.50	ES 2		2 Brown slightly silty gravelly, medium to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)		2.10 (1.10)			
			EXPLORATORY HOLE ENDS AT 3.20 m		3.20			
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m)		Stability Unstable Shoring None Weather Cloudy			
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4818/01/2015 14:52:06 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE25 Sheet 1 of 1			

Trial Pit Log

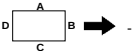
Logged NK Checked AP	Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.3m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments
0.50	ES 0	Taken by JC	1 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)	(4.10)		
1.50	ES 1					
2.50	ES 2					
3.50	ES 3					
4.40	ES 4		2 Orange slightly gravelly, medium SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of red medium sand. (VO = 0,0)	4.10		
4.90	ES 5		3 Grey mottled orange locally black SILT.	4.80		
Depth	Type & No.	Records Date	Stratum continues to 5.30 m			
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Windy,cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4818/01/2015 14:52:09			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE26 Sheet 1 of 2		

Logged NK Checked AP		Start 13/11/2014 End 13/11/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.3m Terminated on bedrock.		Dimensions and Orientation Width 1.00 m Length 5.00 m 		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata						
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
			(VO = 0,0)			(0.50)			
			EXPLOATORY HOLE ENDS AT 5.30 m			5.30			
Depth	Type & No.	Records Date							
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Wndy,cloudy			
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4818/01/2015 14:52:10 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE26 Sheet 2 of 2			

Logged NK Checked AP		Start 13/11/2014 End 13/11/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.2m Terminated on bedrock.		Dimensions and Orientation Width 1.00 m Length 5.00 m A B C D ➔		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata							
Depth	Type & No.	Date Records	Description					Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 0	Taken by JC	1 Light brown slightly sandy slightly gravelly SILT. Sand is fine to medium. Gravel is subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)					(0.90)		
1.50	ES 1		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Occasional gravel sized pockets of orangish grey medium sand. (VO = 0,0)					0.90		
2.50	ES 2							(2.20)		
3.50	ES 3		3 Brown gravelly, medium to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)					3.10		
4.50	ES 4							(2.10)		
Depth	Type & No.	Records Date	Stratum continues to 5.20 m							
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)					Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4818/01/2015 14.52:13			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited					Trial Pit NSE27 Sheet 1 of 2		

Trial Pit Log



Logged NK Checked AP		Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.2m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
			3 Brown gravelly, medium to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0) EXPLORATORY HOLE ENDS AT 5.20 m	5.20		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE27 Sheet 2 of 2	



Logged NK Checked AP	Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.9m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.50 m A D B C ➔		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
0.50	ES 0	Taken by JC	1 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)	(2.20)		
1.50	ES 1					
2.50	ES 2		2 Brown silty gravelly SAND with medium cobble content. Sand is medium to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. (VO = 0,0)	2.20		
3.50	ES 4					
			EXPLORATORY HOLE ENDS AT 3.90 m	3.90		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4813/01/2015 08:51:49			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE28 Sheet 1 of 1	

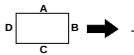
Trial Pit Log



Logged AW Checked AP		Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D →		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 0	Taken by JC 4/11/14	1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots. (VO = 0,0) 2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular sandstone. (VO = 0,0)			0.20		
1.50	ES 1							
2.50	ES 2					(3.80)		
3.50	ES 3							
			EXPLORATORY HOLE ENDS AT 4.00 m 4.00 m Sandstone bedrock.			4.00		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Shoring None Weather Dry,windy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4818/01/2015 14:52:17 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE29 Sheet 1 of 1		

Logged AW Checked AP	Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.9m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level Coordinates National Grid Chainage
Samples and Tests		Strata		
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)
0.50	ES 0	Taken by JC 4/11/14	1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots. (VO = 0,0) 2 Brown slightly silty gravelly, fine to coarse SAND with frequent angular to subangular cobbles of sandstone. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	0.20
1.50	ES 1			(3.70)
2.50	ES 2			
3.50	ES 3			
			EXPLORATORY HOLE ENDS AT 3.90 m 3.90 m Bedrock	3.90
Depth	Type & No.	Records Date		
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m)	Stability Some spalling Shoring None Weather Windy
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4818/01/2015 14:52:20 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE30 Sheet 1 of 1

Trial Pit Log

Logged AW Checked AP		Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.1m Terminated on bedrock.		Dimensions and Orientation Width 1.30 m Length 6.00 m 		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots.			0.20		
			2 Brown slightly silty gravelly, fine to coarse SAND with frequent cobbles of angular to subangular sandstone. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 2,2)					
			EXPLORATORY HOLE ENDS AT 3.10 m			3.10		
			3.10 m Sandstone bedrock.					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) 1 3.00 Pooling in base of pit			Depth Related Remarks * From to (m)			Stability Some spalling Shoring Nne Weather Dry,sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE31 Sheet 1 of 1		
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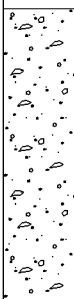
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Trial Pit Log



Logged AW Checked AP		Start 06/11/2014 End 06/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit form GL to 1.35m. Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots and rootlets. (VO = 0,0)			(0.35)		
			2 Brown slightly silty gravelly fine to coarse SAND with low cobble content. Gravel is subangular to subrounded fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)			0.35 (1.00)		
			EXPLORATORY HOLE ENDS AT 1.35 m 1.35 m Sandstone bedrock.			1.35		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4823/01/2015 15:18:06			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE34 Sheet 1 of 1		

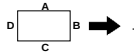
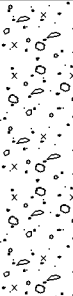
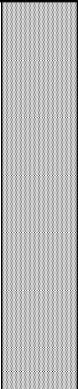
Logged AW	Start 06/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.3m Terminated on bedrock.		Dimensions and Orientation Width 1.30 m Length 6.00 m		Ground Level Coordinates National Grid Chainage		
Checked AP		End 06/11/2014	A B C D					
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0)			(0.30)		
			2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is angular to subangular, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)			0.30 (1.00)		
			EXPLORATORY HOLE ENDS AT 1.30 m			1.30 Sandstone bedrock.		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Some collapse Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE35 Sheet 1 of 1		

Trial Pit Log



Logged AW Checked AP		Start 06/11/2014 End 06/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.90m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots.			0.20		
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)			(1.70)		
			EXPLORATORY HOLE ENDS AT 1.90 m			1.90		
			1.90 m Sandstone bedrock.					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4815/01/2015 15:29:11 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE36 Sheet 1 of 1		

Trial Pit Log

Logged AW Checked AP		Start 06/11/2014 End 06/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.30m. Terminated due to collapse.		Dimensions and Orientation Width 1.30 m Length 6.00 m 		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots and rootlets. (VO = 0,0)			(0.30)		
			2 Brown slightly silty gravelly fine to coarse SAND with high cobble content. Gravel is angular to subangular fine to coarse of sandstone. Cobbles are angular to subrounded of sandstone. (VO = 0,0)			0.30 (1.00)		
			EXPLORATORY HOLE ENDS AT 1.30 m			1.30		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Unstable, collapse from 1.30m. Shoring None Weather Overcast		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4826/01/2015 14:19:26 			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE37 Sheet 1 of 1		

Logged AW Checked AP	Start 06/11/2014 End 06/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.0m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D E	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots.	0.20		
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	(1.80)		
			EXPLORATORY HOLE ENDS AT 2.00 m 2.00 m Sandstone.	2.00		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Some collapse Shoring None Weather Rain	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:11:50 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE38 Sheet 1 of 1	

[illegible]

Trial Pit Log

Logged AW Checked AP		Start 06/11/2014 End 06/11/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.0m Unable to progress beyond 1.00m depth.		Dimensions and Orientation Width 1.30 m Length 6.00 m A B C →		Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata							
Depth	Type & No.	Date Records	Description					Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots.					(0.30)		
			2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular of sandstone. Cobbles are subangular of sandstone. (VO = 0,0)					(0.70)		
			EXPLORATORY HOLE ENDS AT 1.00 m					1.00		
Depth	Type & No.	Records Date								
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)					Stability Stable Shoring None Weather Dry, overcast		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4815/01/2015 15:29:15 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited					Trial Pit NSE47 Sheet 1 of 1		

Trial Pit Log



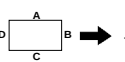
Logged AW Checked AP		Start 06/11/2014 End 06/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 0.80m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots. (VO = 0,0)	(0.30)		
			2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	0.30 (0.50)		
			EXPLORATORY HOLE ENDS AT 0.80 m 0.80' m Sandstone bedrock.	0.80		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4809/01/2015 15:11:54			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE48 Sheet 1 of 1		

Trial Pit Log

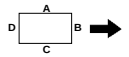
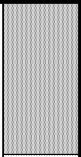
Logged AW Checked AP	Start 06/11/2014 End 06/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.7m Unable to progress beyond 1.70m depth.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0)	(0.40)		
			2 Brown slightly silty gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. Frequent cobbles of subangular to subrounded sandstone. (VO = 0,0)	0.40		
1.50	ES 2			(1.30)		
			EXPLORATORY HOLE ENDS AT 1.70 m	1.70		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring none Weather Rain	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE49 Sheet 1 of 1	

Trial Pit Log

Logged JC Checked AP		Start 03/11/2014 End 03/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.70m Terminated as no progress through cobbles.	Dimensions and Orientation Width 1.80 m Length 4.20 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 Brown silty locally silty gravelly, fine to coarse SAND with low cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	(1.20)		
1.50	ES 2		2 Very soft to soft light brown sandy gravelly SILT with medium cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	1.20 (0.50)		
			EXPLORATORY HOLE ENDS AT 1.70 m	1.70		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:11:57			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE50 Sheet 1 of 1		

Logged AW Checked AP	Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.9m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 		Ground Level Coordinates National Grid Chainage
Samples and Tests			Strata		
Depth	Type & No.	Date Records	Description	Depth, Level / Thickness	Legend Backfill/ Instrument
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0)	0.20	
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Cobbles are angular to subangular of sandstone. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(1.70)	
			EXPLORATORY HOLE ENDS AT 1.90 m	1.90	
Depth	Type & No.	Records Date			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain-light-very heavy
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 09:05:23 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE51 Sheet 1 of 1

Trial Pit Log

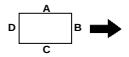
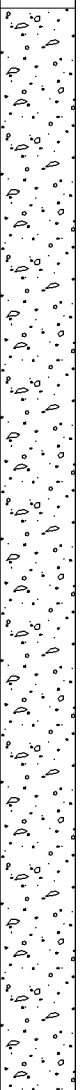
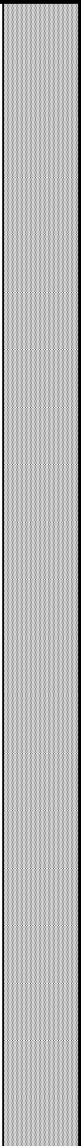
Logged AW Checked AP		Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 0.5m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots.	0.20		
			2 Brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Cobbles are angular to subangular of sandstone. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0) 0.50 m Bedrock.	(0.30)		
			EXPLORATORY HOLE ENDS AT 0.50 m	0.50		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Dry, sunny	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE52 Sheet 1 of 1	

Trial Pit Log

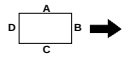
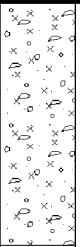
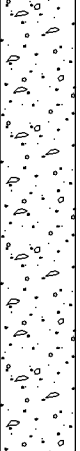
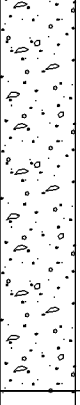


Logged AW Checked AP		Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.0m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots. (VO = 0,0)		0.20		1
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with high cobble and low boulder content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Boulders are subangular to rounded of sandstone. (VO = 0,0)		(2.80)		
2.50	ES 3						
			EXPLORATORY HOLE ENDS AT 3.00 m		3.00		
			3.00 m Bedrock				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) 1 3.00 Pooling some oily slick visible.			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Windy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4818/01/2015 14:52:29			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE53 Sheet 1 of 1		

Trial Pit Log

Logged AW Checked AP		Start 13/11/2004 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.80m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 0	Taken by JC 4/11/14	1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0) 2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is subangular to subrounded of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	0.20		
1.50	ES 1			(3.60)		
2.50	ES 2					
3.50	ES 3					
			 3.80 m Bedrock EXPLORATORY HOLE ENDS AT 3.80 m	3.80		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Windy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE54 Sheet 1 of 1	

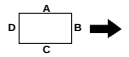
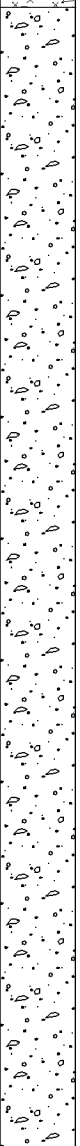
Trial Pit Log

Logged NK Checked AP	Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.3m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m 	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)	(0.80)		
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Rare gravel sized orange and grey pockets of medium sand. (VO = 0,0)	0.80 (1.40)		
2.50	ES 3		3 Brown slightly silty gravelly SAND with medium cobble content. Sand is medium to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, occasionally tabular fine to coarse of sandstone. (VO = 0,0)	2.20		
3.50	ES 4			(3.10)		
4.50	ES 5					
Depth	Type & No.	Records Date	Stratum continues to 5.30 m			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE55 Sheet 1 of 2	

Trial Pit Log

Logged NK Checked AP		Start 12/11/2014 End 12/11/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.3m Terminated on bedrock.		Dimensions and Orientation Width 1.00 m Length 5.00 m A D — B → C		Ground Level Coordinates National Grid Chainage		
Samples and Tests						Strata				
Depth		Type & No.	Date Records	Description				Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
				3 Brown slightly silty gravelly SAND with medium cobble content. Sand is medium to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, occasionally tabular fine to coarse of sandstone. (VO = 0,0) EXPLORATORY HOLE ENDS AT 5.30 m				5.30		
Depth		Type & No.	Records Date							
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)				Depth Related Remarks * From to (m)				Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25				Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited				Trial Pit NSE55 Sheet 2 of 2		

Trial Pit Log

Logged NK Checked AP	Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 0		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)	(1.20)		
1.50	ES 1		2 Brown silty gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. (VO = 0,0)	1.20		
2.50	ES 2					
3.50	ES 3			(3.80)		
4.50	ES 4					
Depth	Type & No.	Records Date	EXPLORATORY HOLE ENDS AT 5.00 m			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE56 Sheet 1 of 1	

Trial Pit Log



Logged NK Checked AP		Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.6m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 0		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)			(1.00)		
1.50	ES 1		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, occasionally tabular of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)			1.00 (1.60)		
2.50	ES 2		EXPLORATORY HOLE ENDS AT 2.60 m 2.60 m Bedrock.			2.60		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE57 Sheet 1 of 1		



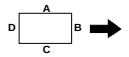
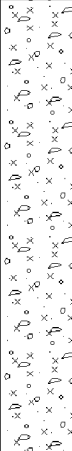
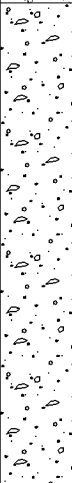
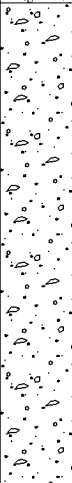
Logged NK Checked AP	Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.4m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m		Ground Level Coordinates National Grid Chainage
Samples and Tests			Strata		
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend
0.50	ES 0	Taken by JC	1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)	(1.00)	
1.50	ES 1		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of orange medium sand. (VO = 0,0)	1.00	
2.50	ES 2			(1.90)	
3.50	ES 3		3 Brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	2.90	
4.50	ES 4			(2.50)	
Depth	Type & No.	Records Date	Stratum continues to 5.40 m		
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Windy,cloudy
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.481301/2015 08:41:13			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE58 Sheet 1 of 2

Logged NK Checked AP	Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.4m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m A D B C ➔	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
			3 Brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0) EXPLOATORY HOLE ENDS AT 5.40 m	5.40		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Windy,cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4813/01/2015 08:41:14 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE58 Sheet 2 of 2		

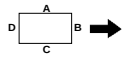
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Logged NK Checked AP	Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.2m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m		Ground Level Coordinates National Grid Chainage
Samples and Tests			Strata		
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend
0.50	ES 0	Taken by JC 5/11/14	1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)	(1.10)	
1.50	ES 1		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)	1.10	
2.50	ES 2			(3.10)	
3.50	ES 3				
			EXPLORATORY HOLE ENDS AT 4.20 m	4.20	
Depth	Type & No.	Records Date			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy, windy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.481301/2015 08:48:06			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE61 Sheet 1 of 1	

Trial Pit Log

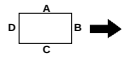
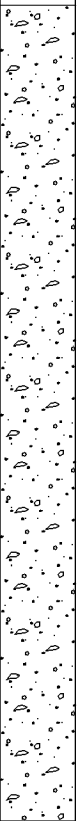
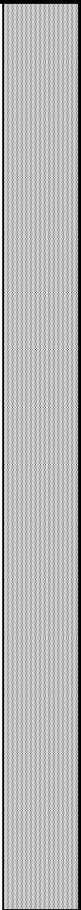
Logged NK Checked AP	Start 13/11/2014 End 13/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.2m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m 	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 0	Taken by JC 5/11/14	1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to coarse of sandstone. Occasional rootlets. (VO = 0,0)	(1.10)		
1.50	ES 1		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)	1.10 (1.50)		
2.50	ES 2			2.60		
3.50	ES 3		3 Brown slightly silty gravelly, medium to coarse SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(1.60)		
			EXPLORATORY HOLE ENDS AT 4.20 m	4.20		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE62 Sheet 1 of 1	

Trial Pit Log

Logged NK Checked AP	Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.1m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m 		Ground Level Coordinates National Grid Chainage	-	-	-
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine to medium. Gravel is subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)		(0.90)			
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is medium to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)		0.90			
2.50	ES 3				(3.20)			
3.50	ES 4							
			EXPLORATORY HOLE ENDS AT 4.10 m 4.10 m Bedrock		4.10			
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy			
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE63 Sheet 1 of 1			

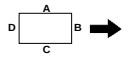
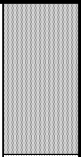
Logged NK Checked AP		Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.0m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m		A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata						
Depth	Type & No.	Date Records	Description				Depth, Level (Thickness)	Legend	Backfill/ Instrument
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)				(0.80)		
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded, occasionally tabular, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)				0.80		
2.50	ES 3						(2.20)		
			EXPLORATORY HOLE ENDS AT 3.00 m				3.00		
Depth	Type & No.	Records Date							
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)				Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 09:08:36			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited				Trial Pit NSE64 Sheet 1 of 1		

Trial Pit Log

Logged AW Checked AP		Start 11/11/2014 End 11/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.0m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0)	(0.30)			
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Cobbles are angular to subangular of sandstone. Gravel is subangular to subrounded of sandstone. (VO = 0,0)	0.30			
2.50	ES 3			(2.70)			
			3.00 m Sandstone bedrock. EXPLORATORY HOLE ENDS AT 3.00 m	3.00			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Dry,windy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE65 Sheet 1 of 1		

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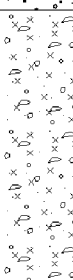
Trial Pit Log

Logged AW Checked AP		Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 0.5m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots.	0.20			
			2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content of sandstone. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0.0) 0.50 m Bedrock.	(0.30) 0.50			
			EXPLORATORY HOLE ENDS AT 0.50 m				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain, heavy, light		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE67 Sheet 1 of 1		

Trial Pit Log

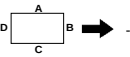
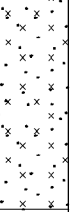
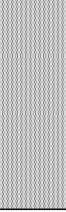
Logged JC Checked AP		Start 03/11/2014 End 03/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.90m Terminated as no progress through cobbles.	Dimensions and Orientation Width 1.50 m Length 4.00 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 Brown silty locally silty gravelly, fine to coarse SAND with low cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subangular of sandstone. (VO = 0,0)	(0.90)		
			2 Soft to firm light brown sandy gravelly SILT with low to medium cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	0.90 (1.00)		
			EXPLORATORY HOLE ENDS AT 1.90 m	1.90		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy,sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:11:59			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE69 Sheet 1 of 1		

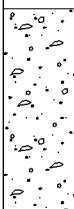
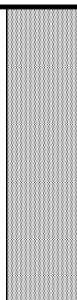
Trial Pit Log

Logged JC Checked AP	Start 03/11/2014 End 03/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.90m Terminated as no progress through cobbles.	Dimensions and Orientation Width 1.80 m Length 4.10 m A D B C ➔	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Brown silty locally silty gravelly, fine to coarse SAND with low cobble content. Gravel is angular to subrounded. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	(1.00)		
1.50	ES 2		2 Soft to very soft light brown sandy gravelly SILT with low to medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subrounded of sandstone. (VO = 0,0)	(0.90)		
			EXPLORATORY HOLE ENDS AT 1.90 m	1.90		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy,raining	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4808/01/2015 16:00:25 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE70 Sheet 1 of 1	

Logged AW Checked AP		Start 06/11/2014 End 06/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.2m Unable to progress beyond 1.20m.		Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D ➡ -			Ground Level 0.00 mOD Coordinates E 0.00 National Grid - Chainage		
Samples and Tests			Strata							
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.50	ES 1		1 Brown silty fine to coarse SAND with frequent roots. (VO = 0,0)			(0.30)				
			2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is angular to subangular, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)			0.30 -0.30 (0.90)				
			EXPLORATORY HOLE ENDS AT 1.20 m			1.20 -1.20				
Depth	Type & No.	Records Date								
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Rain - intermittent				
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:12:02			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE71 Sheet 1 of 1				

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Logged AW Checked AP	Start 05/11/2014 End 05/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 0.7m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 		Ground Level - Coordinates - National Grid - Chainage -
Samples and Tests			Strata		
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend Backfill/ Instrument
0.50	ES 1		1 Brown silty, fine to coarse SAND with frequent roots and medium cobble content. Cobbles are subrounded of sandstone. (VO = 0,0) EXPLORATORY HOLE ENDS AT 0.70 m 0.70 m Possible bedrock.	(0.70) 0.70	 
Depth	Type & No.	Records Date			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Dry
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 09:15:44 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE73 Sheet 1 of 1

Logged AW Checked AP	Start 06/11/2014 End 06/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.0m Unable to progress beyond 1.00m.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D ➔	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots.	(0.30)		
			2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	(0.70)		
			EXPLORATORY HOLE ENDS AT 1.00 m	1.00		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Overcast, wet
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:12:11 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE82 Sheet 1 of 1

Trial Pit Log

Logged JC Checked AP		Start 03/11/2014 End 03/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.90m Terminated as no progress through cobbles.	Dimensions and Orientation Width 1.20 m Length 3.90 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 Brown silty locally silty gravelly, fine to coarse SAND with low cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	(0.90)		
1.50	ES 2		2 Soft to firm light brown sandy gravelly SILT with low to medium cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	0.90		
2.50	ES 3			(2.00)		
			EXPLORATORY HOLE ENDS AT 2.90 m	2.90		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy,raining		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE83 Sheet 1 of 1		

Trial Pit Log

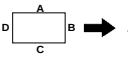
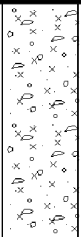
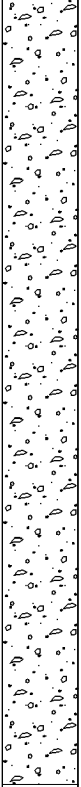
Logged JC Checked AP		Start 03/11/2014 End 03/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.30m Terminated as no progress through cobbles.	Dimensions and Orientation Width 1.90 m Length 3.80 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 Brown silty locally silty gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	(0.70)		
1.50	ES 2		2 Soft to firm light brown gravelly SILT with medium cobble content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	0.70 (1.60)		
			EXPLORATORY HOLE ENDS AT 2.30 m	2.30		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:12:13			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE84 Sheet 1 of 1		

Trial Pit Log



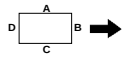
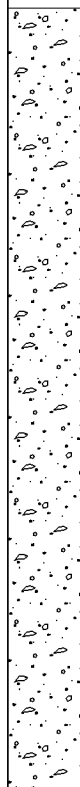
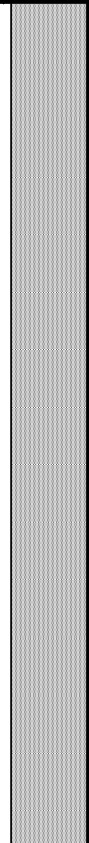
Logged JC Checked AP		Start 31/10/2014 End 31/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.10m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 3.50 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Stiff brown sandy slightly gravelly SILT with low cobble content. Gravel is subangular to subrounded, fine to coarse consisting of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)		(1.00)			
1.50	ES 2		2 Brown silty locally silty gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)		1.00			
2.50	ES 3				(2.10)			
			EXPLORATORY HOLE ENDS AT 3.10 m		3.10			
			3.10 m Bedrock					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4908/01/2015 16:00:32 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE85 Sheet 1 of 1		

Trial Pit Log

Logged JC Checked AP		Start 31/10/2014 End 31/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.40m Unable to progress through cobbles.	Dimensions and Orientation Width 1.60 m Length 3.80 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 Soft to firm light brown sandy slightly gravelly SILT. Gravel is angular to subrounded, fine to coarse of sandstone. Sand is fine to coarse. (VO = 0,0)	(0.80)		
1.50	ES 2		2 Brown silty SAND and GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	0.80		
2.50	ES 3			(2.60)		
			EXPLORATORY HOLE ENDS AT 3.40 m	3.40		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE86 Sheet 1 of 1		

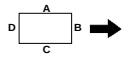
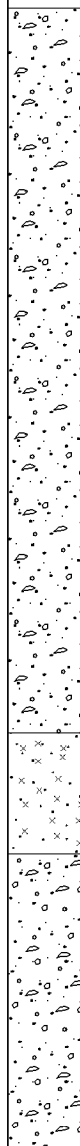
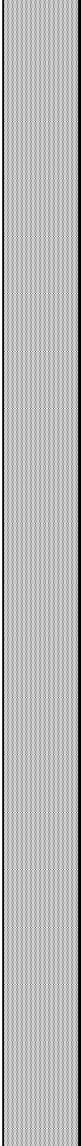
[illegible]

Trial Pit Log

Logged AW Checked AP		Start 11/11/2014 End 11/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.8m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0)	0.20			
1.50	ES 2		2 Orangish brown (becoming brown from 0.60m) slightly silty gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(2.60)			
2.50	ES 3						
			EXPLORATORY HOLE ENDS AT 2.80 m 2.80 m Sandstone bedrock.	2.80			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Shoring None Weather Windy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE88 Sheet 1 of 1		

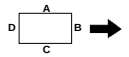
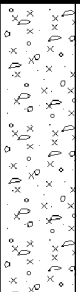
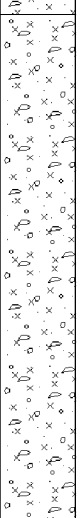
Logged NK Checked AP	Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.4m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m		A B C D ➔		Ground Level Coordinates National Grid Chainage
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument	
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)	(0.90)			
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)	0.90 (1.10)			
2.50	ES 3		3 Brown slightly silty gravelly, medium to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. (VO = 0,0)	2.00 (1.40)			
			EXPLORATORY HOLE ENDS AT 3.40 m	3.40			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) 1 3.30 Seepage from C side. Pooling at base, few cms.			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4813/01/2015 08:56:14			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE89 Sheet 1 of 1	

Trial Pit Log

Logged AW Checked AP		Start 14/11/2014 End 14/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated due to collapse.	Dimensions and Orientation Width 1.30 m Length 6.00 m 		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0)	0.20			
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with occasional subangular to subrounded cobbles of sandstone. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(2.40)			
2.50	ES 3		3 Grey sandy SILT. Sand is fine to medium. (VO = 0,0)	2.60 (0.40)			
3.50	ES 4		4 Brown slightly silty sandy subangular to subrounded, fine to coarse GRAVEL of sandstone with high cobble content. Cobbles are subangular to subrounded of sandstone. Sand is fine to coarse. (VO = 0,0)	3.00 (1.00)			
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Major collapse on side A. Shoring None Weather Dry, sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE9 Sheet 1 of 1		

Logged NK Checked AP	Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.1m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/Instrument
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)	(1.30)		
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone some tabular. Occasional gravel sized po ckets of orange and grey medium sand. (VO = 0,0)	1.30		
2.50	ES 3			(2.80)		
			EXPLORATORY HOLE ENDS AT 4.10 m	4.10		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4813/01/2015 08:51:56			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE90 Sheet 1 of 1	

Trial Pit Log

Logged NK Checked AP	Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.4m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m 		Ground Level Coordinates National Grid Chainage
Samples and Tests			Strata		
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)	(1.00)	
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. (VO = 0,0)	1.00 (1.70)	
2.50	ES 3				
3.50	ES 4		3 Brown gravelly, medium to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. (VO = 0,0)	2.70 (1.70)	
			EXPLORATORY HOLE ENDS AT 4.40 m	4.40	
Depth	Type & No.	Records Date			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSE91 Sheet 1 of 1

Logged NK Checked AP	Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.2m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m A B C D B →	Ground Level Coordinates National Grid Chainage	- - -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
0.50	ES 1		1 Light brown slightly sandy gravelly SILT with medium cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of orange and grey medium sand. Occasional rootlets. (VO = 0,0)	(1.20)		
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. (VO = 0,0)	1.20		
2.50	ES 3			(2.00)		
			EXPLORATORY HOLE ENDS AT 3.20 m	3.20		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.481301/2015 08:52:01			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE94 Sheet 1 of 1		

Logged NK Checked AP		Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.3m Terminated on bedrock.		Dimensions and Orientation Width 1.00 m Length 4.00 m A D B C ➔		Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata						
Depth	Type & No.	Date Records	Description				Depth, Level (Thickness)	Legend	Backfill/ Instrument
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT with low cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of orange medium sand. Rare rootlets. (VO = 0,0)				(1.00)		
1.50	ES 2		2 Brown silty gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. (VO = 0,0)				1.00		
2.50	ES 3						(2.30)		
			EXPLORATORY HOLE ENDS AT 3.30 m				3.30		
Depth	Type & No.	Records Date							
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)				Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426 4813/01/2015 08:52:03			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited				Trial Pit NSE95 Sheet 1 of 1		

[illegible]

Logged AW Checked AP	Start 12/11/2014 End 12/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.3m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0)	0.20		
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	(2.10)		
			EXPLORATORY HOLE ENDS AT 2.30 m	2.30		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Rain,light showers
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4813/01/2015 08:56:17			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSE97 Sheet 1 of 1

Trial Pit Log

[illegible]

Logged JC Checked AP	Start 31/10/2014 End 31/10/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.60m Unable to progress through cobbles.	Dimensions and Orientation Width 1.90 m Length 4.20 m A B C D B → -	Ground Level Coordinates National Grid Chainage	- - -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Very soft to soft orangish brown sandy gravelly SILT with occasional cobbles. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subrounded of sandstone. (VO = 0,0)	(0.96)		
1.50	ES 2		2 Brown silty locally silty SAND and GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone. (VO = 0,0)	0.96 (1.64)		
2.50	ES 3			2.60		
			EXPLORATORY HOLE ENDS AT 2.60 m			
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4809/01/2015 15:12:18 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSE99 Sheet 1 of 1		

Appendix C. Laboratory Analytical Results – Ground Investigation



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Jack Lowrie

Post Certification Report

Date:	15/09/2015	Location:	Phase 53
Customer:	H_ATKINS_LDC	No. Of Samples Received:	235
Your Reference:	Site Wide Trial Pitting	Samples Scheduled:	235

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

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



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10298722	NSE62		1.50	27/10/2014
Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10314363	NSE009		0.30	28/10/2014
Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10330705	NSE015		0.50	29/10/2014
10330710	NSE016		0.60	29/10/2014
10330724	NSE017		0.70	29/10/2014
10330728	NSE018		0.50	29/10/2014
10330732	NSE018		1.50	29/10/2014
10330739	NSE019		0.50	29/10/2014
10330743	NSE019		1.50	29/10/2014
10330747	NSE020		0.50	29/10/2014
10330751	NSE020		1.50	29/10/2014
10330683	NSE114		0.50	29/10/2014
10330678	NSE115		0.50	29/10/2014
10330656	NSE116		0.50	29/10/2014
10330652	NSE120		0.50	29/10/2014
10330664	NSE121		0.50	29/10/2014
10330669	NSE122		0.50	29/10/2014
10330719	NSE126		0.50	29/10/2014
10330632	NSE133		0.50	29/10/2014
10330649	NSE137		0.50	29/10/2014
10330924	NSE138		0.50	29/10/2014
10330928	NSE142		0.50	29/10/2014
Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10333259	NSE113		0.50	06/11/2014
10333265	NSE113		1.50	06/11/2014
10333276	NSE113		2.50	06/11/2014
10333305	NSE116		1.50	06/11/2014
10333309	NSE116		2.50	06/11/2014
10333315	NSE120		1.50	06/11/2014
10333321	NSE120		2.50	06/11/2014
10333326	NSE138		1.50	06/11/2014
10333341	NSE138		2.50	06/11/2014
10333105	NSE32		0.50	06/11/2014
10333094	NSE33		0.50	06/11/2014
10333206	NSE37		0.50	06/11/2014
10333271	NSE38		0.50	06/11/2014
10333151	NSE46		0.50	06/11/2014
10333100	NSE51		0.50	06/11/2014
10333078	NSE72		0.50	06/11/2014
10333368	NSE73		0.50	06/11/2014
10333345	NSE85		1.50	06/11/2014
10333351	NSE85		2.50	06/11/2014
10333357	NSE86		1.50	06/11/2014
10333362	NSE86		2.50	06/11/2014
10333293	NSE98		1.50	06/11/2014
10333299	NSE98		2.50	06/11/2014
10333282	NSE99		1.50	06/11/2014
10333288	NSE99		2.50	06/11/2014
Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10333656	NSE021		0.50	03/10/2014
10333661	NSE021		1.50	03/10/2014
10333953	NSE022		0.50	03/10/2014
10333958	NSE022		1.50	03/10/2014
10333963	NSE022		2.50	03/10/2014
10333682	NSE023		0.50	03/10/2014



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10333686	NSE023		1.50	03/10/2014
10333691	NSE023		2.50	03/10/2014
10333624	NSE035		0.50	30/10/2014
10333629	NSE036		0.50	30/10/2014
10333652	NSE047		0.50	30/10/2014
10333633	NSE048		0.50	30/10/2014
10333619	NSE049		0.50	30/10/2014
10333615	NSE050		0.50	30/10/2014
10333611	NSE069		0.50	30/10/2014
10333638	NSE070		0.50	30/10/2014
10333642	NSE071		0.50	30/10/2014
10333606	NSE083		0.50	30/10/2014
10333977	NSE084		0.50	30/10/2014
10333876	NSE085		0.50	30/10/2014
10333936	NSE086		0.50	30/10/2014
10333587	NSE098		0.50	30/10/2014
10333648	NSE099		0.50	30/10/2014
10333815	NSE100		0.50	30/10/2014
10333597	NSE101		0.50	30/10/2014
10333759	NSE112		0.50	30/10/2014
10333701	NSE113		0.50	30/10/2014

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10337519	NSE025		0.50	04/11/2014
10337512	NSE026		0.50	04/11/2014
10337507	NSE027		0.50	04/11/2014
10337431	NSE028		0.50	04/11/2014
10337482	NSE029		0.50	04/11/2014
10337491	NSE030		0.50	04/11/2014
10337496	NSE031		0.50	04/11/2014
10337501	NSE052		0.50	04/11/2014
10337472	NSE054		0.50	04/11/2014
10337476	NSE055		0.50	04/11/2014
10337462	NSE056		0.50	04/11/2014
10337467	NSE057		0.50	04/11/2014
10337452	NSE215		0.50	04/11/2014
10337448	NSE216		0.50	04/11/2014
10337444	NSE217		0.50	04/11/2014
10337440	NSE218		0.50	04/11/2014
10337435	NSE219		0.50	04/11/2014
10337528	NSE220		0.50	04/11/2014

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10337914	NSE133		1.50	05/11/2014
10337944	NSE135		0.50	05/11/2014
10337948	NSE135		1.50	05/11/2014
10337852	NSE135		2.50	05/11/2014
10337856	NSE135		3.50	05/11/2014
10337846	NSE140		0.50	05/11/2014
10337900	NSE140		1.50	05/11/2014
10337923	NSE140		2.50	05/11/2014
10337927	NSE140		3.50	05/11/2014
10337932	NSE141		0.50	05/11/2014
10337936	NSE141		1.50	05/11/2014
10337940	NSE141		2.50	05/11/2014
10337910	NSE142		1.50	05/11/2014
10337919	NSE150		1.50	05/11/2014

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10334543	NSE 100		1.50	03/11/2014
10334571	NSE 101		1.50	03/11/2014
10334579	NSE 101		2.50	03/11/2014



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10334527	NSE 112		0.50	03/11/2014
10334537	NSE 112		1.50	03/11/2014
10334591	NSE 50		1.50	03/11/2014
10334587	NSE 69		1.50	03/11/2014
10334550	NSE 70		1.50	03/11/2014
10334555	NSE 83		1.50	03/11/2014
10334561	NSE 83		2.50	03/11/2014
10334583	NSE 84		1.50	03/11/2014

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10357612	NSE125		1.50	07/11/2014
10357618	NSE134		1.50	07/11/2014

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10357865	NSE036		1.50	06/11/2014
10357860	NSE037		1.50	06/11/2014
10357846	NSE038		1.50	06/11/2014
10357834	NSE046		1.50	06/11/2014
10357872	NSE049		1.50	06/11/2014
10357850	NSE072		1.50	06/11/2014
10357876	NSE087		0.50	06/11/2014
10357881	NSE088		0.50	06/11/2014
10357885	NSE089		0.50	06/11/2014
10357842	NSE094		0.50	06/11/2014
10357838	NSE095		0.50	06/11/2014

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10384065	NSE031		1.50	12/11/2014
10384071	NSE031		2.50	12/11/2014
10384061	NSE032		1.50	12/11/2014
10384039	NSE051		1.50	12/11/2014
10383977	NSE055		1.50	12/11/2014
10383982	NSE055		2.50	12/11/2014
10383987	NSE055		3.50	12/11/2014
10383991	NSE055		4.50	12/11/2014
10383995	NSE063		1.50	12/11/2014
10384004	NSE063		2.50	12/11/2014
10384008	NSE063		3.50	12/11/2014
10383969	NSE064		1.50	12/11/2014
10383973	NSE064		2.50	12/11/2014
10384080	NSE066		1.50	12/11/2014
10383961	NSE089		1.50	12/11/2014
10383965	NSE089		2.50	12/11/2014
10384120	NSE090		1.50	12/11/2014
10384128	NSE090		2.50	12/11/2014
10383957	NSE090		3.50	12/11/2014
10384012	NSE091		1.50	12/11/2014
10384018	NSE091		2.50	12/11/2014
10384023	NSE091		3.50	12/11/2014
10384104	NSE094		1.50	12/11/2014
10384112	NSE094		2.50	12/11/2014
10383952	NSE095		1.50	12/11/2014
10383999	NSE095		2.50	12/11/2014
10384028	NSE097		0.50	12/11/2014
10384033	NSE097		1.50	12/11/2014
10384051	NSE118		0.50	12/11/2014
10384088	NSE118		1.50	12/11/2014
10384096	NSE118		2.50	12/11/2014

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10381641	NSE065		1.50	11/11/2014
10381646	NSE065		2.50	11/11/2014
10381620	NSE088		0.50	11/11/2014



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10381630	NSE088		1.50	11/11/2014
10381636	NSE088		2.50	11/11/2014
10381566	NSE096		0.50	11/11/2014
10381587	NSE096		1.50	11/11/2014
10381552	NSE117		0.50	11/11/2014
10381556	NSE117		1.50	11/11/2014
10381562	NSE117		2.50	11/11/2014

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10394160	NSE009		0.50	14/11/2014
10393970	NSE009		1.50	14/11/2014
10393975	NSE009		2.50	14/11/2014
10393979	NSE009		3.50	14/11/2014
10394029	NSE215		1.50	14/11/2014
10394034	NSE215		2.50	14/11/2014
10394038	NSE216		1.50	14/11/2014
10394043	NSE216		2.50	14/11/2014

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10393264	NSE017		1.50	14/11/2014
10393275	NSE017		2.50	14/11/2014
10393356	NSE025		1.50	14/11/2014
10393362	NSE025		2.50	14/11/2014
10393391	NSE026		1.50	14/11/2014
10393397	NSE026		2.50	14/11/2014
10393401	NSE026		3.50	14/11/2014
10393406	NSE026		4.40	14/11/2014
10393412	NSE026		4.90	14/11/2014
10393417	NSE027		1.50	14/11/2014
10393424	NSE027		2.50	14/11/2014
10393434	NSE027		3.50	14/11/2014
10393446	NSE027		4.50	14/11/2014
10393451	NSE028		1.50	14/11/2014
10393458	NSE028		2.50	14/11/2014
10393463	NSE028		3.50	14/11/2014
10393280	NSE029		1.50	14/11/2014
10393284	NSE029		2.50	14/11/2014
10393291	NSE029		3.50	14/11/2014
10393377	NSE030		1.50	14/11/2014
10393438	NSE030		2.50	14/11/2014
10393468	NSE030		3.50	14/11/2014
10393212	NSE053		0.50	14/11/2014
10393270	NSE053		1.50	14/11/2014
10393323	NSE053		2.50	14/11/2014
10393475	NSE054		1.50	14/11/2014
10393480	NSE054		2.50	14/11/2014
10393484	NSE054		3.50	14/11/2014
10393308	NSE056		1.50	14/11/2014
10393313	NSE056		2.50	14/11/2014
10393317	NSE056		3.50	14/11/2014
10393327	NSE056		4.50	14/11/2014
10393331	NSE057		1.50	14/11/2014
10393336	NSE057		2.50	14/11/2014
10393368	NSE058		1.50	14/11/2014
10393373	NSE058		2.50	14/11/2014
10393382	NSE058		3.50	14/11/2014
10393386	NSE058		4.50	14/11/2014
10393340	NSE061		1.50	14/11/2014
10393347	NSE061		2.50	14/11/2014
10393352	NSE061		3.50	14/11/2014
10393295	NSE062		1.50	14/11/2014



Customer : H_ATKINS_LDC

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Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10393300	NSE062		2.50	14/11/2014
10393304	NSE062		3.50	14/11/2014
10393251	NSE218		1.50	14/11/2014
10393255	NSE218		2.50	14/11/2014
10393259	NSE218		3.50	14/11/2014
10393232	NSE219		1.50	14/11/2014
10393242	NSE219		2.50	14/11/2014
10393247	NSE219		3.50	14/11/2014
10393218	NSE220		1.50	14/11/2014
10393222	NSE220		2.50	14/11/2014
10393227	NSE220		3.50	14/11/2014

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10487241	NSE110		0.50	28/11/2014
10487255	NSE119		0.50	28/11/2014
10487261	NSE119		1.50	28/11/2014

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



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	10330649	10330632	10330719	10330669	10330664	10330652	10330656	10330678	10330683	10298722	10330724	10330710	10330705	10314363		
	All	NDPs: 0 Tests: 53	NSE009		0.30	60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
Asbestos fibres in Soil*						250g Amber Jar																
Asbestos ID in Solid Samples						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
Asbestos Quantification - Full						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
EPH CWG (Aliphatic) GC (S)						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
EPH CWG (Aromatic) GC (S)						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
GRO by GC-FID (S)						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
Metals in solid samples by OES						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
PAH by GCMS						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
pH						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
Sample description						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
Total Organic Carbon						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																
TPH CWG GC (S)						60g VOC (AL E215) 400g Tub (AL E214) 60g VOC (AL E215) 250g Amber Jar																



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	10330928	10330924	10333078	10333100	10333151	10333206	10333094	10333105	10330751	10330747	10330743	10330739	10330732	10330728	10330724	
							NSE142	NSE138	NSE72	NSE51	NSE46	NSE37	NSE33	NSE32	NSE20	NSE20	NSE19	NSE19	NSE18	NSE18	NSE017	
							0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.50	1.50	0.50	0.50	1.50	0.50	0.70	
							60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 53												X								
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 40															X			X		
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235												X								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235																				
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235																				
Metals in solid samples by OES	All	NDPs: 0 Tests: 235																				
PAH by GCMS	All	NDPs: 0 Tests: 235																				
pH	All	NDPs: 0 Tests: 235																				
Sample description	All	NDPs: 0 Tests: 234																				
Total Organic Carbon	All	NDPs: 0 Tests: 31																				
TPH CWG GC (S)	All	NDPs: 0 Tests: 235																				



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	10333326		NSE138				1.50		400g Tub (AL E214)	
	10333321		NSE120				2.50		250g Amber Jar	
	10333315		NSE120				1.50		400g Tub (AL E214)	
	10333309		NSE116				2.50		250g Amber Jar	
X Test N No Determination Possible	10333305		NSE116				1.50		400g Tub (AL E214)	
	10333276		NSE113				2.50		250g Amber Jar	
	10333265		NSE113				1.50		400g Tub (AL E214)	
	10333259		NSE113				0.50		250g Amber Jar	
	10333288		NSE99				2.50		250g Amber Jar	
	10333282		NSE99				1.50		400g Tub (AL E214)	
	10333299		NSE98				2.50		250g Amber Jar	
	10333293		NSE98				1.50		400g Tub (AL E214)	
	10333271		NSE38				0.50		250g Amber Jar	
	10333206		NSE37				0.50		400g Tub (AL E214)	
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 53	X	X						
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235		X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235		X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 235		X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 235		X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 234		X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 235		X	X	X	X	X	X	X



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	10333341	10333326	10333597	10333587	10333362	10333357	10333351	10333345	10333606	10333368	10333611	10333615	10333619	10333624	
							NSE138	NSE138	NSE101	NSE098	NSE86	NSE86	NSE85	NSE85	NSE083	NSE73	NSE069	NSE050	NSE049	NSE035	
							2.50	1.50	0.50	0.50	2.50	1.50	2.50	1.50	0.50	0.50	0.50	0.50	0.50	0.50	
							60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E215) 400g Tub (AL E214) 250g Amber Jar	
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 53																			
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4																			
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235																			
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235																			
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235																			
Metals in solid samples by OES	All	NDPs: 0 Tests: 235																			
PAH by GCMS	All	NDPs: 0 Tests: 235																			
pH	All	NDPs: 0 Tests: 235																			
Sample description	All	NDPs: 0 Tests: 234																			
Total Organic Carbon	All	NDPs: 0 Tests: 31																			
TPH CWG GC (S)	All	NDPs: 0 Tests: 235																			

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container
	10333701		NSE113		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333759		NSE112		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333815		NSE100		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333648		NSE099		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333642		NSE071		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333638		NSE070		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333633		NSE048		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333652		NSE047		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333629		NSE036		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333691		NSE023		2.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333686		NSE023		1.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333682		NSE023		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333661		NSE021		1.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
	10333656		NSE021		0.50	60q VOC (AL.E215) 400q Tub (AL.E214) 250q Amber Jar
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 53	X			
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235		X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 235	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 235	X	X	X	X
pH	All	NDPs: 0 Tests: 235	X	X	X	X
Sample description	All	NDPs: 0 Tests: 234	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 31				
TPH CWG GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	10334537	10334527	10334571	10334543	10333815	10333936	10333876	10333977	10334561	10334555	10334550	10333963	10333958	10333953			
							NSE 112	NSE 112															
							1.50	0.50	1.50	1.50	0.50	0.50	0.50	2.50	1.50	2.50	1.50	0.50					
							60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar					
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 53												X						X			
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 40														X							
Asbestos Quantification - Full	All	NDPs: 0 Tests: 4															X						
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235																					
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235																					
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235											X										
Metals in solid samples by OES	All	NDPs: 0 Tests: 235																					
PAH by GCMS	All	NDPs: 0 Tests: 235																					
pH	All	NDPs: 0 Tests: 235																					
Sample description	All	NDPs: 0 Tests: 234																					
Total Organic Carbon	All	NDPs: 0 Tests: 31																					
TPH CWG GC (S)	All	NDPs: 0 Tests: 235																					



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container													
							10337435	NSE219	0.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10337440	NSE218	0.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10337444	NSE217	0.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10337448	NSE216	0.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10337452	NSE215	0.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10334579	NSE 101	2.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10334571	NSE 101	1.50	60g VOC (AL E215) 60g VOC (AL E215) 400g Tub (AL E214)									
							10334583	NSE 84	1.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10334587	NSE 89	1.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10337467	NSE057	0.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10337462	NSE056	0.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10337476	NSE055	0.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10337472	NSE054	0.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
							10334591	NSE 50	1.50	60g VOC (AL E215) 250g Amber Jar									
							10337431	NSE028	0.50	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar									
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 53																	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 40																	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235																	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235																	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235																	
Metals in solid samples by OES	All	NDPs: 0 Tests: 235																	
PAH by GCMS	All	NDPs: 0 Tests: 235																	
pH	All	NDPs: 0 Tests: 235																	
Sample description	All	NDPs: 0 Tests: 234																	
Total Organic Carbon	All	NDPs: 0 Tests: 31																	
TPH CWG GC (S)	All	NDPs: 0 Tests: 235																	



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	10337528	10337910	10337900	10337846	10337856	10337852	10337476	10337501	10337496	10337491	10337482	10337507	10337512	10337519
							NSE220	NSE142	NSE140	NSE140	NSE135	NSE135	NSE055	NSE052	NSE031	NSE030	NSE029	NSE027	NSE026	NSE025
							0.50	1.50	1.50	0.50	3.50	2.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
							60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	400g Tub (AL E214) 250g Amber Jar	400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 53					X						X	X	X	X	X	X	X	X
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 40								X										
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235				X				X		X				X		X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235				X				X		X				X		X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235								X		X	X	X	X	X		X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 235				X				X		X			X	X		X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 235				X				X		X			X	X		X	X	X
pH	All	NDPs: 0 Tests: 235					X			X		X	X	X	X	X		X	X	X
Sample description	All	NDPs: 0 Tests: 234				X				X		X			X	X		X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 31																		
TPH CWG GC (S)	All	NDPs: 0 Tests: 235				X				X		X			X	X		X	X	X



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	10337919		NSE150				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10337910		NSE142				1.50		250g Amber Jar 60g VOC (AL E215)	
	10337940		NSE141				2.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10337936		NSE141				1.50		250g Amber Jar 60g VOC (AL E215)	
X Test N No Determination Possible	10337932		NSE141				0.50		250g Amber Jar 60g VOC (AL E215)	
	10337927		NSE140				3.50		250g Amber Jar 60g VOC (AL E215)	
	10337923		NSE140				2.50		250g Amber Jar 60g VOC (AL E215)	
	10337948		NSE135				1.50		250g Amber Jar 60g VOC (AL E215)	
	10337944		NSE135				0.50		250g Amber Jar 60g VOC (AL E215)	
	10337618		NSE134				1.50		250g Amber Jar 60g VOC (AL E215)	
	10337914		NSE133				1.50		250g Amber Jar 60g VOC (AL E215)	
	10337612		NSE125				1.50		250g Amber Jar 60g VOC (AL E215)	
	10337838		NSE095				0.50		250g Amber Jar 60g VOC (AL E215)	
	10337834		NSE046				1.50		250g Amber Jar 60g VOC (AL E215)	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 40								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235								
Metals in solid samples by OES	All	NDPs: 0 Tests: 235								
PAH by GCMS	All	NDPs: 0 Tests: 235								
pH	All	NDPs: 0 Tests: 235								
Sample description	All	NDPs: 0 Tests: 234								
Total Organic Carbon	All	NDPs: 0 Tests: 31								
TPH CWG GC (S)	All	NDPs: 0 Tests: 235								



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	10381562	10381566	10381552	10381587	10381566	10357842	10357885	10357881	10357876	10357850	10357872	10357846	10357860	10357865
							NSE117	NSE117	NSE117	NSE096	NSE096	NSE094	NSE089	NSE088	NSE087	NSE072	NSE049	NSE038	NSE037	NSE036
							2.50	1.50	0.50	1.50	0.50	0.50	0.50	0.50	0.50	1.50	1.50	1.50	1.50	1.50
							60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 40												X						
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235	X											X	X					
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235	X											X	X					
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235												X						
Metals in solid samples by OES	All	NDPs: 0 Tests: 235	X											X	X					
PAH by GCMS	All	NDPs: 0 Tests: 235	X											X	X					
pH	All	NDPs: 0 Tests: 235												X						
Sample description	All	NDPs: 0 Tests: 234	X											X						
Total Organic Carbon	All	NDPs: 0 Tests: 31	X												X					
TPH CWG GC (S)	All	NDPs: 0 Tests: 235	X											X						



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	10381587		NSE096				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383952		NSE095				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383957		NSE090				3.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383965		NSE089				2.50		60g VOC (AL E215) 400g Tub (AL E214)	
X Test N No Determination Possible	10383961		NSE089				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10381636		NSE088				2.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10381630		NSE088				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10381620		NSE088				0.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10381646		NSE085				2.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10381641		NSE085				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383973		NSE064				2.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383969		NSE064				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383982		NSE055				2.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383977		NSE055				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 40								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235		X		X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 234	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 31	X							X
TPH CWG GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	10384051		NSE118				0.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10384033		NSE097				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10384028		NSE097				0.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383999		NSE096				2.50		60g VOC (AL E215) 400g Tub (AL E214)	
X Test N No Determination Possible	10384023		NSE091				3.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10384018		NSE091				2.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10384012		NSE091				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10384008		NSE063				3.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10384004		NSE063				2.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383995		NSE063				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383991		NSE055				4.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383987		NSE055				3.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10383982		NSE055				2.50		60g VOC (AL E215) 400g Tub (AL E214)	
	10384039		NSE051				1.50		60g VOC (AL E215) 400g Tub (AL E214)	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 40								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235								
Metals in solid samples by OES	All	NDPs: 0 Tests: 235								
PAH by GCMS	All	NDPs: 0 Tests: 235								
pH	All	NDPs: 0 Tests: 235								
Sample description	All	NDPs: 0 Tests: 234								
Total Organic Carbon	All	NDPs: 0 Tests: 31								
TPH CWG GC (S)	All	NDPs: 0 Tests: 235								



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	10393227		NSE220				3.50		250g Amber Jar	
	10393222		NSE220				2.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10393218		NSE220				1.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10384096		NSE118				2.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
X Test N No Determination Possible	10384088		NSE118				1.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10384112		NSE094				2.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10384104		NSE094				1.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10384128		NSE090				2.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10384120		NSE090				1.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10384080		NSE066				1.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10393212		NSE033				0.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10384061		NSE032				1.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10384071		NSE031				2.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
	10384065		NSE031				1.50		60g VOC (AL E215) 400g Tub (AL E214) 250g Amber Jar	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 40								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235		X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 235		X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 234	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 31	X							
TPH CWG GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		10393227	10393247	10393242	10393232	10393259	10393255	10393251	10393295	10393270	10393291	10393284	10393280	10393275	10393264		
											60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	
											400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	400g Tub (ALE214)	
											250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	250g Amber Jar	
												60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)	60g VOC (ALE215)
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235									X															X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235									X															X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235																								
Metals in solid samples by OES	All	NDPs: 0 Tests: 235																								
PAH by GCMS	All	NDPs: 0 Tests: 235																								
pH	All	NDPs: 0 Tests: 235																								
Sample description	All	NDPs: 0 Tests: 234																								
Total Organic Carbon	All	NDPs: 0 Tests: 31																								
TPH CWG GC (S)	All	NDPs: 0 Tests: 235																								



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	10393304	10393300	10393295	10393352	10393347	10393340	10393336	10393331	10393327	10393317	10393313	10393308	10393323	10393356			
							NSE062	NSE062						NSE057	NSE056	NSE056	NSE056	NSE053	NSE025				
							3.50	2.50	1.50	3.50	2.50	1.50	2.50	4.50	3.50	2.50	1.50	2.50	1.50				
							60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE215) 60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar			
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235																					
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235																					
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235																					
Metals in solid samples by OES	All	NDPs: 0 Tests: 235																					
PAH by GCMS	All	NDPs: 0 Tests: 235																					
pH	All	NDPs: 0 Tests: 235																					
Sample description	All	NDPs: 0 Tests: 234																					
Total Organic Carbon	All	NDPs: 0 Tests: 31																					
TPH CWG GC (S)	All	NDPs: 0 Tests: 235																					



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	10393386	10393382	10393373	10393368	10393377	10393434	10393424	10393417	10393412	10393406	10393401	10393397	10393391	10393362
						60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	NSE08	NSE08	NSE08	NSE08	NSE030	NSE027	NSE027	NSE027	NSE026	NSE026	NSE026	NSE026	NSE026	NSE025
						400g Tub (ALE214) 250g Amber Jar														
						60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	3.50	3.50	2.50	1.50	1.50	3.50	2.50	1.50	4.90	4.40	3.50	2.50	1.50	2.50
						60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	4.50													
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235		X	X	X		X	X	X		X	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 235		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 234	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 31			X															
TPH CWG GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	10394029	10393484	10393480	10393475	10393468	10393438	10393463	10393458	10393451	10393446	10393434	10393979	10393975	10393970
							NSE215	NSE054	NSE054	NSE054	NSE030	NSE030	NSE028	NSE028	NSE028	NSE027	NSE027	NSE009	NSE009	NSE009
							1.50	3.50	2.50	1.50	3.50	2.50	3.50	2.50	1.50	4.50	3.50	3.50	2.50	1.50
							60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235																		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235																		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235																		
Metals in solid samples by OES	All	NDPs: 0 Tests: 235																		
PAH by GCMS	All	NDPs: 0 Tests: 235																		
pH	All	NDPs: 0 Tests: 235																		
Sample description	All	NDPs: 0 Tests: 234																		
Total Organic Carbon	All	NDPs: 0 Tests: 31																		
TPH CWG GC (S)	All	NDPs: 0 Tests: 235																		



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend	Lab Sample No(s)		10394160	10487241	10487255	10487261	10394034	10394038	10394043
	Customer Sample Reference		NSE09	NSE10	NSE19	NSE19	NSE215	NSE216	NSE216
	AGS Reference								
	Depth (m)		0.50	0.50	0.50	1.50	2.50	1.50	2.50
	Container		250g Amber Jar 400g Tub (AL E214) 60g VOC (AL E215)	250g Amber Jar 400g Tub (AL E214) 60g VOC (AL E215)	250g Amber Jar 400g Tub (AL E214) 60g VOC (AL E215)	250g Amber Jar 400g Tub (AL E214) 60g VOC (AL E215)	250g Amber Jar 400g Tub (AL E214) 60g VOC (AL E215)	250g Amber Jar 400g Tub (AL E214) 60g VOC (AL E215)	250g Amber Jar 400g Tub (AL E214) 60g VOC (AL E215)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 53	X	X	X				
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 235		X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 234	X	X	X	X		X	
Total Organic Carbon	All	NDPs: 0 Tests: 31		X					
TPH CWG GC (S)	All	NDPs: 0 Tests: 235	X	X	X	X	X	X	X

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Client Reference : Site Wide Trial Pitting

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Client Reference : Site Wide Trial Pitting

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Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Client Reference : Site Wide Trial Pitting

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Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend			Customer Sample Ref.	NSE009	NSE009	NSE009	NSE009	NSE009	NSE015
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30	0.50	1.50	2.50	3.50	0.50
M	mCERTS accredited.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.			28/10/2014	14/11/2014	14/11/2014	14/11/2014	14/11/2014	29/10/2014
diss.filt	Dissolved / filtered sample.			04/11/2014	17/11/2014	17/11/2014	17/11/2014	17/11/2014	06/11/2014
tot.unfilt	Total / unfiltered sample.			141104-45	141117-10	141117-10	141117-10	141117-10	141106-109
+	subcontracted test.			10314363	10394160	10393970	10393975	10393979	10330705
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-5&5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM089		121	91	77	99	83	86
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176	<176	<176	<176	<176	<176
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Toluene	<2 µg/kg	TM089		<8	<8	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089		<12	<12	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089		<24	<24	<24	<24	<24	<24
o-Xylene	<3 µg/kg	TM089		<12	<12	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<36	<9	<36	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<96	<24	<96	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	1590
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	<100	<100	<100	659
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	<100	<100	<100	4910
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	7150
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		656	<100	<100	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		1780	<100	<100	<100	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		2440	<100	<100	<100	<100	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		2440	<100	<100	<100	<100	7150

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	NSE029	NSE029	NSE029	NSE029	NSE030	NSE030	
# M aq diss.filt tot.unfilt * **	ISO17025 accredited. mCERTS accredited. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.		0.50 Soil/Solid 04/11/2014 07/11/2014 141107-51 10337482	1.50 Soil/Solid 14/11/2014 17/11/2014 141117-6 10393280	2.50 Soil/Solid 14/11/2014 17/11/2014 141117-6 10393284	3.50 Soil/Solid 14/11/2014 17/11/2014 141117-6 10393291	0.50 Soil/Solid 04/11/2014 07/11/2014 141107-51 10337491	1.50 Soil/Solid 14/11/2014 17/11/2014 141117-6 10393377	
1-5&*%@ Sample deviation (see appendix)									
Component	LOD/Units		Method						
GRO Surrogate % recovery**	%		TM089	93	67	92	66	102	79
GRO TOT (Moisture Corrected)	<44 µg/kg		TM089	@ <176 @ M	@ <176 @ M	@ <176 @ M	@ <176 @ M	@ <176 @ M	@ <176 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	@ M <20 @ M	@ M <20 @ M	@ M <20 @ M	@ M <20 @ M	@ M <20 @ M	@ M <20 @ M	
Benzene	<10 µg/kg	TM089	@ M <40 @ M	@ M <40 @ M	@ M <40 @ M	@ M <40 @ M	@ M <40 @ M	@ M <40 @ M	
Toluene	<2 µg/kg	TM089	@ M <8 @ M	@ M <8 @ M	@ M <8 @ M	@ M <8 @ M	@ M <8 @ M	@ M <8 @ M	
Ethylbenzene	<3 µg/kg	TM089	@ M <12 @ M	@ M <12 @ M	@ M <12 @ M	@ M <12 @ M	@ M <12 @ M	@ M <12 @ M	
m,p-Xylene	<6 µg/kg	TM089	@ M <24 @ M	@ M <24 @ M	@ M <24 @ M	@ M <24 @ M	@ M <24 @ M	@ M <24 @ M	
o-Xylene	<3 µg/kg	TM089	@ M <12 @ M	@ M <12 @ M	@ M <12 @ M	@ M <12 @ M	@ M <12 @ M	@ M <12 @ M	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	@ <9 @	@ <9 @	@ <9 @	@ <9 @	@ <9 @	@ <9 @	
sum of detected BTEX by GC	<24 µg/kg	TM089	@ <24 @	@ <24 @	@ <24 @	@ <24 @	@ <24 @	@ <24 @	
Aliphatics >C5-C6	<10 µg/kg	TM089	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	
Aliphatics >C6-C8	<10 µg/kg	TM089	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	
Aliphatics >C8-C10	<10 µg/kg	TM089	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	
Aliphatics >C10-C12	<10 µg/kg	TM089	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100	
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100	
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100	
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	191	<100	<100	<100	<100	<100	
Aromatics >EC5-EC7	<10 µg/kg	TM089	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	
Aromatics >EC7-EC8	<10 µg/kg	TM089	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	
Aromatics >EC8-EC10	<10 µg/kg	TM089	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	
Aromatics >EC10-EC12	<10 µg/kg	TM089	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	@ <40 @	
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100	
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100	
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100	
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100	
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	245	<100	<100	<100	<100	<100	

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

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Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend			Customer Sample Ref.	NSE064	NSE064	NSE065	NSE065	NSE066	NSE 69
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.50	2.50	1.50	2.50	1.50	1.50
M	mCERTS accredited.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.			12/11/2014	12/11/2014	11/11/2014	11/11/2014	12/11/2014	03/11/2014
diss.filt	Dissolved / filtered sample.			14/11/2014	14/11/2014	14/11/2014	14/11/2014	14/11/2014	07/11/2014
tot.unfilt	Total / unfiltered sample.			141114-121	141114-121	141114-96	141114-96	141114-121	141107-9
+	subcontracted test.			10383969	10383973	10381641	10381646	10384080	10334587
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-5&5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM089		82	88	86	86	78	74
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176	<176	<176	<176	<176	<176
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Toluene	<2 µg/kg	TM089		<8	<8	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089		<12	<12	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089		<24	<24	<24	<24	<24	<24
o-Xylene	<3 µg/kg	TM089		<12	<12	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	<100	<100	<100	<100	1600
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	1600
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	1600

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend			Customer Sample Ref.	NSE087	NSE088	NSE088	NSE088	NSE088	NSE089
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50	0.50	0.50	1.50	2.50	0.50
M	mCERTS accredited.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.			06/11/2014	06/11/2014	11/11/2014	11/11/2014	11/11/2014	06/11/2014
diss.filt	Dissolved / filtered sample.			11/11/2014	11/11/2014	14/11/2014	14/11/2014	14/11/2014	11/11/2014
tot.unfilt	Total / unfiltered sample.			141111-51	141111-51	141114-96	141114-96	141114-96	141111-51
+	subcontracted test.			10357876	10357881	10381620	10381630	10381636	10357885
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-5&5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM089		95	128	75	94	70	116
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176	<176	<176	<176	<176	<176
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Toluene	<2 µg/kg	TM089		<8	<8	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089		<12	<12	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089		<24	<24	<24	<24	<24	<24
o-Xylene	<3 µg/kg	TM089		<12	<12	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<36	<9	<36	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<96	<24	<96	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		899	<100	<100	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		765	<100	<100	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		1870	<100	<100	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		3530	<100	<100	<100	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	<100	<100	<100	<100	1540
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	1540
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		3530	<100	<100	<100	<100	1540



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend			Customer Sample Ref.	NSE089	NSE089	NSE090	NSE090	NSE090	NSE091
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.50	2.50	1.50	2.50	3.50	1.50
M	mCERTS accredited.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.			12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014	12/11/2014
diss.filt	Dissolved / filtered sample.			14/11/2014	14/11/2014	14/11/2014	14/11/2014	14/11/2014	14/11/2014
tot.unfilt	Total / unfiltered sample.			141114-121	141114-121	141114-121	141114-121	141114-121	141114-121
+	subcontracted test.			10383961	10383965	10384120	10384128	10383957	10384012
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-5&5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM089		85	83	87	85	91	85
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176	<176	<176	<176	<176	<176
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Toluene	<2 µg/kg	TM089		<8	<8	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089		<12	<12	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089		<24	<24	<24	<24	<24	<24
o-Xylene	<3 µg/kg	TM089		<12	<12	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend		Customer Sample Ref.	NSE113	NSE114	NSE115	NSE116	NSE116	NSE116
# M aq diss.filt tot.unfilt * **	ISO17025 accredited. mCERTS accredited. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. subcontracted test. % recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery. 1-5&*\$@ Sample deviation (see appendix)							
		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.50 Soil/Solid 06/11/2014 07/11/2014 141107-2 10333276	0.50 Soil/Solid 29/10/2014 06/11/2014 141106-109 10330683	0.50 Soil/Solid 29/10/2014 06/11/2014 141106-109 10330678	0.50 Soil/Solid 29/10/2014 06/11/2014 141106-109 10330656	1.50 Soil/Solid 06/11/2014 07/11/2014 141107-2 10333305	2.50 Soil/Solid 06/11/2014 07/11/2014 141107-2 10333309
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	101	92	93	72	103	106
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176	<176	<176	<176	<176	<176
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Toluene	<2 µg/kg	TM089	<8	<8	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	<24
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	<100	<100	1100	673
Aliphatics >C16-C21	<100 µg/kg	TM173	212	<100	<100	<100	454	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	542	499	<100	360	1270	670
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	754	499	<100	360	2830	1340
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	1050	1050	739	2010	<100	1630
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	<100	2040	851	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	1210	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1050	1050	2780	2870	<100	1630
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1800	1550	2780	3230	2830	2970

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend			Customer Sample Ref.	NSE138	NSE138	NSE140	NSE140	NSE140	NSE140
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.50	2.50	0.50	1.50	2.50	3.50
M	mCERTS accredited.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.			06/11/2014	06/11/2014	05/11/2014	05/11/2014	05/11/2014	05/11/2014
diss.filt	Dissolved / filtered sample.			07/11/2014	07/11/2014	07/11/2014	07/11/2014	07/11/2014	07/11/2014
tot.unfilt	Total / unfiltered sample.			141107-2	141107-2	141107-60	141107-60	141107-60	141107-60
+	subcontracted test.			10333326	10333341	10337846	10337900	10337923	10337927
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
1-5&5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM089		106	106	77	101	86	102
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176	<176	<176	<176	<176	<176
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Toluene	<2 µg/kg	TM089		<8	<8	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089		<12	<12	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089		<24	<24	<24	<24	<24	<24
o-Xylene	<3 µg/kg	TM089		<12	<12	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		699	678	<100	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		552	339	<100	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		980	1890	<100	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2230	2910	<100	<100	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	<100	<100	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	1600	747	<100	2480	950
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	6350	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	3290	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	1600	747	<100	8830	950
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		2230	4510	752	<100	8840	956

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]

Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

[illegible]



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Results Legend		Customer Sample Ref.	NSE220					
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	3.50 Soil/Solid 14/11/2014 17/11/2014 141117-6 10393227					
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
+	subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
1-5@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	61	@				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176	@ M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	@ M				
Benzene	<10 µg/kg	TM089	<40	@ M				
Toluene	<2 µg/kg	TM089	<8	@ M				
Ethylbenzene	<3 µg/kg	TM089	<12	@ M				
m,p-Xylene	<6 µg/kg	TM089	<24	@ M				
o-Xylene	<3 µg/kg	TM089	<12	@ M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	@				
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	@				
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	@				
Aliphatics >C6-C8	<10 µg/kg	TM089	<40	@				
Aliphatics >C8-C10	<10 µg/kg	TM089	<40	@				
Aliphatics >C10-C12	<10 µg/kg	TM089	<40	@				
Aliphatics >C12-C16	<100 µg/kg	TM173	<100					
Aliphatics >C16-C21	<100 µg/kg	TM173	<100					
Aliphatics >C21-C35	<100 µg/kg	TM173	<100					
Aliphatics >C35-C44	<100 µg/kg	TM173	<100					
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100					
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	@				
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	@				
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40	@				
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40	@				
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100					
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100					
Aromatics >EC21-EC35	<100 µg/kg	TM173	5200					
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100					
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100					
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	5200					
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	5200					



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Asbestos Identification

Asbestos Identification - Soil

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthrophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE 100 NS Z 1.50 SOLID 03/11/2014 00:00:00 10/11/2014 13:41:46 141107-9 10,334,543 TM048	26/11/14	Paul Fenney	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE 101 NS Z 1.50 SOLID 03/11/2014 00:00:00 10/11/2014 13:50:35 141107-9 10,334,571 TM048	26/11/14	Paul Fenney	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE 112 NS Z 0.50 SOLID 03/11/2014 00:00:00 13/11/2014 10:07:35 141107-9 10,334,527 TM048	26/11/14	Simon Postlewhite	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE 112 NS Z 1.50 SOLID 03/11/2014 00:00:00 10/11/2014 13:35:32 141107-9 10,334,537 TM048	26/11/14	Martin Cotterell	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE 50 NS Z 1.50 SOLID 03/11/2014 00:00:00 12/11/2014 08:25:48 141107-9 10,334,591 TM048	26/11/14	Paul Fenney	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthrophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE 69 NS Z 1.50 SOLID 03/11/2014 00:00:00 10/11/2014 13:55:15 141107-9 10,334,587 TM048	26/11/14	Martin Cotterell	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE 70 NS Z 1.50 SOLID 03/11/2014 00:00:00 10/11/2014 13:26:06 141107-9 10,334,550 TM048	26/11/14	Martin Cotterell	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE 83 NS Z 1.50 SOLID 03/11/2014 00:00:00 10/11/2014 13:39:05 141107-9 10,334,555 TM048	26/11/14	Martin Cotterell	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE 84 NS Z 1.50 SOLID 03/11/2014 00:00:00 10/11/2014 13:45:16 141107-9 10,334,583 TM048	26/11/14	Kevin Hughes	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE015 NS Z 0.50 SOLID 29/10/2014 00:00:00 10/11/2014 08:51:40 141106-109 10,330,705 TM048	25/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE016 NS Z 0.60 SOLID 29/10/2014 00:00:00 10/11/2014 07:11:28 141106-109 10,330,710 TM048	25/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthrophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE017 NS Z 0.70 SOLID 29/10/2014 00:00:00 10/11/2014 08:31:10 141106-109 10,330,724 TM048	24/11/14	Martin Cotterell	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE018 NS Z 0.50 SOLID 29/10/2014 00:00:00 10/11/2014 08:35:27 141106-109 10,330,728 TM048	24/11/14	Martin Cotterell	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE019 NS Z 0.50 SOLID 29/10/2014 00:00:00 10/11/2014 08:41:52 141106-109 10,330,739 TM048	24/11/14	Kevin Hughes	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE020 NS Z 0.50 SOLID 29/10/2014 00:00:00 10/11/2014 08:38:46 141106-109 10,330,747 TM048	25/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE053 NS Z 0.50 SOLID 14/11/2014 00:00:00 27/11/2014 09:58:48 141117-6 10,393,212 TM048	4/12/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE087 NS Z 0.50 SOLID 06/11/2014 00:00:00 14/11/2014 16:53:20 141111-51 10,357,876 TM048	20/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthrophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE088 NS Z 0.50 SOLID 06/11/2014 00:00:00 13/11/2014 12:38:32 141111-51 10,357,881 TM048	20/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE088 NS Z 0.50 SOLID 11/11/2014 00:00:00 24/11/2014 08:53:11 141114-96 10,381,620 TM048	03/12/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE089 NS Z 0.50 SOLID 06/11/2014 00:00:00 14/11/2014 16:47:51 141111-51 10,357,885 TM048	20/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE094 NS Z 0.50 SOLID 06/11/2014 00:00:00 14/11/2014 16:50:38 141111-51 10,357,842 TM048	20/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE095 NS Z 0.50 SOLID 06/11/2014 00:00:00 14/11/2014 16:57:02 141111-51 10,357,838 TM048	20/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE096 NS Z 0.50 SOLID 11/11/2014 00:00:00 15/11/2014 16:06:53 141114-96 10,381,566 TM048	03/12/14	Simon Postlewhite	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthrophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE097 NS Z 0.50 SOLID 12/11/2014 00:00:00 24/11/2014 11:26:33 141114-121 10,384,028 TM048	04/12/14	Martin Cotterell	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE114 NS Z 0.50 SOLID 29/10/2014 00:00:00 07/11/2014 15:58:52 141106-109 10,330,683 TM048	25/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE115 NS Z 0.50 SOLID 29/10/2014 00:00:00 07/11/2014 19:24:03 141106-109 10,330,678 TM048	24/11/14	Martin Cotterell	Loose fibres in soil	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE116 NS Z 0.50 SOLID 29/10/2014 00:00:00 07/11/2014 19:26:57 141106-109 10,330,656 TM048	24/11/14	Kevin Hughes	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE117 NS Z 0.50 SOLID 11/11/2014 00:00:00 15/11/2014 16:13:43 141114-96 10,381,552 TM048	03/12/14	Simon Postlewhite	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE118 NS Z 0.50 SOLID 12/11/2014 00:00:00 24/11/2014 11:57:11 141114-121 10,384,051 TM048	04/12/14	Martin Cotterell	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthrophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE120 NS Z 0.50 SOLID 29/10/2014 00:00:00 07/11/2014 19:29:01 141106-109 10,330,652 TM048	24/11/14	Kevin Hughes	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE121 NS Z 0.50 SOLID 29/10/2014 00:00:00 07/11/2014 16:25:39 141106-109 10,330,664 TM048	25/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE122 NS Z 0.50 SOLID 29/10/2014 00:00:00 07/11/2014 16:22:27 141106-109 10,330,669 TM048	24/11/14	Kevin Hughes	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE126 NS Z 0.50 SOLID 29/10/2014 00:00:00 07/11/2014 18:55:04 141106-109 10,330,719 TM048	25/11/14	Simon Postlewhite	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE133 NS Z 0.50 SOLID 29/10/2014 00:00:00 07/11/2014 17:37:12 141106-109 10,330,632 TM048	25/11/14	Simon Postlewhite	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE135 NS Z 0.50 SOLID 05/11/2014 00:00:00 13/11/2014 15:43:24 141107-60 10,337,944 TM048	27/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthrophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE137 NS Z 0.50 SOLID 29/10/2014 00:00:00 10/11/2014 14:56:04 141106-109 10,330,649 TM048	24/11/14	Martin Cotterell	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE138 NS Z 0.50 SOLID 29/10/2014 00:00:00 10/11/2014 14:52:37 141106-109 10,330,924 TM048	25/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE140 NS Z 0.50 SOLID 05/11/2014 00:00:00 13/11/2014 15:31:21 141107-60 10,337,846 TM048	27/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE141 NS Z 0.50 SOLID 05/11/2014 00:00:00 13/11/2014 15:28:44 141107-60 10,337,932 TM048	27/11/14	Kevin Gill	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE142 NS Z 0.50 SOLID 29/10/2014 00:00:00 07/11/2014 15:56:13 141106-109 10,330,928 TM048	24/11/14	Kevin Hughes	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Asbestos Quantification - Full



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric	Asbestos Quantification - PCM Evaluation	Asbestos Quantification - Total - %
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE035 NS Z 0.50 SOLID 30/10/2014 00:00:00 08/01/2015 07:20:18 141107-4 10,333,624 TM 304	None	N/C	<0.001	<0.001	<0.001
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE036 NS Z 0.50 SOLID 30/10/2014 00:00:00 08/01/2015 07:17:32 141107-4 10,333,629 TM 304	None	N/C	<0.001	<0.001	<0.001
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE085 NS Z 0.50 SOLID 30/10/2014 00:00:00 08/01/2015 06:57:59 141107-4 10,333,876 TM 304	None	N/C	<0.001	<0.001	<0.001
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	NSE115 NS Z 0.50 SOLID 29/10/2014 00:00:00 23/12/2014 09:19:55 141106-109 10,330,678 TM 304	None	N/C	<0.001	<0.001	<0.001



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Table of Results - Appendix

REPORT KEY

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

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

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

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
SUB (ASB)				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
SUB (ASB)				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
SUB (ASB)				
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		

SUB (ASB)				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		



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Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
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TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
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TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
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SUB (ASB)				
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
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PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
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Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
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ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
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TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		

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



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	10314363	10393970	10393975	10393979	10394160	10330705	10330710	10330724	10393264	10393275
	NSE009	NSE009	NSE009	NSE009	NSE009	NSE015	NSE016	NSE017	NSE017	NSE017
	0.30	1.50	2.50	3.50	0.50	0.50	0.60	0.70	1.50	2.50
AGS Ref. Depth Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	11-Nov-2014				28-Nov-2014					
Asbestos ID in Solid Samples						25-Nov-2014	25-Nov-2014	25-Nov-2014		
EPH CWG (Aliphatic) GC (S)	21-Nov-2014	05-Dec-2014	06-Dec-2014	05-Dec-2014	05-Dec-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	04-Dec-2014	04-Dec-2014
EPH CWG (Aromatic) GC (S)	21-Nov-2014	05-Dec-2014	06-Dec-2014	05-Dec-2014	05-Dec-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	04-Dec-2014	04-Dec-2014
GRO by GC-FID (S)	20-Nov-2014	07-Dec-2014	07-Dec-2014	07-Dec-2014	07-Dec-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	05-Dec-2014	05-Dec-2014
Metals in solid samples by OES	14-Nov-2014	01-Dec-2014	01-Dec-2014	01-Dec-2014	02-Dec-2014	13-Nov-2014	13-Nov-2014	13-Nov-2014	24-Nov-2014	21-Nov-2014
PAH by GCMS	20-Nov-2014	05-Dec-2014	05-Dec-2014	07-Dec-2014	08-Dec-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	04-Dec-2014	04-Dec-2014
pH	19-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	06-Dec-2014	21-Nov-2014	24-Nov-2014	24-Nov-2014	04-Dec-2014	04-Dec-2014
Sample description	07-Nov-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	28-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	18-Nov-2014	18-Nov-2014
TPH CWG GC (S)	21-Nov-2014	07-Dec-2014	07-Dec-2014	07-Dec-2014	07-Dec-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	05-Dec-2014	05-Dec-2014
Lab Sample No(s) Customer Sample Ref.	10330728	10330732	10330739	10330743	10330747	10330751	10333656	10333661	10333953	10333958
	NSE018	NSE018	NSE019	NSE019	NSE020	NSE020	NSE021	NSE021	NSE022	NSE022
	0.50	1.50	0.50	1.50	0.50	1.50	0.50	1.50	0.50	1.50
AGS Ref. Depth Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*							17-Nov-2014		17-Nov-2014	
Asbestos ID in Solid Samples	25-Nov-2014		25-Nov-2014		25-Nov-2014					
EPH CWG (Aliphatic) GC (S)	24-Nov-2014	22-Nov-2014	25-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	26-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014
EPH CWG (Aromatic) GC (S)	24-Nov-2014	22-Nov-2014	25-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	26-Nov-2014	27-Nov-2014	26-Nov-2014	26-Nov-2014
GRO by GC-FID (S)	24-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	27-Nov-2014	26-Nov-2014
Metals in solid samples by OES	17-Nov-2014	14-Nov-2014	13-Nov-2014	12-Nov-2014	17-Nov-2014	13-Nov-2014	21-Nov-2014	17-Nov-2014	21-Nov-2014	19-Nov-2014
PAH by GCMS	24-Nov-2014	21-Nov-2014	24-Nov-2014	21-Nov-2014	24-Nov-2014	19-Nov-2014	26-Nov-2014	19-Nov-2014	27-Nov-2014	19-Nov-2014
pH	24-Nov-2014	21-Nov-2014	24-Nov-2014	21-Nov-2014	24-Nov-2014	21-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	21-Nov-2014
Sample description	10-Nov-2014	10-Nov-2014	10-Nov-2014	08-Nov-2014	10-Nov-2014	08-Nov-2014	12-Nov-2014	07-Nov-2014	13-Nov-2014	13-Nov-2014
Total Organic Carbon					13-Nov-2014				21-Nov-2014	
TPH CWG GC (S)	24-Nov-2014	24-Nov-2014	25-Nov-2014	24-Nov-2014	24-Nov-2014	25-Nov-2014	26-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014
Lab Sample No(s) Customer Sample Ref.	10333963	10333682	10333686	10333691	10337519	10393356	10393362	10337512	10393391	10393397
	NSE022	NSE023	NSE023	NSE023	NSE025	NSE025	NSE025	NSE026	NSE026	NSE026
	2.50	0.50	1.50	2.50	0.50	1.50	2.50	0.50	1.50	2.50
AGS Ref. Depth Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		17-Nov-2014			19-Nov-2014			19-Nov-2014		
EPH CWG (Aliphatic) GC (S)	27-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	28-Nov-2014	02-Dec-2014	02-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014
EPH CWG (Aromatic) GC (S)	26-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	28-Nov-2014	02-Dec-2014	02-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014
GRO by GC-FID (S)	27-Nov-2014	25-Nov-2014	26-Nov-2014	25-Nov-2014	28-Nov-2014	07-Dec-2014	07-Dec-2014	28-Nov-2014	07-Dec-2014	07-Dec-2014
Metals in solid samples by OES	21-Nov-2014	19-Nov-2014	18-Nov-2014	12-Nov-2014	19-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014
PAH by GCMS	19-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	03-Dec-2014
pH	21-Nov-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	27-Nov-2014	01-Dec-2014	01-Dec-2014	27-Nov-2014	01-Dec-2014	01-Dec-2014
Sample description	13-Nov-2014	12-Nov-2014	08-Nov-2014	07-Nov-2014	12-Nov-2014	17-Nov-2014	17-Nov-2014	12-Nov-2014	18-Nov-2014	18-Nov-2014
Total Organic Carbon		17-Nov-2014								20-Nov-2014
TPH CWG GC (S)	27-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	28-Nov-2014	07-Dec-2014	07-Dec-2014	28-Nov-2014	07-Dec-2014	07-Dec-2014
Lab Sample No(s) Customer Sample Ref.	10393401	10393406	10393412	10337507	10393417	10393424	10393434	10393446	10337431	10393451
	NSE026	NSE026	NSE026	NSE027	NSE027	NSE027	NSE027	NSE027	NSE028	NSE028
	3.50	4.40	4.90	0.50	1.50	2.50	3.50	4.50	0.50	1.50
AGS Ref. Depth Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*				19-Nov-2014					19-Nov-2014	
EPH CWG (Aliphatic) GC (S)	02-Dec-2014	02-Dec-2014	04-Dec-2014	28-Nov-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014	28-Nov-2014	02-Dec-2014
EPH CWG (Aromatic) GC (S)	02-Dec-2014	02-Dec-2014	04-Dec-2014	28-Nov-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014	28-Nov-2014	02-Dec-2014
GRO by GC-FID (S)	07-Dec-2014	07-Dec-2014	07-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	28-Nov-2014	05-Dec-2014
Metals in solid samples by OES	21-Nov-2014	27-Nov-2014	21-Nov-2014	21-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	21-Nov-2014	24-Nov-2014
PAH by GCMS	04-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014
pH	04-Dec-2014	01-Dec-2014	01-Dec-2014	27-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	01-Dec-2014	27-Nov-2014	04-Dec-2014
Sample description	17-Nov-2014	17-Nov-2014	18-Nov-2014	12-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	12-Nov-2014	17-Nov-2014
Total Organic Carbon								20-Nov-2014	19-Nov-2014	
TPH CWG GC (S)	07-Dec-2014	07-Dec-2014	07-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	28-Nov-2014	05-Dec-2014



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Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10393458	10393463	10337482	10393280	10393284	10393291	10337491	10393377	10393438	10393468
	NSE028	NSE028	NSE029	NSE029	NSE029	NSE029	NSE030	NSE030	NSE030	NSE030
	2.50	3.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*			19-Nov-2014				19-Nov-2014			
EPH CWG (Aliphatic) GC (S)	02-Dec-2014	02-Dec-2014	28-Nov-2014	02-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	02-Dec-2014	02-Dec-2014
EPH CWG (Aromatic) GC (S)	02-Dec-2014	02-Dec-2014	28-Nov-2014	02-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	02-Dec-2014	02-Dec-2014
GRO by GC-FID (S)	05-Dec-2014	05-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	07-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014
Metals in solid samples by OES	24-Nov-2014	24-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	24-Nov-2014	19-Nov-2014	21-Nov-2014	24-Nov-2014	24-Nov-2014
PAH by GCMS	04-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014
pH	04-Dec-2014	04-Dec-2014	27-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	28-Nov-2014	01-Dec-2014
Sample description	17-Nov-2014	17-Nov-2014	12-Nov-2014	17-Nov-2014	18-Nov-2014	18-Nov-2014	12-Nov-2014	18-Nov-2014	17-Nov-2014	17-Nov-2014
Total Organic Carbon		20-Nov-2014								
TPH CWG GC (S)	05-Dec-2014	05-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	07-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10337496	10384065	10384071	10333105	10384061	10333094	10333624	10333629	10357865	10333206
	NSE031	NSE031	NSE031	NSE32	NSE032	NSE33	NSE035	NSE036	NSE036	NSE37
	0.50	1.50	2.50	0.50	1.50	0.50	0.50	0.50	1.50	0.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	19-Nov-2014			18-Nov-2014		18-Nov-2014	17-Nov-2014	17-Nov-2014		18-Nov-2014
Asbestos Quantification - Full							09-Jan-2015	09-Jan-2015		
EPH CWG (Aliphatic) GC (S)	28-Nov-2014	02-Dec-2014	04-Dec-2014	24-Nov-2014	04-Dec-2014	25-Nov-2014	27-Nov-2014	25-Nov-2014	22-Nov-2014	25-Nov-2014
EPH CWG (Aromatic) GC (S)	28-Nov-2014	02-Dec-2014	04-Dec-2014	24-Nov-2014	04-Dec-2014	25-Nov-2014	27-Nov-2014	25-Nov-2014	22-Nov-2014	25-Nov-2014
GRO by GC-FID (S)	28-Nov-2014	04-Dec-2014	04-Dec-2014	21-Nov-2014	04-Dec-2014	21-Nov-2014	26-Nov-2014	26-Nov-2014	24-Nov-2014	25-Nov-2014
Metals in solid samples by OES	21-Nov-2014	28-Nov-2014	28-Nov-2014	20-Nov-2014	27-Nov-2014	20-Nov-2014	18-Nov-2014	19-Nov-2014	24-Nov-2014	18-Nov-2014
PAH by GCMS	28-Nov-2014	02-Dec-2014	03-Dec-2014	24-Nov-2014	04-Dec-2014	25-Nov-2014	27-Nov-2014	26-Nov-2014	20-Nov-2014	25-Nov-2014
pH	27-Nov-2014	03-Dec-2014	03-Dec-2014	24-Nov-2014	03-Dec-2014	24-Nov-2014	25-Nov-2014	25-Nov-2014	18-Nov-2014	24-Nov-2014
Sample description	12-Nov-2014	21-Nov-2014	24-Nov-2014	08-Nov-2014	21-Nov-2014	10-Nov-2014	11-Nov-2014	13-Nov-2014	12-Nov-2014	10-Nov-2014
Total Organic Carbon		01-Dec-2014							17-Nov-2014	
TPH CWG GC (S)	28-Nov-2014	04-Dec-2014	04-Dec-2014	24-Nov-2014	04-Dec-2014	25-Nov-2014	27-Nov-2014	26-Nov-2014	24-Nov-2014	25-Nov-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10357860	10333271	10357846	10333151	10357834	10333652	10333633	10333619	10357872	10333615
	NSE037	NSE38	NSE038	NSE46	NSE046	NSE047	NSE048	NSE049	NSE049	NSE050
	1.50	0.50	1.50	0.50	1.50	0.50	0.50	0.50	1.50	0.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		18-Nov-2014		18-Nov-2014		17-Nov-2014	17-Nov-2014	17-Nov-2014		17-Nov-2014
EPH CWG (Aliphatic) GC (S)	21-Nov-2014	25-Nov-2014	22-Nov-2014	25-Nov-2014	22-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	22-Nov-2014	27-Nov-2014
EPH CWG (Aromatic) GC (S)	21-Nov-2014	25-Nov-2014	22-Nov-2014	25-Nov-2014	22-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	22-Nov-2014	27-Nov-2014
GRO by GC-FID (S)	21-Nov-2014	25-Nov-2014	21-Nov-2014	25-Nov-2014	21-Nov-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	24-Nov-2014	25-Nov-2014
Metals in solid samples by OES	24-Nov-2014	20-Nov-2014	24-Nov-2014	20-Nov-2014	19-Nov-2014	19-Nov-2014	18-Nov-2014	18-Nov-2014	24-Nov-2014	18-Nov-2014
PAH by GCMS	20-Nov-2014	25-Nov-2014	20-Nov-2014	25-Nov-2014	20-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	20-Nov-2014	27-Nov-2014
pH	18-Nov-2014	24-Nov-2014	18-Nov-2014	24-Nov-2014	18-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	18-Nov-2014	26-Nov-2014
Sample description	12-Nov-2014	10-Nov-2014	12-Nov-2014	10-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	11-Nov-2014	12-Nov-2014	11-Nov-2014
Total Organic Carbon					17-Nov-2014			19-Nov-2014		
TPH CWG GC (S)	21-Nov-2014	25-Nov-2014	22-Nov-2014	25-Nov-2014	22-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	24-Nov-2014	27-Nov-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10333100	10384039	10337501	10393212	10393270	10393323	10337472	10393475	10393480	10334591
	NSE51	NSE051	NSE052	NSE053	NSE053	NSE053	NSE054	NSE054	NSE054	NSE 50
	0.50	1.50	0.50	0.50	1.50	2.50	0.50	1.50	2.50	1.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	18-Nov-2014		19-Nov-2014				19-Nov-2014			
Asbestos ID in Solid Samples				05-Dec-2014						27-Nov-2014
EPH CWG (Aliphatic) GC (S)	25-Nov-2014	03-Dec-2014	28-Nov-2014	04-Dec-2014	02-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	27-Nov-2014
EPH CWG (Aromatic) GC (S)	25-Nov-2014	03-Dec-2014	28-Nov-2014	04-Dec-2014	02-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	27-Nov-2014
GRO by GC-FID (S)	25-Nov-2014	04-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	28-Nov-2014	07-Dec-2014	05-Dec-2014	27-Nov-2014
Metals in solid samples by OES	20-Nov-2014	28-Nov-2014	19-Nov-2014	05-Dec-2014	24-Nov-2014	24-Nov-2014	19-Nov-2014	28-Nov-2014	01-Dec-2014	20-Nov-2014
PAH by GCMS	24-Nov-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	03-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	26-Nov-2014
pH	24-Nov-2014	03-Dec-2014	28-Nov-2014	04-Dec-2014	01-Dec-2014	01-Dec-2014	27-Nov-2014	04-Dec-2014	04-Dec-2014	25-Nov-2014
Sample description	10-Nov-2014	21-Nov-2014	12-Nov-2014	02-Dec-2014	17-Nov-2014		12-Nov-2014	25-Nov-2014	25-Nov-2014	12-Nov-2014
Total Organic Carbon			19-Nov-2014			20-Nov-2014				19-Nov-2014
TPH CWG GC (S)	25-Nov-2014	04-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	28-Nov-2014	07-Dec-2014	05-Dec-2014	27-Nov-2014



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Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10393484	10337476	10383977	10383982	10383987	10383991	10337462	10393308	10393313	10393317
	NSE054	NSE055	NSE055	NSE055	NSE055	NSE055	NSE056	NSE056	NSE056	NSE056
	3.50	0.50	1.50	2.50	3.50	4.50	0.50	1.50	2.50	3.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		20-Nov-2014					20-Nov-2014			
EPH CWG (Aliphatic) GC (S)	04-Dec-2014	28-Nov-2014	03-Dec-2014	03-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	02-Dec-2014	02-Dec-2014	04-Dec-2014
EPH CWG (Aromatic) GC (S)	04-Dec-2014	28-Nov-2014	03-Dec-2014	03-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	02-Dec-2014	02-Dec-2014	04-Dec-2014
GRO by GC-FID (S)	05-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	07-Dec-2014
Metals in solid samples by OES	04-Dec-2014	19-Nov-2014	21-Nov-2014	21-Nov-2014	28-Nov-2014	28-Nov-2014	21-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014
PAH by GCMS	04-Dec-2014	28-Nov-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	03-Dec-2014
pH	04-Dec-2014	27-Nov-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	27-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014
Sample description	25-Nov-2014	12-Nov-2014	17-Nov-2014	17-Nov-2014	24-Nov-2014	21-Nov-2014	12-Nov-2014	17-Nov-2014	17-Nov-2014	18-Nov-2014
Total Organic Carbon		19-Nov-2014	20-Nov-2014						20-Nov-2014	
TPH CWG GC (S)	05-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	05-Dec-2014	04-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	07-Dec-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10393327	10337467	10393331	10393336	10393368	10393373	10393382	10393386	10393340	10393347
	NSE056	NSE057	NSE057	NSE057	NSE058	NSE058	NSE058	NSE058	NSE061	NSE061
	4.50	0.50	1.50	2.50	1.50	2.50	3.50	4.50	1.50	2.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		20-Nov-2014								
EPH CWG (Aliphatic) GC (S)	04-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014
EPH CWG (Aromatic) GC (S)	04-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014	02-Dec-2014
GRO by GC-FID (S)	05-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	07-Dec-2014	04-Dec-2014	07-Dec-2014	05-Dec-2014	07-Dec-2014
Metals in solid samples by OES	21-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	24-Nov-2014	24-Nov-2014	21-Nov-2014	24-Nov-2014	27-Nov-2014	21-Nov-2014
PAH by GCMS	03-Dec-2014	28-Nov-2014	03-Dec-2014	03-Dec-2014	04-Dec-2014	05-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014
pH	04-Dec-2014	27-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	01-Dec-2014	01-Dec-2014	04-Dec-2014	04-Dec-2014
Sample description	18-Nov-2014	12-Nov-2014	18-Nov-2014	18-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014
TPH CWG GC (S)	05-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	07-Dec-2014	04-Dec-2014	07-Dec-2014	05-Dec-2014	07-Dec-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10393352	10298722	10393295	10393300	10393304	10383995	10384004	10384008	10383969	10383973
	NSE061	NSE62	NSE062	NSE062	NSE062	NSE063	NSE063	NSE063	NSE064	NSE064
	3.50	1.50	1.50	2.50	3.50	1.50	2.50	3.50	1.50	2.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
EPH CWG (Aliphatic) GC (S)	02-Dec-2014	20-Nov-2014	02-Dec-2014	05-Dec-2014	02-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	04-Dec-2014	03-Dec-2014
EPH CWG (Aromatic) GC (S)	02-Dec-2014	20-Nov-2014	02-Dec-2014	05-Dec-2014	02-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	04-Dec-2014	03-Dec-2014
GRO by GC-FID (S)	05-Dec-2014	17-Nov-2014	05-Dec-2014	07-Dec-2014	07-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014
Metals in solid samples by OES	24-Nov-2014	13-Nov-2014	24-Nov-2014	28-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	28-Nov-2014	25-Nov-2014
PAH by GCMS	04-Dec-2014	17-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014
pH	04-Dec-2014	17-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014
Sample description	17-Nov-2014	04-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	24-Nov-2014	21-Nov-2014
TPH CWG GC (S)	05-Dec-2014	20-Nov-2014	05-Dec-2014	07-Dec-2014	07-Dec-2014	05-Dec-2014	04-Dec-2014	05-Dec-2014	04-Dec-2014	05-Dec-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10381641	10381646	10384080	10333611	10333638	10333642	10333078	10357850	10334587	10334550
	NSE065	NSE065	NSE066	NSE069	NSE070	NSE071	NSE72	NSE072	NSE 69	NSE 70
	1.50	2.50	1.50	0.50	0.50	0.50	0.50	1.50	1.50	1.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*				17-Nov-2014	17-Nov-2014	17-Nov-2014	18-Nov-2014			
Asbestos ID in Solid Samples									27-Nov-2014	27-Nov-2014
EPH CWG (Aliphatic) GC (S)	03-Dec-2014	04-Dec-2014	04-Dec-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	25-Nov-2014	22-Nov-2014	27-Nov-2014	27-Nov-2014
EPH CWG (Aromatic) GC (S)	03-Dec-2014	04-Dec-2014	04-Dec-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	25-Nov-2014	22-Nov-2014	27-Nov-2014	27-Nov-2014
GRO by GC-FID (S)	04-Dec-2014	04-Dec-2014	04-Dec-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	24-Nov-2014	20-Nov-2014	27-Nov-2014	27-Nov-2014
Metals in solid samples by OES	27-Nov-2014	01-Dec-2014	28-Nov-2014	18-Nov-2014	18-Nov-2014	19-Nov-2014	20-Nov-2014	24-Nov-2014	18-Nov-2014	20-Nov-2014
PAH by GCMS	04-Dec-2014	03-Dec-2014	04-Dec-2014	25-Nov-2014	26-Nov-2014	26-Nov-2014	25-Nov-2014	20-Nov-2014	26-Nov-2014	20-Nov-2014
pH	04-Dec-2014	03-Dec-2014	03-Dec-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	24-Nov-2014	18-Nov-2014	26-Nov-2014	26-Nov-2014
Sample description	21-Nov-2014	25-Nov-2014	21-Nov-2014	11-Nov-2014	12-Nov-2014	12-Nov-2014	10-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
TPH CWG GC (S)	04-Dec-2014	04-Dec-2014	04-Dec-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	25-Nov-2014	22-Nov-2014	27-Nov-2014	27-Nov-2014



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Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10333368	10333606	10333977	10333876	10333936	10357876	10357881	10334555	10334561	10334583
	NSE73	NSE083	NSE084	NSE085	NSE086	NSE087	NSE088	NSE 83	NSE 83	NSE 84
	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.50	2.50	1.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	18-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014					
Asbestos ID in Solid Samples						21-Nov-2014	21-Nov-2014	27-Nov-2014		27-Nov-2014
Asbestos Quantification - Full				09-Jan-2015						
EPH CWG (Aliphatic) GC (S)	25-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	26-Nov-2014	21-Nov-2014	20-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014
EPH CWG (Aromatic) GC (S)	25-Nov-2014	27-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	21-Nov-2014	20-Nov-2014	27-Nov-2014	26-Nov-2014	27-Nov-2014
GRO by GC-FID (S)	25-Nov-2014	25-Nov-2014	25-Nov-2014	26-Nov-2014	25-Nov-2014	21-Nov-2014	20-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014
Metals in solid samples by OES	20-Nov-2014	18-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	19-Nov-2014	19-Nov-2014	20-Nov-2014	18-Nov-2014	19-Nov-2014
PAH by GCMS	26-Nov-2014	27-Nov-2014	26-Nov-2014	27-Nov-2014	25-Nov-2014	19-Nov-2014	19-Nov-2014	27-Nov-2014	26-Nov-2014	26-Nov-2014
pH	24-Nov-2014	25-Nov-2014	26-Nov-2014	25-Nov-2014	26-Nov-2014	18-Nov-2014	19-Nov-2014	26-Nov-2014	21-Nov-2014	26-Nov-2014
Sample description	10-Nov-2014	11-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	14-Nov-2014	14-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
Total Organic Carbon							19-Nov-2014	19-Nov-2014		
TPH CWG GC (S)	25-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	26-Nov-2014	21-Nov-2014	20-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10381620	10381630	10381636	10357885	10383961	10383965	10383957	10384120	10384128	10384012
	NSE088	NSE088	NSE088	NSE089	NSE089	NSE089	NSE090	NSE090	NSE090	NSE091
	0.50	1.50	2.50	0.50	1.50	2.50	3.50	1.50	2.50	1.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	04-Dec-2014			21-Nov-2014						
EPH CWG (Aliphatic) GC (S)	03-Dec-2014	03-Dec-2014	03-Dec-2014	20-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	03-Dec-2014	04-Dec-2014	04-Dec-2014
EPH CWG (Aromatic) GC (S)	03-Dec-2014	03-Dec-2014	03-Dec-2014	20-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	03-Dec-2014	04-Dec-2014	04-Dec-2014
GRO by GC-FID (S)	04-Dec-2014	04-Dec-2014	04-Dec-2014	24-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014
Metals in solid samples by OES	01-Dec-2014	27-Nov-2014	27-Nov-2014	19-Nov-2014	28-Nov-2014	28-Nov-2014	28-Nov-2014	27-Nov-2014	28-Nov-2014	27-Nov-2014
PAH by GCMS	03-Dec-2014	04-Dec-2014	03-Dec-2014	19-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	03-Dec-2014	03-Dec-2014
pH	03-Dec-2014	03-Dec-2014	03-Dec-2014	18-Nov-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014
Sample description	24-Nov-2014	21-Nov-2014	21-Nov-2014	14-Nov-2014	24-Nov-2014	24-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014	21-Nov-2014
TPH CWG GC (S)	04-Dec-2014	04-Dec-2014	04-Dec-2014	24-Nov-2014	04-Dec-2014	04-Dec-2014	05-Dec-2014	04-Dec-2014	05-Dec-2014	04-Dec-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10384018	10384023	10357842	10384104	10384112	10357838	10383952	10383999	10381566	10381587
	NSE091	NSE091	NSE094	NSE094	NSE094	NSE095	NSE095	NSE095	NSE096	NSE096
	2.50	3.50	0.50	1.50	2.50	0.50	1.50	2.50	0.50	1.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			21-Nov-2014			21-Nov-2014			04-Dec-2014	
EPH CWG (Aliphatic) GC (S)	04-Dec-2014	04-Dec-2014	21-Nov-2014	04-Dec-2014	04-Dec-2014	21-Nov-2014	03-Dec-2014	02-Dec-2014	03-Dec-2014	04-Dec-2014
EPH CWG (Aromatic) GC (S)	04-Dec-2014	04-Dec-2014	21-Nov-2014	04-Dec-2014	04-Dec-2014	21-Nov-2014	03-Dec-2014	02-Dec-2014	03-Dec-2014	04-Dec-2014
GRO by GC-FID (S)	04-Dec-2014	04-Dec-2014	21-Nov-2014	04-Dec-2014	04-Dec-2014	21-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014
Metals in solid samples by OES	28-Nov-2014	28-Nov-2014	19-Nov-2014	28-Nov-2014	28-Nov-2014	19-Nov-2014	27-Nov-2014	27-Nov-2014	21-Nov-2014	01-Dec-2014
PAH by GCMS	03-Dec-2014	04-Dec-2014	19-Nov-2014	04-Dec-2014	04-Dec-2014	19-Nov-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014
pH	03-Dec-2014	03-Dec-2014	18-Nov-2014	03-Dec-2014	03-Dec-2014	18-Nov-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	04-Dec-2014
Sample description	21-Nov-2014	21-Nov-2014	14-Nov-2014	21-Nov-2014	21-Nov-2014	14-Nov-2014	21-Nov-2014	21-Nov-2014	15-Nov-2014	25-Nov-2014
Total Organic Carbon			19-Nov-2014		02-Dec-2014		26-Nov-2014			
TPH CWG GC (S)	04-Dec-2014	04-Dec-2014	21-Nov-2014	05-Dec-2014	04-Dec-2014	21-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10384028	10384033	10333587	10333648	10333815	10333597	10487241	10334543	10334571	10334579
	NSE097	NSE097	NSE098	NSE099	NSE100	NSE101	NSE110	NSE 100	NSE 101	NSE 101
	0.50	1.50	0.50	0.50	0.50	0.50	0.50	1.50	1.50	2.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*			17-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	10-Dec-2014			
Asbestos ID in Solid Samples	04-Dec-2014							27-Nov-2014	27-Nov-2014	
EPH CWG (Aliphatic) GC (S)	03-Dec-2014	03-Dec-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	26-Nov-2014	22-Dec-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014
EPH CWG (Aromatic) GC (S)	03-Dec-2014	03-Dec-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	26-Nov-2014	22-Dec-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014
GRO by GC-FID (S)	04-Dec-2014	04-Dec-2014	25-Nov-2014	25-Nov-2014	26-Nov-2014	25-Nov-2014	22-Dec-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014
Metals in solid samples by OES	27-Nov-2014	28-Nov-2014	18-Nov-2014	18-Nov-2014	18-Nov-2014	21-Nov-2014	18-Dec-2014	19-Nov-2014	19-Nov-2014	21-Nov-2014
PAH by GCMS	02-Dec-2014	02-Dec-2014	24-Nov-2014	25-Nov-2014	25-Nov-2014	27-Nov-2014	21-Dec-2014	27-Nov-2014	27-Nov-2014	26-Nov-2014
pH	03-Dec-2014	03-Dec-2014	26-Nov-2014	25-Nov-2014	26-Nov-2014	26-Nov-2014	19-Dec-2014	26-Nov-2014	26-Nov-2014	21-Nov-2014
Sample description	24-Nov-2014	21-Nov-2014	08-Nov-2014	08-Nov-2014	08-Nov-2014	12-Nov-2014	12-Dec-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
Total Organic Carbon	27-Nov-2014		19-Nov-2014				16-Dec-2014			
TPH CWG GC (S)	04-Dec-2014	04-Dec-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	26-Nov-2014	22-Dec-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014



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Lab Sample No(s) Customer Sample Ref.	10333759	10333259	10333265	10333276	10333701	10330683	10330678	10330656	10334527	10334537
	NSE112	NSE113	NSE113	NSE113	NSE113	NSE114	NSE115	NSE116	NSE 112	NSE 112
AGS Ref.										
Depth	0.50	0.50	1.50	2.50	0.50	0.50	0.50	0.50	0.50	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	17-Nov-2014	18-Nov-2014			17-Nov-2014					
Asbestos ID in Solid Samples						25-Nov-2014	25-Nov-2014	25-Nov-2014	27-Nov-2014	27-Nov-2014
Asbestos Quantification - Full							31-Dec-2014			
EPH CWG (Aliphatic) GC (S)	27-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	27-Nov-2014	27-Nov-2014
EPH CWG (Aromatic) GC (S)	26-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	27-Nov-2014	27-Nov-2014
GRO by GC-FID (S)	25-Nov-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	25-Nov-2014	24-Nov-2014	24-Nov-2014	27-Nov-2014	27-Nov-2014
Metals in solid samples by OES	21-Nov-2014	20-Nov-2014	21-Nov-2014	19-Nov-2014	18-Nov-2014	17-Nov-2014	17-Nov-2014	17-Nov-2014	20-Nov-2014	18-Nov-2014
PAH by GCMS	26-Nov-2014	19-Nov-2014	24-Nov-2014	24-Nov-2014	25-Nov-2014	21-Nov-2014	21-Nov-2014	19-Nov-2014	27-Nov-2014	27-Nov-2014
pH	26-Nov-2014	24-Nov-2014	20-Nov-2014	19-Nov-2014	26-Nov-2014	20-Nov-2014	21-Nov-2014	21-Nov-2014	25-Nov-2014	26-Nov-2014
Sample description	12-Nov-2014	10-Nov-2014	07-Nov-2014	07-Nov-2014	08-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	12-Nov-2014	12-Nov-2014
Total Organic Carbon	21-Nov-2014							19-Nov-2014	19-Nov-2014	
TPH CWG GC (S)	27-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	26-Nov-2014	25-Nov-2014	24-Nov-2014	24-Nov-2014	27-Nov-2014	27-Nov-2014

Lab Sample No(s) Customer Sample Ref.	10333305	10333309	10381552	10381556	10381562	10384051	10384088	10384096	10487255	10487261
	NSE116	NSE116	NSE117	NSE117	NSE117	NSE118	NSE118	NSE118	NSE119	NSE119
AGS Ref.										
Depth	1.50	2.50	0.50	1.50	2.50	0.50	1.50	2.50	0.50	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*									10-Dec-2014	
Asbestos ID in Solid Samples			04-Dec-2014			04-Dec-2014				
EPH CWG (Aliphatic) GC (S)	26-Nov-2014	26-Nov-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	04-Dec-2014	03-Dec-2014	22-Dec-2014	22-Dec-2014
EPH CWG (Aromatic) GC (S)	26-Nov-2014	26-Nov-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	04-Dec-2014	03-Dec-2014	22-Dec-2014	22-Dec-2014
GRO by GC-FID (S)	24-Nov-2014	24-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	29-Dec-2014	22-Dec-2014
Metals in solid samples by OES	19-Nov-2014	24-Nov-2014	21-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	28-Nov-2014	28-Nov-2014	16-Dec-2014	17-Dec-2014
PAH by GCMS	24-Nov-2014	24-Nov-2014	03-Dec-2014	04-Dec-2014	03-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	19-Dec-2014	18-Dec-2014
pH	20-Nov-2014	19-Nov-2014	03-Dec-2014	03-Dec-2014	04-Dec-2014	03-Dec-2014	03-Dec-2014	03-Dec-2014	19-Dec-2014	20-Dec-2014
Sample description	07-Nov-2014	07-Nov-2014	15-Nov-2014	21-Nov-2014	21-Nov-2014	24-Nov-2014	21-Nov-2014	21-Nov-2014	11-Dec-2014	08-Dec-2014
TPH CWG GC (S)	26-Nov-2014	26-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	22-Dec-2014	22-Dec-2014

Lab Sample No(s) Customer Sample Ref.	10330652	10333315	10333321	10330664	10330669	10357612	10330719	10330632	10337914	10357618
	NSE120	NSE120	NSE120	NSE121	NSE122	NSE125	NSE126	NSE133	NSE133	NSE134
AGS Ref.										
Depth	0.50	1.50	2.50	0.50	0.50	1.50	0.50	0.50	1.50	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	25-Nov-2014			25-Nov-2014	25-Nov-2014		25-Nov-2014	25-Nov-2014		
EPH CWG (Aliphatic) GC (S)	24-Nov-2014	25-Nov-2014	26-Nov-2014	22-Nov-2014	24-Nov-2014	22-Nov-2014	24-Nov-2014	24-Nov-2014	28-Nov-2014	21-Nov-2014
EPH CWG (Aromatic) GC (S)	24-Nov-2014	25-Nov-2014	26-Nov-2014	22-Nov-2014	24-Nov-2014	22-Nov-2014	24-Nov-2014	24-Nov-2014	28-Nov-2014	21-Nov-2014
GRO by GC-FID (S)	24-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	20-Nov-2014	20-Nov-2014	24-Nov-2014	28-Nov-2014	20-Nov-2014
Metals in solid samples by OES	18-Nov-2014	24-Nov-2014	24-Nov-2014	19-Nov-2014	17-Nov-2014	17-Nov-2014	13-Nov-2014	13-Nov-2014	20-Nov-2014	17-Nov-2014
PAH by GCMS	21-Nov-2014	24-Nov-2014	24-Nov-2014	21-Nov-2014	21-Nov-2014	19-Nov-2014	21-Nov-2014	21-Nov-2014	28-Nov-2014	19-Nov-2014
pH	21-Nov-2014	20-Nov-2014	24-Nov-2014	20-Nov-2014	20-Nov-2014	18-Nov-2014	20-Nov-2014	20-Nov-2014	27-Nov-2014	18-Nov-2014
Sample description	07-Nov-2014	07-Nov-2014	07-Nov-2014	13-Nov-2014	07-Nov-2014	12-Nov-2014	07-Nov-2014	07-Nov-2014	12-Nov-2014	12-Nov-2014
TPH CWG GC (S)	24-Nov-2014	25-Nov-2014	26-Nov-2014	24-Nov-2014	24-Nov-2014	22-Nov-2014	24-Nov-2014	24-Nov-2014	28-Nov-2014	21-Nov-2014

Lab Sample No(s) Customer Sample Ref.	10337852	10337856	10337944	10337948	10330649	10330924	10333326	10333341	10337846	10337900
	NSE135	NSE135	NSE135	NSE135	NSE137	NSE138	NSE138	NSE138	NSE140	NSE140
AGS Ref.										
Depth	2.50	3.50	0.50	1.50	0.50	0.50	1.50	2.50	0.50	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			27-Nov-2014		25-Nov-2014	25-Nov-2014			27-Nov-2014	
EPH CWG (Aliphatic) GC (S)	27-Nov-2014	27-Nov-2014	27-Nov-2014	28-Nov-2014	24-Nov-2014	25-Nov-2014	26-Nov-2014	26-Nov-2014	27-Nov-2014	28-Nov-2014
EPH CWG (Aromatic) GC (S)	27-Nov-2014	27-Nov-2014	27-Nov-2014	28-Nov-2014	24-Nov-2014	25-Nov-2014	26-Nov-2014	26-Nov-2014	27-Nov-2014	28-Nov-2014
GRO by GC-FID (S)	28-Nov-2014	29-Nov-2014	28-Nov-2014	28-Nov-2014	20-Nov-2014	25-Nov-2014	24-Nov-2014	24-Nov-2014	28-Nov-2014	28-Nov-2014
Metals in solid samples by OES	21-Nov-2014	21-Nov-2014	19-Nov-2014	19-Nov-2014	14-Nov-2014	14-Nov-2014	21-Nov-2014	21-Nov-2014	19-Nov-2014	20-Nov-2014
PAH by GCMS	27-Nov-2014	27-Nov-2014	27-Nov-2014	20-Nov-2014	21-Nov-2014	21-Nov-2014	24-Nov-2014	24-Nov-2014	28-Nov-2014	28-Nov-2014
pH	27-Nov-2014	27-Nov-2014	27-Nov-2014	26-Nov-2014	21-Nov-2014	24-Nov-2014	24-Nov-2014	24-Nov-2014	27-Nov-2014	26-Nov-2014
Sample description	12-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	10-Nov-2014	10-Nov-2014	07-Nov-2014	07-Nov-2014	13-Nov-2014	12-Nov-2014
TPH CWG GC (S)	28-Nov-2014	29-Nov-2014	28-Nov-2014	28-Nov-2014	24-Nov-2014	25-Nov-2014	26-Nov-2014	26-Nov-2014	28-Nov-2014	28-Nov-2014



Customer : H_ATKINS_LDC

Client Reference : Site Wide Trial Pitting

Location : Phase 53

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10337923	10337927	10337932	10337936	10337940	10330928	10337910	10337919	10337452	10394029
	NSE140	NSE140	NSE141	NSE141	NSE141	NSE142	NSE142	NSE150	NSE215	NSE215
	2.50	3.50	0.50	1.50	2.50	0.50	1.50	1.50	0.50	1.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*									20-Nov-2014	
Asbestos ID in Solid Samples			27-Nov-2014			25-Nov-2014				
EPH CWG (Aliphatic) GC (S)	28-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	24-Nov-2014	28-Nov-2014	28-Nov-2014	28-Nov-2014	05-Dec-2014
EPH CWG (Aromatic) GC (S)	28-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	24-Nov-2014	28-Nov-2014	28-Nov-2014	28-Nov-2014	05-Dec-2014
GRO by GC-FID (S)	28-Nov-2014	28-Nov-2014	28-Nov-2014	28-Nov-2014	28-Nov-2014	24-Nov-2014	28-Nov-2014	28-Nov-2014	28-Nov-2014	07-Dec-2014
Metals in solid samples by OES	20-Nov-2014	21-Nov-2014	19-Nov-2014	21-Nov-2014	21-Nov-2014	17-Nov-2014	19-Nov-2014	20-Nov-2014	21-Nov-2014	08-Dec-2014
PAH by GCMS	28-Nov-2014	20-Nov-2014	28-Nov-2014	27-Nov-2014	27-Nov-2014	21-Nov-2014	28-Nov-2014	28-Nov-2014	28-Nov-2014	05-Dec-2014
pH	27-Nov-2014	26-Nov-2014	27-Nov-2014	27-Nov-2014	27-Nov-2014	20-Nov-2014	26-Nov-2014	27-Nov-2014	28-Nov-2014	04-Dec-2014
Sample description	12-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	12-Nov-2014	07-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	27-Nov-2014
Total Organic Carbon		17-Nov-2014								
TPH CWG GC (S)	28-Nov-2014	28-Nov-2014	28-Nov-2014	28-Nov-2014	28-Nov-2014	24-Nov-2014	28-Nov-2014	28-Nov-2014	28-Nov-2014	07-Dec-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10394034	10337448	10394038	10394043	10337444	10337440	10393251	10393255	10393259	10337435
	NSE215	NSE216	NSE216	NSE216	NSE217	NSE218	NSE218	NSE218	NSE218	NSE219
	2.50	0.50	1.50	2.50	0.50	0.50	1.50	2.50	3.50	0.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*		20-Nov-2014			20-Nov-2014	20-Nov-2014				20-Nov-2014
EPH CWG (Aliphatic) GC (S)	05-Dec-2014	28-Nov-2014	05-Dec-2014	06-Dec-2014	28-Nov-2014	28-Nov-2014	05-Dec-2014	02-Dec-2014	02-Dec-2014	28-Nov-2014
EPH CWG (Aromatic) GC (S)	05-Dec-2014	28-Nov-2014	05-Dec-2014	06-Dec-2014	28-Nov-2014	28-Nov-2014	05-Dec-2014	02-Dec-2014	02-Dec-2014	28-Nov-2014
GRO by GC-FID (S)	07-Dec-2014	27-Nov-2014	07-Dec-2014	07-Dec-2014	27-Nov-2014	27-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	28-Nov-2014
Metals in solid samples by OES	08-Dec-2014	21-Nov-2014	08-Dec-2014	08-Dec-2014	19-Nov-2014	21-Nov-2014	28-Nov-2014	24-Nov-2014	21-Nov-2014	21-Nov-2014
PAH by GCMS	05-Dec-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	28-Nov-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014
pH	04-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	27-Nov-2014	27-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014	27-Nov-2014
Sample description	27-Nov-2014	12-Nov-2014	27-Nov-2014	27-Nov-2014	12-Nov-2014	12-Nov-2014	25-Nov-2014	17-Nov-2014	17-Nov-2014	12-Nov-2014
Total Organic Carbon		19-Nov-2014								
TPH CWG GC (S)	07-Dec-2014	28-Nov-2014	07-Dec-2014	07-Dec-2014	28-Nov-2014	28-Nov-2014	05-Dec-2014	05-Dec-2014	05-Dec-2014	28-Nov-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	10393232	10393242	10393247	10337528	10393218	10393222	10393227			
	NSE219	NSE219	NSE219	NSE220	NSE220	NSE220	NSE220			
	1.50	2.50	3.50	0.50	1.50	2.50	3.50			
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Asbestos fibres in Soil*				20-Nov-2014						
EPH CWG (Aliphatic) GC (S)	02-Dec-2014	02-Dec-2014	05-Dec-2014	28-Nov-2014	02-Dec-2014	02-Dec-2014	05-Dec-2014			
EPH CWG (Aromatic) GC (S)	02-Dec-2014	02-Dec-2014	05-Dec-2014	28-Nov-2014	02-Dec-2014	02-Dec-2014	05-Dec-2014			
GRO by GC-FID (S)	05-Dec-2014	07-Dec-2014	05-Dec-2014	28-Nov-2014	07-Dec-2014	05-Dec-2014	07-Dec-2014			
Metals in solid samples by OES	21-Nov-2014	21-Nov-2014	28-Nov-2014	21-Nov-2014	21-Nov-2014	24-Nov-2014	01-Dec-2014			
PAH by GCMS	04-Dec-2014	04-Dec-2014	04-Dec-2014	28-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014			
pH	04-Dec-2014	04-Dec-2014	04-Dec-2014	27-Nov-2014	04-Dec-2014	04-Dec-2014	04-Dec-2014			
Sample description	17-Nov-2014	17-Nov-2014	25-Nov-2014	12-Nov-2014	17-Nov-2014	17-Nov-2014	25-Nov-2014			
Total Organic Carbon	21-Nov-2014									
TPH CWG GC (S)	05-Dec-2014	07-Dec-2014	05-Dec-2014	28-Nov-2014	07-Dec-2014	05-Dec-2014	07-Dec-2014			



Appendix General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 2 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5 -C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

Sample Deviations

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
\$	Sampled on date not provided
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

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

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

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

Appendix D. Further Investigation Technical Note

Technical Note 1350

Subject:	Further Investigation into Reported Oily Sheen in NSE53 (Monitor Phase 53)		
Reference:	5041216-OSW-TN-0001350	Revision:	0
Author:	Charlotte Smith	Checker:	Michelle Lee
Issued to:	Rhys Mander (rhys.mander@aeom.com)	Reviewer:	Mike Poland
Date:	19 th March 2015	Authoriser:	Mike Poland

1. Background

Further to the ground investigation discussed in the Coed Darcy Monitor Phase 53 Validation Report (5041216-REM-RPT-1332), additional investigation was recommended in and around the location of trial pit NSE53 in which an oily sheen was observed on a seepage of groundwater at a depth of 3.0m.

The following Technical Note has been prepared to summarise the recent supplementary investigation, for submission as an addendum to the aforementioned report.

2. Supplementary Works

On 19th March 2015, two trial pits were machine-excavated directly to the east and west of NSE53 (refer to Drawing 5041216-REM-DWG-1997). The objective of these additional works was to confirm the presence of an oily sheen on groundwater, as noted during the recent validation trial pitting.

The eastern trial pit was excavated first and was terminated at a depth of 4.0m in weathered sandstone bedrock (recovered as sandstone gravel and cobbles). No groundwater or seepage was noted at this location during excavation.

Within the western trial pit, a slight seepage was recorded at a depth of 3.5m, also within gravel and cobbles considered to represent weathered sandstone bedrock. On closer inspection, the soils (slightly clayey slightly sandy gravel and cobbles) recovered from the base of the trial pit were found to be wet but with no visual or olfactory evidence of contamination, resulting in a V/O score of 0,0. Breaking apart the sandstone along bedding planes also confirmed no visual or olfactory evidence of contamination.

Selected photographs taken during the recent investigations are attached for information.

3. Conclusions

Due to the absence of any visual or olfactory evidence of contamination noted at this location during the recent works, it is considered possible that an ochreous precipitate may have been mistakenly identified as oily sheen during the previous trial pitting works. Such precipitates are commonly encountered elsewhere within the former refinery within the sandstone bedrock.

In line with the conclusions of Atkins' report 5041216-REM-RPT-1332, Monitor Phase 53 is deemed to be suitable for a residential end use as proposed.

Photo 1: *Arisings from the base of the western excavation with no oily sheen or staining*



Photo 2: *Groundwater seepage in the base of the excavation (reflection of the sky gives a shimmery appearance)*



Appendix E. Photosheet

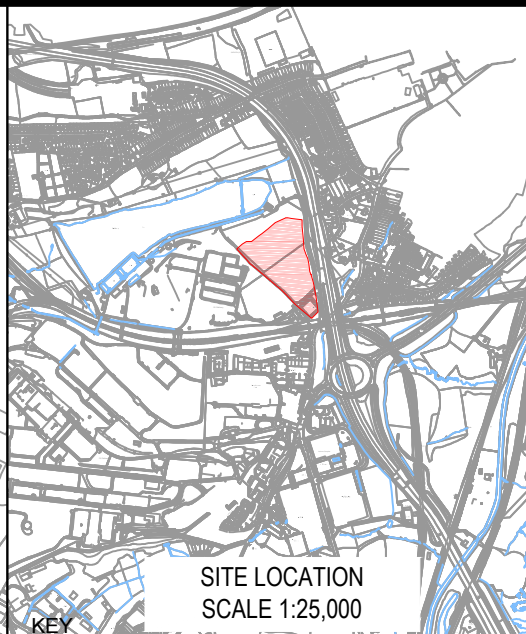
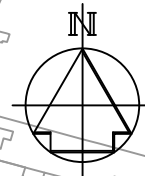


NSE31A Face of excavation. No visual or olfactory evidence of contamination



NSE31A Arisings from excavation. No visual or olfactory evidence of contamination

Drawings



MONITOR BOUNDARY PHASE 53

REVISIONS	Drawn By	Checked By	Date
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PURPOSE OF ISSUE	Rev.	Authorised for Issue	Date
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CLIENT
ST.MODWEN

PROJECT
COED DARCY

DRAWING TITLE
MONITOR BOUNDARY PHASE 53

SCALES	DRAWN	CHECKED	CO-ORD CHECK
1:2500	MJ	CS	
	DATE	DATE	DATE
	06.02.15	06.02.15	

DRAWING NO	SHEET	PLOT DATE
5041216-REM-DWG-1777	A3	09.02.15

REV