CAPITA SYMONDS

Queen Elizabeth Olympic Park Legacy Transformation

FINAL Consolidated Validation Report for PDZ15 (NC20 & NC25) East Marsh Playing Fields

September 2014

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Quality Management

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1. Introduction

OVERVIEW

1.1 This document is a Consolidated Validation Report (CVR) for Planning Delivery Zone 15 (PDZ15) East Marsh Playing Fields prepared on behalf of BAM Nuttall (Nuttall) in support of the discharge of relevant planning conditions associated with the Queen Elizabeth Olympic Park (QEOP) Legacy Transformation Works. The site is located approximately 2.2 km northwest of Stratford town centre to the north of the main QEOP and comprises a roughly rectangular parcel of land approximately 16.8 hectares in size.

1.2 The scope of the Transformation Works has been divided into sectional completion areas. A plan showing the site boundary and completion zones is shown on Figure 1.

1.3 Previously the site has undergone remediation for the protection of human health by the Olympic Delivery Authority (ODA) projects as part of the Operational Areas Projects and prior to the Olympic Games. This has been based on an assumed Olympic land use as an accreditation checking area and a transport mall (car park).

1.4 Remediation design, implementation and validation have previously been prepared for the site by the ODA projects and the information listed below has been utilised (and referenced) in the preparation of this document.

- Atkins PDZ15: Contamination Assessment Position Paper [Ref.1].
- Nuttall PDZ15: Remediation Method Statement [Ref.2].
- Nuttall PDZ15: Validation Report [Ref.3].

1.5 The primary scope of works for the Legacy Transformation Works (the "Transformation Works" hereafter) involves the subsequent alteration of the QEOP from the Olympic Games Phase to that required for the Transformation Phase in preparation for the future Legacy land use as the East Marsh Playing Fields (refer to the Nuttall drawing 'Olympic Park Transformation: Changes to Sectional Completion Zones boundaries, dates & scope of works' included within Appendix A). In summary the extent of the transformation Works proposed across the site comprises:

- Site clearance and removal of block paving associated with the temporary Northern Spectator Transport Mall.
- Partial removal of underlying pavement sub-base.
- Placement of subsoil and topsoil.
- Seeding to create the new East Marsh football pitches.
- Mountain bike trail creation.

PURPOSE OF THIS DOCUMENT

1.6 This document has been prepared to support the discharge of LTD.1.12 and LTD.1.13 of the 2007 Facilities and their Legacy Transformation Permission [Ref. 07/90010/OUMODA] PC7 / PPR which verifies the protection and enhancement of remediation works undertaken to date, and the control of imported soils to site (refer to Table 2.1. Relevant Remediation Legacy Transformation Conditions). Furthermore, and where relevant this validation report will support the discharge of conditions associated with 'slot in' applications for various infrastructure and venues.

1.7 This CVR has been prepared in accordance with the following documents:

- Capita Symonds Ltd 'Approach to the discharge of Legacy Transformation remediation related planning conditions' [Ref.4].
- Olympic Delivery Authority (ODA), 'Logistics Parameters' [Ref.5].
- Capita Symonds Ltd 'Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 [PDZ15} East Marsh playing Field [Ref.6].

1.8 Additional documents utilised in the preparation of this validation report are referenced throughout the report and in Section 8.

1.9 This CVR also provides further detail regarding the outstanding remediation / validation actions from the ODA

projects, specifically the ODA Stage 2 CVR. This CVR also details how outstanding actions will be managed post the Transformation project.

KEY CONTENTS

1.10 This structure of this Validation Report document is:

- *Planning*: planning context, conditions and key documents.
- Basis of Design: overview of the works completed by previous ODA projects and the outline methodology for addressing outstanding actions and restrictions.
- Development of Remediation Design.
- Implementation of Design.
- Earthworks Verification.
- Conclusions / Outstanding Actions.

KEY PARTIES AND RESPONSIBILITIES

1.11 The key parties involved in the Transformation Works are outlined in Table 1.2 below.

Table 1.1 Key Parties

Client	London Legacy Development Corporation (LLDC) (formerly OPLC)
Landowner	London Borough of Hackney
Client's Project Management Partner	MACE
Client's Supervisor	Atkins
CDM Coordinator	Atkins
Principal Contractor (Post Games 'Bump Out')	London Organising Committee for the Olympic Games (LOCOG)
Principal Contractor (Transformation)	BAM Nuttall Ltd
Contractors Designer (including remediation)	Capita Symonds Ltd
Key Nuttall Subcontractors: ▪ Soft Landscaping ▪ Chemical testing laboratory ▪ Geotechnical testing laboratory ▪ Unexploded Ordnance ▪ Sports ground contractors	 Frosts Landscape Construction Ltd WSP Environmental Ltd BAM Ritchies MACC International (standby for on-site support if required) Agripower
Planning Authority	London Borough of Hackney (formerly ODA PDT)
Key Stakeholders	Environment Agency

PROGRAMME OF WORKS

1.12 Start and completion dates as per the Completion Zone periods are summarised in Table 1.2 below.

Table 1.2 Key Earthworks Completion Dates

Completion Zone	Work Description	Works Start Date	Earthworks Completion Date
NC20	Site clearance	07/11/2012	03/05/2013
NC25	Excavation of tree pits	18/02/2013	01/04/2013
	MTB Trails construction	01/07/2013	15/08/2013
	Deconstruction of Temporary Bridge L01T	10/05/2013	16/08/2013

2. Planning

PERMISSIONS

2.1 The Enabling Works, Follow-on Projects and subsequent Legacy Transformation Works are supported through the permissions detailed below comprising the consented scheme.

- **2007 Site Preparation Permission [Ref. 07/90011/FUMODA]**: to provide a development platform for construction and operation of venues and infrastructure associated with 2012 Olympic games and Legacy development where known; and,
- **2007 Facilities and their Legacy Transformation Permission [Ref. 07/90010/OUMODA]**: comprising works for the development of the venues, facilities and other infrastructure necessary for the Games and post games transformation.

LEGACY TRANSFORMATION CONDITIONS

2.2 The relevant remediation conditions attached to the Legacy Transformation permission (LTD) are detailed in Table 2.1 below.

Table 2.1 Relevant Remediation Legacy Transformation Conditions (07/90010/OUMODA)

Condition	*Title*	*Description*
LTD.16	Protection and Enhancement of Remediation	Before 31 December 2012 a method statement shall be submitted to the Local Planning Authority for approval indicating how the integrity of the remediation measures installed for the Olympic development will be maintained and any necessary enhancement or alterations to those measures are to be installed. This condition may be discharged on a Legacy Transformation Work Zone basis.
LTD.1.12	Remediation Monitoring	Approved post-remediation monitoring and maintenance of the remediated land shall continue as set out in the validation reports until such dates or events as are approved by the Local Planning Authority.
LTD.1.13	Unexpected Contamination	If at any time during the construction of the Legacy Transformation development contamination is encountered which was not previously identified or treated or has been brought to the surface by construction activity construction work in that Construction Zone shall not proceed (except to the extent that it would not further disturb that contamination) until a Remediation Change Note containing an assessment of that contamination and a scheme and timetable to contain treat or remove it has been submitted to and approved by the Local Planning Authority and any necessary remediation has been carried out.
LTD.1.14	Quality of Imported Fill	No soils or infill materials (including silt dredged from watercourses) shall be imported onto the Site until it has been satisfactorily demonstrated that they present no risk to human health, planting and the environment. Documentary evidence to confirm the origin of all imported soils and infill materials supported by appropriate chemical analysis test results shall be submitted to and approved by the Local Planning Authority prior to that import. The import onto the Site of material classified as waste is only acceptable with the prior approval of the Local Planning Authority.

LEGACY TRANSFORMATION: KEY DOCUMENTS SUBMISSIONS

2.3 A summary of the key documents to be submitted with respect to the discharge of LTD conditions is provided below in Table 2.2. The Transformation RMS and RIA were submitted prior to the commencement of the Transformation Works. The Consolidated Validation Reports have been prepared and issued on a Planning Delivery Zone (PDZ) basis following completion of the Transformation construction phase works.

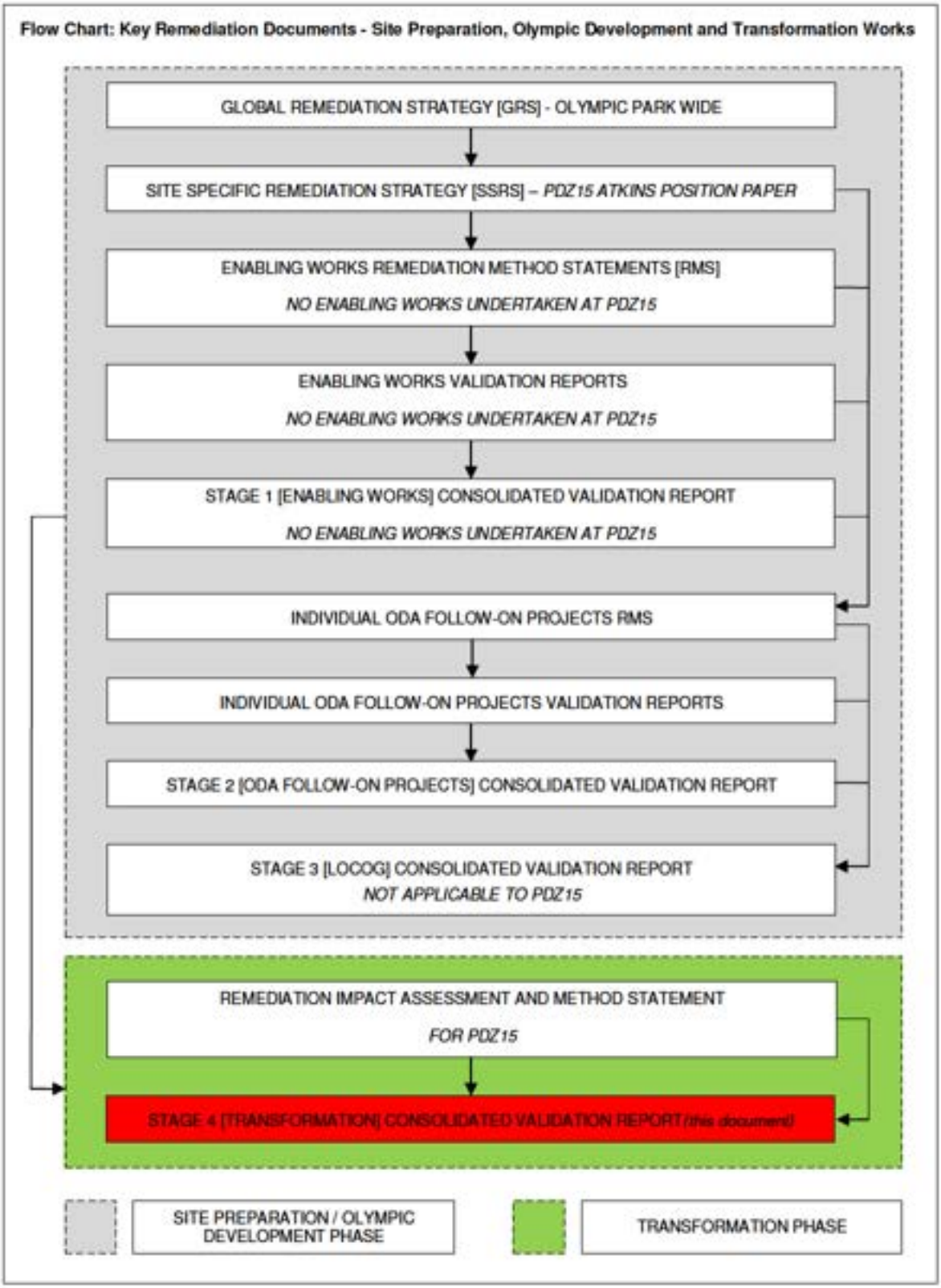
Table 2.2 Key Documents, Coverage and Relevant Legacy Transformation Condition

Condition	*Planning Ref*	*Title*	*Document required for Discharge*	*Status for PDZ5 at time of issue*
LTD.16	07/90010/OUMODA	Protection and Enhancement of Remediation	Remediation Impact Assessment and Method Statement	Not Discharged
LTD.1.12	07/90010/OUMODA	Remediation Monitoring	Consolidated Validation Report	Not Discharged
LTD.1.13	07/90010/OUMODA	Unexpected Contamination	Consolidated Validation Report	Not Discharged
LTD.1.14	07/90010/OUMODA	Quality of Imported Fill	Consolidated Validation Report	Not Discharged

2.4 The proposed approach generally follows that undertaken for the Site Preparation and Olympic Development, with the approach being presented in the flow chart below. For completeness, the document titles relating to the Transformation Works have been provided in Figure 2.1 below to demonstrate their relationship to the existing documentation.

2.5 There are no additional Slot-in Conditions for the Transformational Works at PDZ15.

Figure 2.1 Key Remediation Document Flow Chart



3. Basis of Design

BACKGROUND

3.1 The site has been developed by the ODA projects as the Northern Spectator Transport Mall (NSTM) covering the northern, southern and western part of the site. An accreditation checking area comprises the south western corner. Land bridge (L01) has been constructed, which spans Ruckholt Road and connects to the main QEOP. These works have taken place in two stages:

- *ODA Follow-on Projects*: consisted of the Operational Areas Northern Spectator Transport Mall and the adjacent land bridge L01.
- *LOCOG Overlay Works*: preparation of the Site for the Games with temporary overlay areas and subsequent removal post Games (Bump Out).

3.2 To facilitate the QEOP development in advance of the London 2012 Olympic and Paralympic Games, a programme of remediation has been undertaken by the ODA Follow-on Projects to control or mitigate identified risk to human health and controlled waters associated with land contamination. PDZ15 was assessed not to require specific remediation to facilitate the Olympic land use and as such earthworks were primarily limited to placement of a marker layer at the original ground level (overlying the former pitches) overlain by imported virgin quarry stone and block pavers to form the temporary Northern Spectator Transport Mall. In addition, minor utility installation was undertaken and small areas of soft landscaping were constructed using imported topsoil.

3.3 Following the completion of the ODA projects prior to Olympic Games, the QEOP was handed over to LOCOG to host the Olympic Games.

3.4 Post Games, the 'Bump Out' phase comprises the removal of the Games phase temporary accommodation units by LOCOG, such that they represented the condition received from the ODA. This phase of work commenced post Games until 24th November 2012, when Nuttall become the Principal Contractor for the QEOP. As part of the phased handover from LOCOG, Nuttall become responsible for managing security and logistics on 22nd October 2012, in advance of the formal handover on 24th November 2012.

3.5 On completion of the Transformation work the site will be returned to the London Borough of Hackney, with the site having been returned to its original use as sports playing fields.

EARTHWORKS TERMS

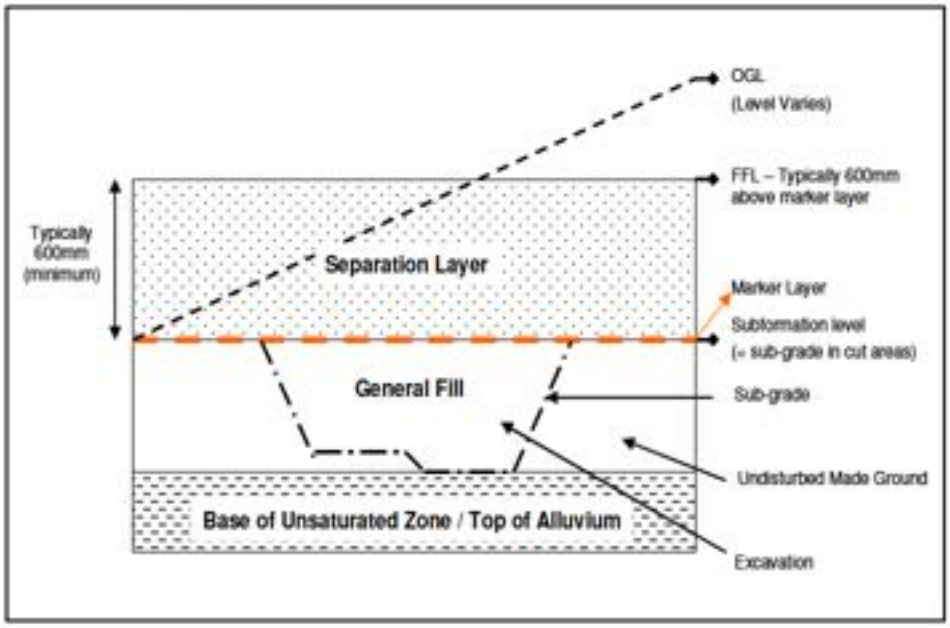
3.6 A definition of the earthworks terms and abbreviations used at the QEOP is provided below.

- **Original Ground Level (OGL)**: Ground levels prior to development of the QEOP (i.e. prior to the ODA Enabling Works project).
- **Final Finished Level (FFL)**: The design level of the completed Transformation development.
- **Human Health Separation Layer (HHSL)**: This comprises unbound materials placed above the marker layer constructed for the protection of human health, or alternatively comprises a layer of hardstanding (where agreed with the Planning Authority). The minimum required thickness of the separation layer will vary depending upon the end use of the site and whether the materials at the site will remain post Olympics, but is typically a minimum of 600 mm thick.
- **Sub-formation**: The highest level of cut or fill beneath any materials placed to provide a HHSL and marked by a brightly coloured marker layer. In areas of cut this may coincide with the sub-grade.
- **Marker Layer**: A brightly coloured (typically orange) geotextile or geogrid laid over the sub-formation in order to act as a visual warning to distinguish the interface between the separation layer and the underlying general fill / undisturbed ground (sub-grade).
- **Sub-grade**: The existing level, after removal, if required, of any geotechnically or chemically unsuitable material in areas to receive fill and the lowest level of excavation in areas of cut (this may coincide with the sub-formation). The sub-grade will always be material undisturbed by the QEOP works, this includes taking into account works undertaken by previous ODA projects.

- **General Fill**: Applies to any fill materials placed below the sub-formation / marker layer level, as either backfill to an excavation or to raise the site levels.

3.7 The following Figure 3.1 demonstrates the different layers and description used in the earthworks.

Figure 3.1 Summary of Earthwork Terms



REMEDIATION WORKS PRIOR TO TRANSFORMATION

3.8 The site has been investigated, remediated (where required) and validated by the ODA projects in order to mitigate risks to human health of future site users and to controlled waters based on the approved remediation position paper for the Olympic end use.

3.9 Documentation outlining the approach to remediation and remediation requirements has been prepared cognisant of the Olympic Games Phase as follows:

- *Contamination Assessment Position Paper* [Ref.1]: outlines the remediation strategy applicable to the Site and derived Site Specific Assessment Criteria (SSAC) to be applied to fill materials at the Site.
- *Olympic Park Operational Area, Global Remediation Method Statement* [Ref.7]: outline method statement for works applicable to all Nuttall operational areas confirming the approach to remediation, validation and responsibilities.
- *Site Specific Remediation Method Statement* [Ref.2]: provides more detailed information regarding site specific remedial works.
- *Site Specific Validation Report* [Ref.3]: on completion of the remediation works approved under the 2007 permissions to validate that remediation works have been undertaken in accordance with the position paper and RMS document.

3.10 The remediation works were undertaken to be protective of human health and the general design comprised:

- *Human health*: remediation with respect to protection of site users to support the Olympic Games Phase end use.

3.11 Risk to ecological and built receptors were managed through associated landscaping and built structure design and construction works, which were undertaken by various ODA Follow-on Project.

Human Health

3.12 The evaluation of risk to human health reported in the Atkins position paper indicated that direct exposure to soils was unlikely given the proposed construction of 410mm of sub-base and hard paving (human health separation layer; HHSL) across much of the PDZ15 site area. Risks to human health were therefore evaluated for inhalation of vapour in an indoor and outdoor scenario. The Atkins reported no exceedances of the human health generic assessment criteria from the Made Ground and Alluviium for this scenario.

3.13 The HHSL) was placed across a large proportion of PDZ15 by the previous ODA project, in accordance with the approved remediation design for the QEOP. The separation layer was a minimum of 410 mm thickness[1] across the site as follows:

- 60-80 mm of block paving hard landscaped surface; over,
- 350 mm sub-base imported material comprising select crushed virgin stone.

3.14 This HHSL is constructed using selective material which meets Site Specific Assessment Criteria (SSAC) considered appropriate for the designated end use as defined by the relevant Atkins Position Paper [Ref.1] prepared for the ODA projects.

3.15 A marker layer has been placed at original ground level (approximately 6 m to 7 m AOD) to identify the interface between the HHSL and the underlying material.

3.16 Additionally limited excavations were undertaken across the site as part of site clearance works, security fence and utility installation as follows:

- Locally gravel aggregate and Thanet Sand were used as fill for service trenches.
- Locally soft landscaping areas (in a narrow strip adjacent to the site boundary) utilised SSAC compliant topsoil.

Controlled Waters

3.17 The Atkins position paper outlined the approach and results of Detailed Quantitative Risk Assessment for PDZ15. The approach was based on previous risk assessment undertaken for the adjacent site CZ7a which had a sufficient degree of commonality with the conceptual site model for PDZ15. The risk assessment was developed to take into account the lateral pathway from PDZ15 to the area where a vertical pathway was identified in CZ7a.

3.18 The DQRA performed by Atkins reported eight polycyclic aromatic hydrocarbons (PAH), measured in soil leachate, to exceed the site specific action criteria (SSAC). However, the modelled travel times for seven PAH parameters from the centre to the PDZ to the PDZ boundary were greater than 1000 years and were not considered by Atkins to represent an unacceptable risk. The measured concentrations of pyrene in three soil leachability samples from two locations exceeded the SSAC. The modelled travel times to the PDZ boundary for the pyrene measured in these three samples was less than 1,000 years. Atkins concluded that further action at the two identified locations was not required on the basis that the average pyrene concentration measured in soil leachate samples was less than the applicable SSAC, that the maximum pyrene concentration in the soil leachability tests was of the same order of magnitude as the applicable SSAC and that pyrene was not measured in the groundwater within the River Terrace Deposits at concentrations greater than the groundwater SSAC

3.19 The DQRA performed by Atkins reported aliphatic total petroleum hydrocarbons and three PAH parameters to exceed the SSAC for groundwater. However, the modelled travel times for these parameters was >1,000 years and was not considered by Atkins to represent an unacceptable risk to groundwater in the underlying Chalk.

OUTSTANDING REMEDIATION ACTIONS / WORKS

3.20 Althoughthe ODA has undertaken remediation at PDZ15, there are outstanding actions and restrictions associated with the future use of the site. Nuttall / Capita Symonds have reviewed the CVRs for any

outstanding actions passed to the Transformation contractor and are listed in Table 7.1.

RESTRICTIONS – RETAINED AREAS

3.21 There are areas within the PDZ15 Planning boundary where no works have been undertaken by the ODA as they were beyond the boundary of the Northern Spectator Transport Mall. These areas are defined in the Stage 2 CVR. Works undertaken by Nuttall during the Transformation phase to complete the East Marsh Playing Fields were limited to those shown on Figure 1.

PROTECTED BOREHOLES

3.22 There was one borehole present within the PDZ15 site boundary, located in the centre of NC25, which was labelled for decommissioning. BAM Nuttall completed the decommissioning of this borehole to enable the construction of the human health separation layer. BAM Nuttall has confirmed that the decommissioning work was completed according to the Nuttall Decommissioning and Protection of Retained Boreholes document [Ref.8]. This included removal of the borehole headworks and infilling of the standpipe with bentonite pellets, which were hydrated insitu with clean tap water.

VALIDATION STATUS

3.23 It is anticipated that prior to handover of the QEOP post Games, the ground will be validated by the former ODA projects. The Validation Report for the Site [Ref.3] has been prepared and was issued to and approved by the PDT by Nuttall with reference to the verification of remediation undertaken during Operational Areas project. The subsequent Stage 2 Consolidated Validation Report has also been submitted and approved.

3.24 The LOCOG overlay and subsequent Bump Out works were minimal in PDZ15 and as such no LOCOG Stage 3 CVR was submitted.

4. Development of Remediation Design

4.1 The Conceptual Site Model (CSM) is based on the pollutant linkages identified in the Atkins Contamination Positions Paper, and remediation works undertaken, validated and approved in accordance with the land use adopted under the 2007 Permissions. The CSM is illustrative and provided as Figure 2 and a summary provided below in Table 4.1.

4.2 The CSM in the context of the remediated post Olympic end use (pre Transformation) is summarised below in Table 4.1.

Table 4.1 GCSM: Post Olympic Projects / Pre Transformation Works

Receptor	*Source*	*Pathway*	*Status*	*Pollutant Linkage*
Human Health (End User – Legacy Playing Fields)	Made Ground / Alluvium	Direct dermal contact, ingestion	No chemical exceedances of GAC	No
		Volatile / gas inhalation (indoor / outdoor)	Measurable concentrations of Carbon Dioxide recorded in monitoring wells.	Yes*
	RTD groundwater	Direct dermal contact, ingestion	Provision of a HHSL and marker layer	No
		Volatile / gas inhalation (indoor / outdoor)	Confined by alluvium layer.	No
Groundwater (Chalk Aquifer beneath CZ7a)	Made Ground / Alluvium	Vertical soil leaching to RTD groundwater	Lambeth group underlies site as an aquiclude.	No
	RTD groundwater	Lateral and vertical migration of RTD groundwater	Groundwater direction to east. However no exceedances considered significant	No

Notes
* Appropriate installation gas protection measures where required as part of Follow-on Projects.

4.3 Pollutant linkages have not been identified at the site on the basis of the remediation works undertaken and 2007 Permissions land uses.

HUMAN HEALTH

4.4 The Transformation Works in this area have included modification of the post-Olympic project site levels resulting in the increase of the thickness of the human health separation layer. The human health separation layer is made up of a combination of site won and imported material that is compliant with the appropriate target levels outlined in the RIAMS document. There is therefore not considered to be a risk to human health associated with the site post Transformation Works. Further details are provided in section 5 of this report.

4.5 Atkins performed ground gas monitoring from fourteen boreholes screened in Made Ground, Alluvium, River Terrace Deposits, Thanet Sand and Chalk across the PDZ15 area. The reported concentrations of methane, carbon monoxide and hydrogen sulphide were not measured at explosive limits. Atkins reported that concentrations of methane in one monitoring well and carbon dioxide in three monitoring wells exceeded the Building Regulations action levels. Atkins concluded that further gas risk assessment may be appropriate for any enclosed spaces and appropriate protection measures considered and thus should be considered further during the building construction design phase. The measured ground gas concentrations are not considered to represent a risk to human health given the post-Transformational use of this area as sports pitches.

4.6 The remediated site provides a development platform protective of site users in Legacy end use as detailed in the 2007 Permissions. The provision of the separation layer acts to break the pathway between any residual contamination beneath the separation layer and the end user. Legacy land use is shown on Figure 2.

SURFACE WATER

4.7 The site is underlain by the low permeability Lambeth Group (formerly known as the Woolwich and Reading Beds) which acts to retard the vertical contamination migration to the underlying principal Aquifer in the Upper Chalk. Notwithstanding groundwater flow is to the east towards CZ7a and the Dry Zone (a more permeable unit of the Lambeth Group). Therefore a potential pathway to the underlying chalk aquifer is assessed to be present off-site to the east, via the vertical leaching of potentially impacted soils within the Made Ground / Alluvium into the shallow RTD, and subsequent lateral and then vertical migration of the contaminant through the more permeable Lambeth Group.

GROUNDWATER

4.8 The shallow groundwater within the Made Ground and the Secondary Aquifer (River Terrace Deposits (RTD) has not been considered as a sensitive receptor in its own right. This position was agreed for the site with the Environment Agency as part of the consultation for 2007 Permissions. The RTD aquifer is however a potential pathway to lateral and vertical migration of groundwater.

4.9 The majority of the QEOP site is underlain by the low permeability Lambeth Group (formerly known as the Woolwich and Reading Beds) including PDZ15. A potential pathway to the chalk aquifer has been identified from the lateral migration of shallow groundwater within the RTD towards CZ7a where a “dry zone” is present (area where there is no RTD groundwater due to the absence of an impermeable Lambeth group in CZ7a). This pollutant linkage has been assessed in the Atkins Position Paper, which concluded that there was not an unacceptable risk to the chalk aquifer.

4.10 Notwithstanding the above, material imported to the site requires assessment and verification to determine whether the imported material poses a risk to the chalk aquifer via this lateral and vertical migration pathway described above.

5. Implementation of Transformation Works

INTRODUCTION

5.1 For completeness and ease of reading this section outlines the principles for the remediation works, and further outlines the scope of works within PDZ15 and subsequently details the earthworks undertaken within PDZ15.

DEFINITIONS AND PRINCIPLES

Safeguarding Remediation/reinstatement of Protection Measures

5.2 The main requirements for safeguarding remediation undertaken to date are as follows:

- Reinstatement and completion of cover system (marker layer and HHSL) to the designated legacy end use,
- Checking that fill placed as part of the earthworks complies with the appropriate SSAC for its destination where used in the transformation earthworks.

Mitigating measures for contamination migration

5.3 There is a potential risk of contamination migration if the earthworks change the principles of the conceptual model that formed the basis of the original remediation design. This may typically include one of the following:

- Excavations penetrating through impermeable horizons such as the Alluvium; and,
- Creation of a vertical pathway through incorrect decommissioning of boreholes.

Materials Management

5.4 The Transformation development includes re-profiling works within the QEOP following the completion of the Olympic Games in 2012. This was achieved largely through the excavation and re-distribution of site-derived soils, minimising the requirement for import of materials. A Materials Management Plan (MMP) has been developed in accordance with the CL:AIRE Code of Practice. A review of the MMP and supporting documentation and regulatory approvals will be undertaken by an independent Qualified Person, whom if satisfied that the appropriates steps have been followed will make a 'declaration' to the Environment Agency prior to works commencing at the site.

5.5 The MMP includes the following:

- Earthworks model.
- Stockpile register (which is continually updated).
- Materials tracker (which is electronically updated).
- BAM Materials Management Protocol.
- Permit to Proceed Protocol.

Permit to Proceed Protocol

5.6 The Permit to Proceed Protocol will be implemented to ensure subsurface excavation is appropriately managed and in particular to control excavation below the marker layer and protect the integrity of the separation layer. The Permit to Proceed Protocol will be based upon the Atkins Permit to Proceed document [Ref.9] . Completed Permits are provided in Appendix C and include the following:

- Details of the work to be undertaken.

- Detail of any precautions required (including protection of active monitoring boreholes).
- State that all foreseeable hazards have been noted.
- State the control measures to be implemented including reinstatement of marker layer.

5.7 The integrity of the separation layer will be maintained in respect of:

- Its chemical quality as defined by the applicable SSAC in accordance with the relevant SSRS and any subsequent agreed amendments (presented in Appendix D).
- Integrity of marker layer.
- The appropriate / agreed depth of cover.

Excavated Materials

5.8 All excavation works have been completed in accordance with the 'Permit to Proceed Protocol' and excavation, supervision and verification works were carried out under the control of a suitably experienced Verification Engineer.

5.9 Excavated materials were segregated at the point of excavation based upon their remediated status and SSAC as follows:

- HHSL - above marker layer materials (AML).
- General Fill - below marker layer materials (BML).

Fill Materials

5.10 Materials used for backfill are derived from sources within the QEOP wherever practical. The integrity of site-won excavated material will be maintained by segregation of the material according to its chemical and geotechnical properties and the strata from which it was excavated. Where there is a shortage of suitable site won materials, imported materials will be utilised as required. Further details regarding the import of fill materials are included in the site-wide Atkins 'Quality of Imported Fill – Framework' [Ref 10]

5.11 The deposition of fill will be undertaken in accordance with a separate geotechnical and horticultural Earthworks Specifications and detail the following:

- General requirements for earthworks.
- Requirements for acceptability and testing of earthworks materials.
- Requirements for dealing with Class U1B and Class U2 unacceptable materials.
- Requirements for excavation, deposition and compaction.
- Preparation and surface treatment of sub-formation, capping and formation.
- Topsoil requirements.

Materials Tracking

5.12 An on-site materials tracking system was used by Nuttall to track each material movement called 'Pod Father'. Pod Father tracked all material movements to and from each completion area, listing the origin and destination of each material movement. A summary of both material moved in (fill) and material moved out (cut) of each completion area is appended to the Final PTP and Includes the following information:

- The source and destination of materials.
- The description of the materials.
- The date of the material movement.
- Volumes of material moved based on the number of loads.

5.13 Pod Father also tracks material imported or exported from the QEOP. The standard delivery and duty of care forms to record the movements of the loads are held by Nuttalls.

Stockpile Management

5.14 Temporary stockpiles of excavated materials were constructed to reduce rainwater infiltration and the release of

odours or dust. This was by either:

- securely covering; or,
- shaped to and compacted/sealed. In dry weather excessive dust will be controlled by water mist suppression.

5.15 If the water from the heap potentially contaminated then:

- The stockpile will be constructed on an impervious surface.
- Bunds will be provided to catch the contaminated run-off.

5.16 Stockpiles were sited to be clear of waterways and public places where practical.

5.17 A stockpile register is included with the PODFather material tracking system and is reported in the PtP for each Completion Area.

Waste Management

5.18 All off-site management of contaminated and surplus material will be undertaken within the framework of the MMP and in accordance with Environmental Permitting Regulations (England and Wales) 2010 and duty of care for waste, to a suitably permitted facility, by a suitably registered carrier.

Licensing and Other Permits

5.19 Licences and other permits for works undertaken by Nuttall were controlled by a site-wide 'Permits, Licences and Consents schedule' (Appendix E), which lists the documents that may be needed during the construction of the works. The licences/permits which were mainly used were:

- Registration of waste carriers, use of consignment notes and waste transfer notes.
- LAPPC Part B Permit for crushing and screening, where required.
- Materials Management Plan (MMP).

TRANSFORMATION WORKS IN PDZ15

HHSL

5.20 The completion of the HHSL within the PDZ15 site, reported in this Validation Report, predominantly comprised the removal of the temporary hardstanding finishes and the build up of soft landscaping finishes which make up the HHSL. The temporary hardstanding finish for the Olympic mode comprised the placement of a marker layer at the original site level and the placement of the temporary development platform that comprised of approximately 350 mm of imported aggregate sub-base and finished with brick paving.

5.21 The scope of the Transformation Works in PDZ15 included the removal of the upper 300mm of material comprising the brick paving surface and partial removal of the sub base. Approximately 110 mm of the sub-base deposited during the ODA project and the marker layer was retained. The HHSL was then made up by the placement of approximately 300 mm of sub-soil from the location of the former warm up track excavation plug tunnel (Area CZ3b). An assessment of this material, based on previous validation data, was carried out to confirm its compliance prior to import and insitu verification samples were undertaken as detailed in Section 6. Approximately 200mm of topsoil, imported from an offsite source, was placed over the subsoil.

5.22 Other minor works including the construction of MTB trails and the excavation of tree pits was also carried out. All imported/placed material was compliant with the SSACs and verified accordingly.

5.23 The Transformational Works to deconstruct the temporary bridge F01T included lifting off the steel structure and dismantling for transportation and removal from the site. The work did not involve cut and fill operations in the bridge abutment or disturbance of HHSL or marker layers. In addition, Nuttall have indicated that there were no pollution incidents or works undertaken that could cause cross-contamination of the HHSL during the dismantling work. These works are therefore not referenced further in this report.

General Fill

5.24 No general fill material was placed at the site as part of the Transformation Works.

Safe Guarding

5.25 The partial removal of the upper 300mm of HHSL (block paving and granular sub-base) on PDZ15 (NC20) and covered by this Validation Report did not extend below the marker layer. The HHSL construction was completed to the specification indicated in Section E3.1 of the Capita Symonds Ltd report - Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 (Ref 6). The specification did not include the inclusion of an aggregate break layer. It was not considered necessary to include an aggregate break layer below the subsoil and topsoil used to construct the sports pitches when considering the configuration of planting, groundwater levels and soil types.

5.26 The works undertaken in PDZ15 (NC25) included the excavation of thirty-seven tree pits to a depth of 0.8m below ground level and excavation of MTB trails to a maximum depth of 250mm. The NC25 area is outside of the area remediated as part of the ODC Project. Therefore no marker layer was previously installed in this area and no new marker layer was installed during the construction of the MTB trails and excavation of tree pits.

Mitigation

5.27 None of the excavations in NC25 or the tree pits extended to the depth of the Alluvium and therefore have no impact on the potential of vertical migration of perched groundwater to the underlying River Terraced Gravels.

Restrictions, Retained Areas & Residual List

5.28 Transformation works in the west of the site extended into the PDZ15 retained area. This work involved the creation of tree pits and a footpath traversing the site lengthways from north to south. The location of the works is detailed in Figure 4 Retained Areas.

Radiological Material or Unexpected Contamination

5.29 BAM Nuttall site personnel and the observations made by Capita staff indicate that no unexpected contamination was encountered in the area covered by this report during the Transformation works.

5.30 There was no requirement to monitor radioactivity in PDZ15 during the transformation works based on the findings of the previous enabling works.

COMPLETION AREA SPECIFIC EARTHWORKS

5.31 The Transformation works have been zoned into completion sub areas. Excavation works in each of the completion areas have been managed by the Permit to Proceed (PtP) and earthworks and material tracking movements are recorded where material moves between completion zone. Below is the scope of earthworks in each completion zone.

5.32 Full details showing a summary of the earthworks for each completion area is shown on the three PTP documents prepared by BAM Nuttall and signed off by LLDC Permitting Team. Completed permits include volumes of cut and fill, as built level surveys to demonstrate the thickness of the human health separation layer and material tracking summaries for cut and fill of material moving in and out of each completion zone. A summary of the earthwork volumes for each completion area is summarised in Table 5.1 below. The three PTP documents are included as Appendix C.

Table 5.1 Cut and Fill Summary for each completion area

Development Area	Completion Zone	Task	Cut Above Marker Layer	Cut Below marker layer	Fill Above Marker Layer	Fill Below Marker Layer
PDZ15	NC20	Site Clearance	24,189 m^3	Nil	52,144 m^3	Nil
	NC25*	Tree Pits	533 m^3	Nil	496.3 m^3	Nil
		MTB Trails	120m^3	Nil	250m^3	Nil
Total Material Volumes			24842 m^3	Nil	52,890.3 m^3	Nil

*The NC25 area is outside of the area remediated as part of the ODC project and did not include the installation of a marker layer.

NC20 Earthworks

5.33 The majority of the NC20 area was previously used as the Northern Transporter Mall. This area was completed as hard landscaping during the Olympic phase. This hard landscaping comprised block paving overlying Type 1 gravels totalling 410mm thickness and completed to the legacy soft landscaping standard for the Olympic phase. No further remediation works were required. The Transformation Works comprised the removal of approximately 300mm of block paving and a portion of the Type 1 material. The marker layer and approximately 110 mm of Type 1 fill remained undisturbed.. A further 300mm thickness of AML sub-soil material (33,600 m^3) sourced from the former Olympic Warm Up Track (WUT, CZ3b) excavation plug tunnel was placed above the retained material. The HHSL was finished with 200 mm (18,544 m^3) of imported topsoil which was subsequently seeded. The total thickness of HHSL above the marker layer is therefore 610mm and comprised placement of 52,892.3 m^3 of material. A summary of the cut and fill volumes from the Transformational Works in NC20 are included in Table 5.2 and 5.3 below.

Table 5.2: Summary of NC20 Excavated Volumes

Cut Material	Above Marker Layer	Below marker layer
Cut retained on site	14,053 m^3	Nil
Cut sent off Olympic Park	10,265 m^3	Nil
Total Volumes	24,189 m^3	Nil

Table 5.3: Summary of NC20 Fill Volumes

Fill Material	Material Type	Above marker layer	Below Marker Layer
Fill from Olympic Park Source	Topsoil	1,945 m^3	Nil
	Subsoil	33,575 m^3	Nil
Fill From Outside Olympic Park	Topsoil	16,600 m^3	Nil
	Subsoil	25 m^3	Nil

Fill Material	Material Type	Above marker layer	Below Marker Layer
Total Fill Volumes	Topsoil	18,545 m^3	Nil
	Subsoil	33,600 m^3	Nil

NC25 Earthworks

5.34 The NC25 area is situated to the south-west of the NC20 area and immediately adjacent to the Water Works River. The NC25 area is outside of the former Northern Spectator Transport Mall and comprised soft landscaping with a raised embankment leading to bridge L01 which spans Ruckholt Road and links PDZ15 with PDZ7 to the south-east. Transformation works in NC25 were minimal and comprised the creation of tree pits, a footpath and mountain bike trails ant the removal of the temporary portion of Bridge L01.

Table 5.4: Summary of NC25 Excavated Volumes

Cut Material	Above Marker Layer	Below marker layer
Cut retained on site	653 m^3	Nil
Cut sent off Olympic Park	Nil	Nil
Total Volumes	653 m^3	Nil

Table 5.5: Summary of NC25 Fill Volumes

Fill Material	Material Type	Above marker layer	Below Marker Layer
Fill from Olympic Park Source	Topsoil	44.4 m^3	Nil
	Subsoil	153.4 m^3	Nil
Fill From Outside Olympic Park	Topsoil	255.6 m^3	Nil
	Subsoil	292.9 m^3	Nil
Total Fill Volumes	Topsoil	300 m^3	Nil
	Subsoil	446.3 m^3	Nil

6. Earthworks Verification

INTRODUCTION

6.1 Verification works were required in PDZ15 where fill materials have been placed to complete the Human Health Separation Layer. Brick paving from the Olympic mode was removed and 100 mm of granular imported Type 1 fill and the marker layer was retained. The scope of the Transformation works was to place 300 mm thickness of material from the former Olympic warm-up track area above the retained material followed by 200mm of imported topsoil, which was subsequently seeded.

6.2 No unexpected ground conditions or ground suspected to be contaminated by visual and olfactory means were encountered during the earthworks.

6.3 The following methodology for determining the frequency of verification samples per cubic metre of material was outlined in the Remediation Impact Assessment / Method Statement and issued ahead of the works commencing to the London Borough of Hackney (LBH).

VERIFICATION METHODOLOGY

Sub-grade

6.4 On completion of excavations the base (sub-grade) will be visually inspected for:

- Potential pathways to the lower strata such as the presence or absence of any boreholes / wells etc. which if encountered shall be reported to the Project Manager and decommissioned in accordance with the appropriate guidance.

Fill Materials

6.5 The thicknesses of HHSL deposited on PDZ15 was undertaken using a mechanical excavator fitted with ground positioning survey (GPS) equipment and a laser guided blade. This instrumentation enabled the operator to spread the imported fill materials accurately to a specific thickness. The GPS equipment did not record the final levels of each layer of deposited material and Nuttall were not contracted to collate the level data. However, Nuttalls confirm that the levels conform to those specified in Section E3.1 of the Capita Symonds Ltd "Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 [REF 6].

6.6 Sampling and testing of the material to be placed in PDZ15 is outlined in Appendix I of the PDZ15 RIAMS during QEOP works will be conducted as follows:

- **Imported topsoil / sand**: Given the volume of available data associated with the proposed imported topsoil that demonstrate compliance with the SSAC, this will be sampled in situ at a frequency of 1 sample per 1,000 m^3 as discussed and justified within the import of fill submission included in Appendix H of the PDZ15 RIAMS document.
- **Material Former warm-up track material**: A significant sample dataset exists for the warm-up track material to be utilised within PDZ15. This additional data is presented and evaluated in Appendix E of the Capita Symonds Ltd "Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 [REF 6]. Table 6.1 outlines the number of samples that have already been taken and the additional number of samples that are required to raise the **sampling** frequency to the PPDT frequency of 1 sample per 200 m^3 of material. The sampling frequencies indicated in Table 6.1 were designed considering the estimated volume of fill being approximately 30,000 m^3.

TABLE 6.1: WARM-UP TRACK MATERIAL SAMPLING AND TESTING FREQUENCIES

Category	*No. samples [soil totals]*	*No. samples [leachate]*
In situ samples from warm-up track	41	20
Stockpile samples prior to placement at warm-up track	22	22

Category	*No. samples [soil totals]*	*No. samples [leachate]*
Sample frequency to date	1 sample per 476 m^3	1 sample per 714 m^3
PDT required sample frequency for final validation	1 sample per 200 m^3	1 sample per 1,000 m^3
No. of additional samples required to meet minimum PDT required sampling frequency	87	0
Proposed in situ sampling frequency during placement in PDZ15	1 sample per 345 m^3	1 sample per 2,000 m^3 [reassurance]

6.7 Based on the review included in Table 6.1, in situ reassurance sampling and testing was undertaken during placement of warm-up track material in PDZ15 on the following basis:

- Minimum sampling frequency of 1 per 345 m^3 [soil totals] and 1 per 2,000 m^3 [leachate] based on a proposed import of 30,000 m^3;
- Samples were evenly distributed geographically to provide adequate spatial coverage in the earthworks area; and
- Testing suite for samples will include all contaminants with an applicable SSAC.

6.8 A visual inspection of all loads was conducted by personnel who had been briefed on what to look out for in terms of visual or olfactory indicators of potential contamination. Movements of material between the warm-up track and PDZ15 were tracked. The warm-up track material was segregated from other materials from excavation at the warm-up track to final placement in PDZ15.

General Fill

6.9 No general fill was placed as part of the Transformation Works in PDZ15 East Marsh.

Non compliances

6.10 Where any assessment of existing data and/or reassurance testing detects non compliances against relevant SSACs then statistical assessment shall be undertaken. Should outliers be identified then numerical risk assessment shall be undertaken in accordance with guidance current at the time of assessment in order to identify if the non-compliances form a potential risk.

6.11 Should numerical risk assessment identify a potential risk then excavation of the non-compliant soils shall be undertaken. The excavation shall be advanced in increments of 1 m depth and sampling undertaken as follows:

- 1 soil sample per 10 m length of sidewall for each 1 m depth; and,
- 2 soil samples from the base of the excavation 10 m in diameter (no base samples are required if the pathway for the risk driver for the contaminant of concern is human health dermal contact/ingestion).

6.12 At each increment of excavation, verification sampling shall be repeated for the CoCs identified as exceedance and assessed against the relevant SSAC. This process is to be repeated until the CoCs are compliant.

PDZ15 Verification of Transformation Works

Assessment Criteria

6.13 Appendix E 'PDZ15: Updated Position Paper' of 'Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 East Marsh Playing Fields' specifies the use of the following criteria for materials placed within PDZ15.

- Human Health: CZ6c SSRS (ref: 0241-ENW-NPK-CM-REP-0001); and,
- Controlled Waters: CZ7a SSRS (ref: REP-WYG-CM-CZ7a-XXX-XXX-E-4003).

SAMPLING AND ANALYTICAL TESTING

6.14 A summary of the verification samples collected for PDZ15 is listed below and included in Table 6.2 below:

- A total of 52,144 m^3 of material was placed AML in PDZ15 (NC20). This consisted of a 33,600 m^3 of HHSL sub-soil material and 18,545 m^3 of topsoil. The sources of this material included:
  - 35,520 m^3 sourced from PDZ3 (NC29).
  - 16,625 m^3 imported from outside the Olympic Park.
- A total of 77.8m^3 of topsoil and subsoil was used to infill the tree pits using material sourced from on the Olympic Park. A further 419.5 m3 of topsoil and subsoil material was imported from outside the Olympic Park
- A total of 250m^3 of topsoil and subsoil was used to construct the MTB trail. 120 m^3 of this material was sourced from the Olympic Park and 130 m^3 from outside the Olympic Park.
- A total of 36 soil samples and 12 soil leachability tests (in addition to those described in Table 6.1) were performed from the stockpile of this material at the WUT (PDZ3; NC29),
- A total of 112 samples were taken to validate the material once deposited which includes 3 No. targeted samples of placed material which originated from excavation works in NC25. When these 112 No verification samples are combined with the 63 samples taken as part of the Enabling Works Validation and 36 samples of the material from the warm-up track (total 211 samples), this corresponds to a sampling frequency of 1 sample per 169 m^3 of fill. This meets the required 1 sample per 200 m^3 of fill for subsoil.
- 20 samples were also used to validate the imported topsoil (British Sugar Topsoil) before deposition (17,043 m^3) which is required on a 1 sample per 1,000 m^3 volume;
- A total of 20 samples of the British Sugar topsoil; and
- A total of 3 samples taken of the Sharp sand used for backfill in the drainage runs and incorporated in to the top 25 mm of topsoil to increase the pitches resistance to wear and tear.

Table 6.2: Summary of PDZ15 Sampling Frequency

Source of Material	*Total Volume*	*Number of Samples*	*Sample Frequency*	*Sample Frequency Requirement*
Enabling Works (Existing Data)	35,718m^3	63	1 sample per 169m^3 of material	1 sample per 200m^3
WUT stockpile		36		
In-situ post-placement sampling		112		
Imported Topsoil (British Sugar) & Imported Sharp Sand	17,173m^3	23	1 sample 746m^3 of material	1 sample per 1,000m^3

6.15 Screening tables of the above soils and leachate results are provided in Appendix F and Laboratory Testing Certificates are provided in Appendix G.

ASSESSMENT

MATERIAL

6.16 An assessment of the chemical quality of fill materials was conducted on existing chemical data for the AML material sourced from NC29 (CZ3b) prior to placement across PDZ15 (NC20) This assessment utilised existing validation information from the Enabling Works and compared the data against applicable SSACs relevant to PDZ15 to determine whether the material meets the criteria in the PDZ15 RIAMS (Appendix F). A total of 63 No. samples from NC29 were included in the assessment, which equated to a sampling frequency of 1 sample per 526 m^3 of material based on total fill of 33,174m^3.

6.17 The assessment identified three exceedances of asbestos above the human health SSAC (0.0001%w/w) and one exceedance of Benzo(a)pyrene above the human health SSAC (3.38mg/kg). A decision was taken to exclude these hotspots from the material to be transported to PDZ15. Subsequent to excluding the hotspots, the assessment confirmed that the material sourced from NC29 was compliant with the applicable SSACs for PDZ15.

6.18 A total of 120 m^3 was excavated from works creating a footpath in NC25. The excavated material was stockpiled locally onsite pending the results of the laboratory analysis of two validation samples. The laboratory analysis did not measure chemical parameters above the human health SSAC for PDZ15 indicating this material could be reused as fill along the western NC20 site boundary.

6.19 A total of 135 verification soil samples were collected on NC20. This included of 112 samples of the subsoil imported from NC29, 20 samples of the British Sugar topsoil and 3 samples taken of the Sharp sand used for backfill in the drainage runs and incorporated in to the top 25 mm of topsoil to increase the pitches resistance to wear and tear. A summary of the identified human health and controlled waters exceedances of SSACs from sub-soil samples are provided in Table 6.3 below. The laboratory analysis of the twenty-three samples of topsoil and sharp sand did not measure exceedances of the SSACs and are therefore further evaluation of this material is not required.

6.20 The results of the laboratory analysis of material from the warm-up track material during enabling works included 63 soil samples and 42 soil leachability tests. This additional data is presented and evaluated in Appendix E of the Capita Symonds Ltd "Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 (REF 6).

Table 6.3 Summary of Human Health Soil Exceedances of Subsoil/

Contaminant of Concern	SSAC (mg/kg)	Samples Tested	Locations with Exceedances of SSAC	Exceedance Location	Concentration Exceeding SSAC (mg/kg)	Average Concentration from 112 Samples (mg/kg)
Arsenic	97.2	112	1	cslt-15-31	150	15.88
Lead	616	112	7	cslt-15-12	830	217.40
				cslt-15-46	660	
				cslt-15-87	740	
				cslt-15-93	1,000	
				cslt-15-94	810	
				cslt-15-95	1100	
				cslt-25-113	1200	
Benzo(a)anthracene	19.7	112	1	cslt-17-105	110	2.04
Chrysene	29.5	112	1	cslt-17-105	130	2.46
Benzo(b)fluoranthene	23.4	112	1	cslt-17-105	81	2.04
Benzo(k)fluoranthene	34.44	112	1	cslt-17-105	71	1.63
Benzo(a)pyrene	3.38	112	5	cst5-15-32	4.8	1.92

Contaminant of Concern	SSAC (mg/kg)	Samples Tested	Locations with Exceedances of SSAC	Exceedance Location	Concentration Exceeding SSAC (mg/kg)	Average Concentration from 112 Samples (mg/kg)
				cstl-15-95	3.5	
				cslt-15-99	3.5	
				cslt-17-105	81	
				cslt-25-113	3.9	
Dibenzo(ah)anthracene	3.53	112	1	cslt-15-105	13	0.39
Indeno(1,2,3-cd)pyrene)	13.9	112	1	cslt-15-105	58	1.35

6.21 The detailed results of the human health evaluation of the subsoil material is included as Table F2 (Appendix F). The summary table above indicates that nine chemical parameters were measured at concentrations above the human health SSAC in a limited number of samples. Although these exceedances were measured, the average concentrations of these nine parameters in the overall dataset of 112 samples is well below the human health SSACs.

6.22 Arsenic was measured at a concentration above the human health SSAC in 1 out of 112 samples tested. This single exceedance (150mg/kg) is less than double the human health SSAC (97.2mg/kg). Furthermore, the average arsenic concentration from the dataset (15.88mg/kg) is well below the human health SSAC.

6.23 Lead was measured at a concentration above the human health SSAC in 7 out of 112 samples tested. The measured exceedances ranged between 660mg/kg and 1,200mg/kg and are less than double the human health SSAC (616mg/kg). Furthermore, the average lead concentration from the dataset (217.4mg/kg) is well below the human health SSAC.

6.24 The laboratory analysis measured seven PAH compounds in one single sample (Ref cslt-15-105; benzo(a)anthracene, chrysene, benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene). At the time of sampling this sample was described as 'sandy, clay loam, frequent gravel, asphalt and brick'. The presence of asphalt in this sample may have resulted in the elevated concentrations of PAHs measured in the laboratory analysis of this sample. With the exception of benzo(a)pyrene, no other PAH parameters were measured at concentrations above the human health SSACs. Furthermore, the average concentrations of these parameters in the full dataset of 112 samples were well below the human health SSACs.

6.25 Five samples measured benzo(a)pyrene at concentrations exceeding the SSAC. The measured benzo(a)pyrene concentration from four of the five samples were between 3.5mg/kg and 4.8mg/kg (compared to a SSAC of 3.38mg/kg) and represent marginal exceedances. However, one sample (referenced cslt-17-105) measured benzo(a)pyrene at 81mg/kg and approximately 24 times the SSAC. As described above, this sample also included elevated concentrations of six other PAHs and can potentially be attributed to the presence of asphalt within the sample.

OUTLIERS & SIGNIFICANCE TESTS

6.26 ProUCL 4.1 statistical software has been used to evaluate the results for the nine parameters listed in Table 6.4 from the 112 insitu-post placement samples. The statistical program has indicated that the chemical parameters listed in Table 6.3 from three samples represent potential outliers in the dataset. It is noted that the seven PAH parameters that represent outliers are from the same sample, which is described as containing asphalt.

Table 6.4: Outlier Tests Performed on In-situ post-placement samples

Sample Name	Parameter	Potential Outlier Concentration
CSLT-15-31	Arsenic	150 mg/kg
CSTL-25-113	Lead	1200 mg/kg
CSTL-17-105	Benzo(a)anthracene	110 mg/kg

	Chrysene	130 mg/kg
	Benzo(b)fluoranthene	81 mg/kg
	Benzo(k)fluoranthene	71 mg/kg
	Benzo(a)pyrene	81 mg/kg
	Dibenzo(a,h)anthracene	13 mg/kg
	Indenol(1,2,3-cd)pyrene	58 mg/kg

6.27 The ProUCL software has also been used to evaluate the upper 95% confidence limits (UCL95) in the data. The UCL evaluation results are presented in Table 6.5 and indicate that the calculated UCL95 is below the HH SSAC.

6.28 The calculated UCL95 for benzo(a)pyrene (3.383 mg/kg; including the identified outlier) is the same as the HH SSAC (3.38mg/kg). However, if the single benzo(a)pyrene outlier is removed from the dataset the UCL95 is reduced to 1.33mg/kg and is below the HH SSAC.

Table 6.5: Calculated UCL95 Data

Parameter	UCL Calculation Methodology	UCL95 (mg/kg)	UCL95 with outlier removed (mg/kg)	PDZ15 HH SSAC (mg/kg)
Arsenic	95% Students-t UCL	18.16	15.77	97.2
Lead	95% Chebyshev UCL	300.6	282.9	616
Benzo(a)anthracene	95% Chebyshev UCL	6.405	1.525	19.7
Chrysene	95% Chebyshev UCL	7.488	1.71	29.5
Benzo(b)fluoranthene	95% Chebyshev UCL	5.162	1.727	23.4
Benzo(k)fluoranthene	95% Chebyshev UCL	4.364	1.112	34.44
Benzo(a)pyrene	95% Chebyshev UCL	3.383	1.33	3.38
Dibenzo(a,h)anthracene	95% KM (BCA) UCL	0.627	0.309	3.53
Indenol(1,2,3-cd)pyrene	95% KM (BCA) UCL	2.398	0.941	13.9

6.29 The chemical parameters that have been measured at concentrations above the SSAC are not considered to represent an unacceptable risk to human health in NC20 based on the following:

- No exceedances were measured in the 16,600m^3 of topsoil material and sand imported from outside the Olympic Park.
- Exceedances of arsenic (1 out of 112 samples) and lead (7 out of 112 samples) were less than double the SSAC and the average concentration of these two metals were well below the human health SSAC. Furthermore, the exceedances are not considered statistical outliers and the calculated UCL95 is below the HH SSACs;
- Exceedances of six PAH parameters (excluding benzo(a)pyrene) were measured above the human health SSAC in 1 out of 112 samples. The average concentrations of these six PAHs in the dataset were well below the human health SSAC. The results of the six PAHs in this single sample are considered as outliers and this is considered due to the presence of asphalt in this sample, which is the likely source of these PAH measurements. The ULC95 for these PAHs is below the HH SSAC; and
- Exceedances of benzo(a)pyrene were measured above the human health SSAC in 5 out of 112 samples. The average concentration of benzo(a)pyrene is well below the human health SSAC. The concentrations measured in four of the samples were less than double the SSAC. One sample is elevated above the general dataset, but was measured from a sample containing asphalt. This sample is considered to represent an outlier in the dataset. The inclusion of this result in the dataset results in the UCL95 being the same value as the HH SSAC. However, when removed the UCL95 is below the SSAC.

6.30 The soil results have also been compared to SSAC protective of groundwater (see Section 6.13). The comparison of the soils data against these SSAC indicate that the soil has the potential to leach chemical parameters at concentrations that represent a risk to controlled water in the Chalk aquifer. Table 6.6 summarises the soil concentrations that exceed the Controlled Water SSAC.

Table 6.6 Summary of Controlled Water Soil Exceedances

Contaminant of Concern	Controlled Water (soil) SSAC	Samples Tested	Locations with Exceedances of GAC	Range of Results Exceeding GAC	Average Concentration
Arsenic	20 mg/kg	166	35	21 to 150 mg/kg	16.6 mg/kg
Cadmium	1 mg/kg	166	3	1.1 to 1.74 mg/kg	0.23 mg/kg
Nickel	50 mg/kg	166	1	72 mg/kg	20.5 mg/kg
Lead	450 mg/kg	166	10	470 to 1,200 mg/kg	180.74 mg/kg
Acenaphthylene	1 mg/kg	166	3	1.2 to 8.6 mg/kg	0.26 mg/kg
Naphthalene	5.6 mg/kg	166	1	58 mg/kg	0.63 mg/kg
Acenaphthene	12 mg/kg	166	2	13 & 37 mg/kg	0.64 mg/kg
Fluoranthene	95 mg/kg	166	1	280 mg/kg	3.63 mg/kg
Benzo[a]anthracene	72 mg/kg	166	1	110 mg/kg	1.6 mg/kg
Chrysene	32 mg/kg	166	1	130 mg/kg	1.79 mg/kg
Benzo[b]fluoranthene	16 mg/kg	166	1	81 mg/kg	1.54 mg/kg
Benzo[k]fluoranthene	16 mg/kg	166	1	71 mg/kg	1.77 mg/kg
Benzo(a)pyrene	1.3 mg/kg	166	33	1.4 to 81 mg/kg	1.44 mg/kg
Dibenzo[a,h]anthracene	1.3 mg/kg	166	1	13 mg/kg	0.3 mg/kg
Indeno[1,2,3-cd]pyrene	16 mg/kg	166	1	58 mg/kg	1.01 mg/kg

6.31 The evaluation has indicated four metal and eleven PAH parameters to exceed the soil SSACs protective of controlled water. The chemical parameters that have been measured at concentrations above the SSAC are not considered to represent an unacceptable risk to Controlled Water in NC20 based on the following:

- With the exception of benzo(a)pyrene, the average concentrations from the 112 samples from across the site are well below the SSACs. The average benzo(a)pyrene concentration (1.44 mg/kg) only marginally exceeds the SSAC (1.3 mg/kg).
- Eight of the PAH parameters that exceed the SSAC are from one sample in which asphalt fragments were observed.
- None of the averaged soil leachability tests in Section 6.30 exceed the controlled water SSAC for groundwater.
- The SSAC used were developed for PDZ7 and where the Chalk is not confined by Woolwich & Reading Beds. Therefore, the use of these SSAC criteria for PDZ15 is considered conservative.

6.32 The evaluation of the soil leachability results from thirteen samples of imported topsoil and sharp sand is included as Table F5 (Appendix F). This evaluation did not measure concentrations that exceeded the controlled water SSAC for PDZ15. No further assessment of the imported topsoil and sharp sand is considered necessary.

6.33 The detailed assessment of twenty laboratory soil leachability results from site sourced subsoil samples against controlled water SSACs is provided in Table F3 (Appendix F). A summary of the identified controlled waters exceedances of SSACs from the forty-four soil leachability tests from the material deposited in PDZ15 is included in Table 6.4 below. The evaluation of the soil leachability results indicate only moderate exceedances of the CZ7a controlled water criteria. Furthermore, the average concentration calculated from the forty-four samples are at or below the SSAC.

Table 6.7 Summary of Soil Leachability Exceedances of Controled Water

Receptor	Contaminant of Concern	SSAC	Samples Tested	Locations with Exceedances of GAC	Exceedance Location	Concentration Exceeding SSAC	Average Concentration
Controlled waters (Leachate)	Arsenic	0.03 µg/l	44	1	cslt-15-22	0.075 µg/l	0.008 µg/l
	Lead	0.09 µg/l	44	1	cslt-15-22	0.38 µg/l	0.01 mg/l
	Pyrene	0.008 µg/l	44	2	cslt-15-02	0.01 µg/l	0.0004 µg/l
					cslt-15-04	0.011 µg/l	
	Benzo(b)fluoranthene	0.002 µg/l	44	7	cslt-15-02	0.0065 µg/l	0.0007 µg/l
					cslt-15-33	0.0023 µg/l	
					cslt-15-43	0.003 µg/l	
					cslt-15-73	0.004 µg/l	
					cslt-15-81	0.00121 µg/l	
					cslt-15-22	0.0054 µg/l	
					cslt-15-84	0.0033 µg/l	
	Benzo(a)pyrene	0.001 µg/l	44	7	cslt-15-02	0.0068 µg/l	0.0007 µg/l
					cslt-15-33	0.0037 µg/l	
					cslt-15-43	0.006 µg/l	
					cslt-15-73	0.004 µg/l	
					cslt-15-81	0.0014 µg/l	
					cslt-15-22	0.0048 µg/l	
					cslt-15-84	0.0018 µg/l	
	Dibenzo(a,h)anthracene	0.0001 µg/l	44	5	cslt-15-02	0.0003 µg/l	0.0001 µg/l
					cslt-15-73	0.0002 µg/l	
					cslt-15-81	0.0004 µg/l	
					cslt-15-22	0.0012 µg/l	
					cslt-15-84	0.0004 µg/l	

FURTHER CONTROLLED WATER ASSESSMENT

6.34 The above exceedances of the CZ7a controlled water criteria have been further assessed using SSACs developed by Atkins in their position paper dated January 2011. Atkins undertook a similar screening exercise using the CZ7a values and followed it up by deriving site specific values where exceedances occurred from the initial screen. Atkins derived SSACs for all of the leachate PAH compounds listed in Table 6.5 below.

6.35 The Atkins Position Paper was submitted to the PPDT and approved as part of the QEOP Enabling Works. The assessment is based on the DQRA for the vertical pathway in CZ7a and includes the additional lateral migration from PDZ15 to CZ7a using the Environment Agency's remediation targets worksheet (P20) to model lateral contaminant transport in the RTD groundwater. Atkins raised the following key points in the relation to the modelling approach for PDZ 15 and all these points are still relevant to these verification works:

- use of CZ7a groundwater/leachate Atkins 2011 SSAC as target values for the P20 worksheets;
- plume width at source was considered to be equal to the full width of the site, due to the relatively low sampling density;
- pathway length is considered to be from the centre of the site to a point on the down hydraulic gradient site boundary in the direction of flow;
- the derived Atkins 2011 SSAC are applicable to River Terrace Deposits groundwater in PDZ15 and also to provide a conservative screen for leachate from overlying soils (model does not account for dilution of leachate);
- literature values for contaminant half-lives and partition coefficients were applied within the models;
- "steady-state" conditions were modelled by application of the maximum possible time since contamination entered groundwater; the presence or absence of a detectable concentration at the site boundary (i.e. interface with the dry zone, not the full distance to the receptor) was also noted; and
- P20 models were only set up for COC identified in the GQRA as requiring further assessment.

6.36 The initial exceedances of the C27a controlled water SSACs presented in Table 6.4 have been further evaluated by comparison to the SSAC values derived by Atkins[REF1]. The results of the comparison are presented in Table 6.8 below.

Table 6.8 Comparison of Controlled Water Soil Exceedances in Subsoil Against Atkins Derived SSACs

Receptor	Contaminant of Concern	Atkins 2011 SSAC	Subsoil Samples Tested	Locations with Exceedances of SSAC	Max Concentration
Controlled waters (Leachate)	Arsenic	273 µg/l	20	0	0.075 µg/l
	Lead	593 µg/l	20	0	0.38 µg/l
	Pyrene	12.9 µg/l	20	0	0.011 µg/l
	Benzo(b)fluoranthene	14 µg/l	20	0	0.0065 µg/l
	Benzo(a)pyrene	7 µg/l	20	0	0.068 µg/l
	Dibenzo(a,h)anthracene	0.7 µg/l	20	0	0.0012 µg/l

6.37 The evaluation has indicated that the maximum measured concentrations from the soil leachability tests performed on samples of subsoil are significantly below the SSAC developed by Atkins. The Atkins SSACs are based on modelled travel times of the chemical parameters from the centre to the PDZ to the PDZ boundary. Therefore, although exceedances of the C27a controlled water SSACs (Table 6.4) have occurred for two metal and four PAH parameters, the concentrations are not of sufficient magnitude to represent an unacceptable risk at the site boundary. The reported leachate concentrations are therefore not considered to present an unacceptable risk to the chalk aquifer.

Summary of Verification works

6.38 Verification works have been completed in accordance with the RIAMS, where non compliance samples were encountered supplementary assessment has been undertaken to determine whether the level of risk is acceptable for both future site users and controlled waters.

6.39 This assessment has not measured concentrations of chemical parameters that represent an unacceptable risk to human health or controlled water based on the intended use of the site as sports pitches. Therefore, supplementary remediation works are not considered necessary for PDZ15.

Verification of Outstanding Actions and Restrictions

6.40 There are no outstanding actions or restrictions associated with the Transformational Works undertaken by Nuttalls.

7. Conclusions / Outstanding Actions

7.1 This Consolidated Validation Report has been produced for completion zones NC20 and NC25 within PDZ15 East Marsh Playing Fields. The findings of the report indicate that the Transformation works satisfy the requirements of the PDZ15 RIAMS with regards to the completion of the HHSL. Based upon our assessment of the information available to us, and subject to the conditions stated in this Report, Capita advises that the works undertaken in PDZ15 are suitable for the use of the site as sports pitches and mountain bike trail. Changes to the site layout and use are subject to the restrictions set out in Table 7.2.

7.2 The Transformation works undertaken by Nuttalls in PDZ15 comprised:

- The partial removal of the upper 300mm of material comprising the brick paving surface and partial removal of the sub base across a large area of NC20. Approximately 110 mm of the sub-base deposited during the ODA project and the marker layer was retained and the HHSL made up by the placement of approximately 300 mm of site sourced sub-soil and 200mm of imported topsoil; and
- Construction of MTB trails and the excavation of tree pits in NC25.

7.3 The Planning Conditions associated with the Transformational Works are described in Table 7.1 below. The last column of the table provides information considered sufficient to discharge the conditions.

Table 7.1: Discharge of Planning Conditions (PDZ15)

Condition	*Title*	*Description*	*Mitigation*
LTD.16	Protection and Enhancement of Remediation	Before 31 December 2012 a method statement shall be submitted to the Local Planning Authority for approval indicating how the integrity of the remediation measures installed for the Olympic development will be maintained and any necessary enhancement or alterations to those measures are to be installed. This condition may be discharged on a Legacy Transformation Work Zone basis.	Capita Symonds Ltd have produced a PDZ15 specific "Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 (REF 6). The Transformational Works have been completed in line with this document.
LTD.1.12	Remediation Monitoring	Approved post-remediation monitoring and maintenance of the remediated land shall continue as set out in the validation reports until such dates or events as are approved by the Local Planning Authority.	Nuttalls have been providing continuing post remediation monitoring and maintenance of the site, predominantly including management of the sports pitch turf.
LTD.1.13	Unexpected Contamination	If at any time during the construction of the Legacy Transformation development contamination is encountered which was not previously identified or treated or has been brought to the surface by construction activity construction work in that Construction Zone shall not proceed (except to the extent that it would not further disturb that contamination) until a Remediation Change Note containing an assessment of that contamination and a scheme and timetable to contain treat or remove it has been submitted to and approved by the Local Planning Authority and any necessary remediation has been carried out.	The Transformation works undertaken in NC20 did not penetrate the marker layer installed by the ODA project. Capita did not visually identify previously unidentified contamination during the part-time supervision and sampling works. Furthermore, Nuttall staff have not reported unexpected contamination during the works.
LTD.1.14	Quality of Imported Fill	No soils or infill materials (including silt dredged from watercourses) shall be imported onto the Site until it has been	The Transformation works undertaken in NC20 did not penetrate the marker layer installed

Condition	Title	Description	Mitigation
		satisfactorily demonstrated that they present no risk to human health, planting and the environment. Documentary evidence to confirm the origin of all imported soils and infill materials supported by appropriate chemical analysis test results shall be submitted to and approved by the Local Planning Authority prior to that import. The import onto the Site of material classified as waste is only acceptable with the prior approval of the Local Planning Authority.	by the ODA project. Validation testing of the site sourced sub-soil and imported topsoil did not measure concentrations of chemical parameters that represent an unacceptable risk to human health (based on the sports pitch use of the site) and controlled water.

7.4 The Transformation works undertaken in NC25 included the excavation of thirty-seven tree pits to a depth of 0.8m below ground level and excavation of MTB trails to a maximum depth of 250mm. The NC25 area is outside of the area remediated as part of the ODC Project. Therefore no marker layer was previously installed in this area and no new marker layer was installed during the construction of the MTB trails and excavation of tree pits.

7.5 The supplementary validation sampling and assessment carried out by Capita Symonds, to support the Nuttall PTP applications, verify that the earthworks undertaken provide protection and enhancement of the remediation works initially undertaken as part of the ODA's development of the site..

7.6 It is recommended that this Validation Report is suitable for the discharge of planning condition LTD.1.12, LTD.1.13 and LTD.1.14. Furthermore, the Capita Symonds Ltd PDZ15 specific "Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 (REF 6) is considered suitable for discharging LTD.16.

FURTHER WORKS – RESIDUAL LIST AND ISSUES AFFECTING FUTURE DEVELOPERS

7.7 Table 7.2 below records the outstanding works that were generated from the works undertaken by the ODA that have subsequently been transferred to the legacy phases of redevelopment works. This Table seeks to update similar tables presented in the individual validation reports referenced herein.

7.8 In addition, Table 7.2 records some key aspects for future developers to consider as part of their works. It is further noted that this table does not in any way alleviate the incumbent Project Teams from complying with the full requirements of the remediation documentation, their legal, regulatory and contractual obligations.

Table 7.2: Works for Incoming Projects and Restrictions on Future Works in PDZ15

No.	Title	Site Specific Actions	Action By
		PDZ15	
1	Placement of Marker Layer and HHSL	Maintain HHSL and installation of Marker Layer during future works. Transformation works associated with removal of any structures or hardstanding must also include for the reinstatement of a suitable thickness of HHSL and placement of the Marker Layer (Ref. 36). It is expected that after the Games, transformation of the area back to sports fields will entail the removal of hardstanding but the remainder of the new profile will be left. Topsoil will be added and appropriately mixed with the upper part of the source layer to create the new playing pitch surface. Nuttall has confirmed that the correct procedures were followed with respect to placement of marker layer and HHSL in PDZ15 (NC20 & NC25).	Future land owners / developers
2	Suitable infrastructure design	Future land owners and developers need to consider ground conditions when designing appropriate infrastructure.	Future land owners and developers
3	Suitable methods to protect contamination pathways	Future land owners and developers need to consider protection of contamination pathways as part of their earthworks design. For example where penetration of the Alluvium may occur during deeper works such as piling.	Future land owners and developers
4	Ground gas / vapour assessment	Future land owners and developers need to review requirements for ground gas assessment and potentially protection measures for future structures as part of the design process.	Future land owners and developers
5	Protection of monitoring installations and facilities	There are no monitoring installations retained on PDZ15.	Future land owners and developers
6	Excavation of soils at the Site	Future land owners and developers shall take appropriate health and safety measures to protect workers involved in excavation of soils below the HHSL within the Transformational works site boundary and on the land outside of the Transformational Works boundary but within PDZ15, as indicated on Figure 1. It is likely that a permitting system similar to PTP shall be implemented within the Olympic Park in post-Games mode (Ref. 36).	Future land owners and developers

No.	Title	Site Specific Actions	Action By
7	Risk assessments	Future land owners and developers shall complete appropriate risk assessments with respect to UXO, pathogens, asbestos, radiation and ground gas / vapours when undertaking excavations and / or construction activities below the HHSL within the Transformational works site boundary and on the land outside of the Transformational Works boundary but within PDZ15, as indicated on Figure 1. In addition, future land owners and developers shall be responsible for ongoing invasive species management in accordance with the Invasive Species Protocol (Ref. 37). Refer to capita Symonds 'Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 (PDZ15) East Marsh Playing Fields' November 2012 and appended PDZ15 Position Statement due for assessment due to proposed Transformation land use of playing fields.	Future land owners and developers
8	Future land use	Future land owners and developers shall ensure that areas designated for different land uses are not amended without reassessment of the soil conditions and that the Site is not used for growing edible crops or for private gardens. A change from the current recreational land use will need a reassessment before any change is implemented. Advice should be sought from the Contaminated Land Officer at Hackney Borough Council relating to potential changes in use.	Future land owners and developers

8. References

8.1 The documents referenced within this report comprise the following:

1. Atkins 'PDZ15 Contamination Assessment Position Paper', dated January 2011 (ref. REP-ATK-CM-15Z-OLP-XXX-E-0002).
2. BAM Nuttall 'Olympic Park Operational Areas, PDZ 15: Northern Spectator Transport Mall [NSTM] Remediation Method Statement', dated February 2012 (ref. 7085-SBH-A15-W-MST-0006 rev. C05).
3. BAM Nuttall 'PDZ15 Operational Area: Northern Spectator Transport Mall (NSTM) Validation Report', dated March 2012 (ref. 7085-SBH-A15-W-REP-0005 rev. P02).
4. Capita Symonds Ltd 'Approach to the discharge of Legacy Transformation remediation related planning conditions', dated March 2012 (ref. LC401-APK-XXX-CM-REP-0001 revision P02).
5. Olympic Delivery Authority (ODA), 'Logistics Parameters', dated 4th July 2011 (ref. 0001-LTR-PWD-J-REP-0001 revision P03).
6. Capita Symonds Ltd "Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 [PDZ15] East Marsh Playing Fields" dated November 2012 (ref.LC401-LCI-EMF-CM-MST-P01).
7. BAM Nuttall 'Olympic Park Operational Areas: Global Remediation Method Statement', dated February 2012 (ref. 7085-SBH-OSA-W-MST-0006-C03).
8. BAM Nuttall 'O&M Manual: Decommissioning and Protection of Retained Boreholes', dated 27th September 2011 (ref. MST-ENL-CE-ZZZ-OLP-SP1-E-0006).
9. Atkins 'Permit to Proceed Protocol: Protection of Remediation Works on the Olympic Park, dated July 2009 (ref. PRO-ATK-CM-ZZZ-ZZZ-ZZZ-E-0003 Rev. 10).
10. Atkins 'Quality of Imported Fill – Framework', dated October 2009 (ref. 0251-ENW-ATK-LET-00328).

Appendix A. Drawings & Figures

Security Classification Protect

N

METRES

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SCALE

PDZ15

NC20

NC25

NC22

NC5

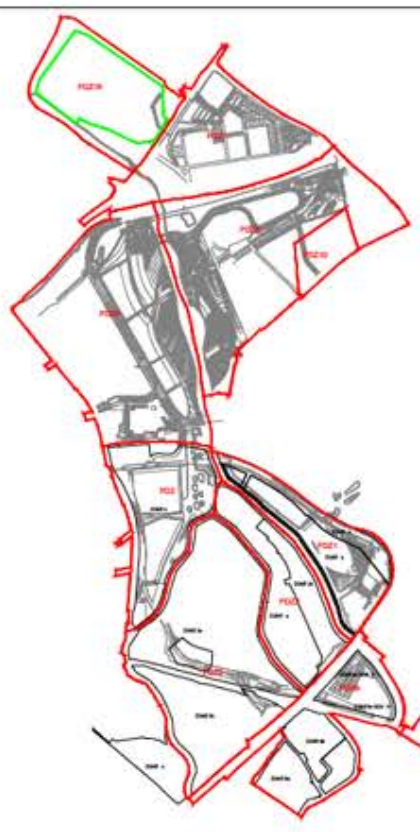
NC49

NC21

NC44

NC4

Vicinity Map



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Do not scale this drawing.

Notes:

PDZ Boundary
Completion Zone Boundary
Site Boundary

Safety, Health and Environment Information

In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following risks and information

Construction	
Dismantling / Demolition (Future)	

For information relating to Use, Cleaning and Maintenance see the Health and Safety File. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Creator

Prepared by bam nuttall www.bamnuttall.co.uk

On behalf of the LLDC

Drawing Title

PDZ15
Figure 1 Site Boundary

Project Title

QEOP Legacy Transformation

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Date	Scale	Size
04/ 10/ 13	Scale Bar Shown	A3
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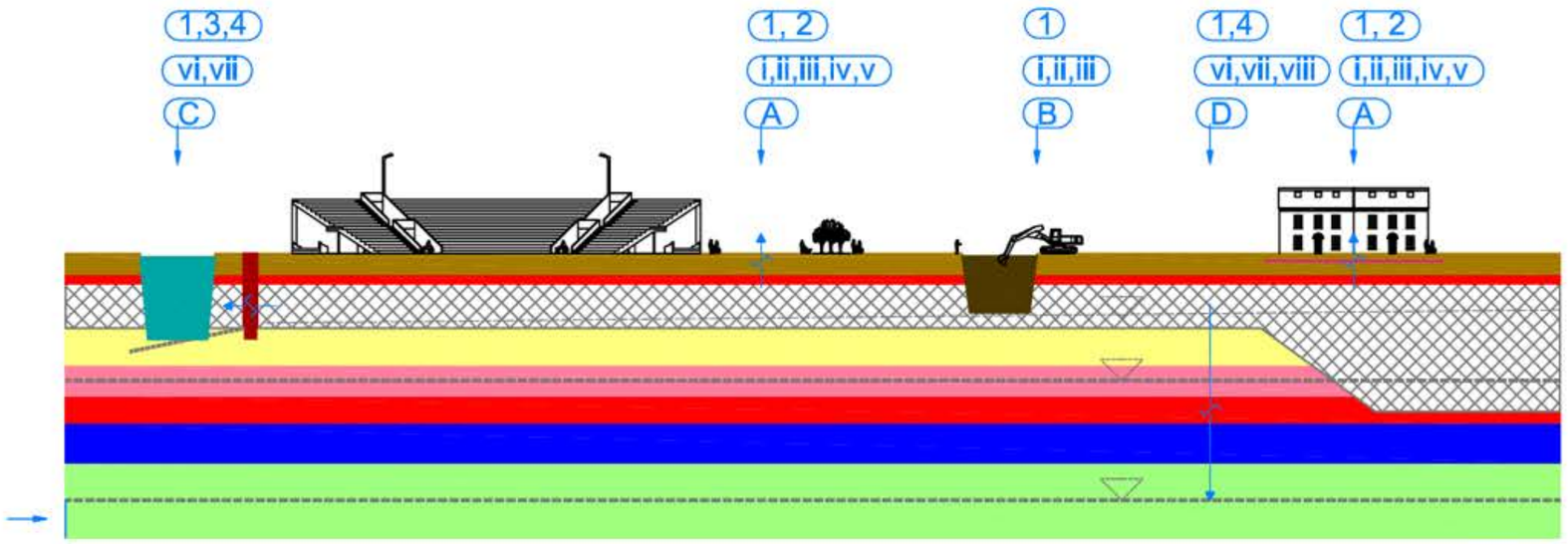

KEY

Geology
- Separation Layer
- Marker Layer
- Made Ground
- Alluvium
- River Terrace Deposits
- Lambeth Group
- Thanet Sands
- Chalk

Source
1 Contaminated Soil
2 Soil Gas
3 Contaminated Perched Water
4 RTD Groundwater

Pathway
i Dermal Contact
ii Ingestion
iii Particular Inhalation
iv Soil Vapour Inhalation (outdoor)
v Volatile Gas Inhalation (indoor)
vi Vertical Soil Leaching
vii Lateral Migration
viii Vertical Groundwater Migration

Receptor
A Site User (Legacy)
B Construction Worker (Transformation/Legacy)
C Surface Waters
D Chalk Aquifer

General Features
- Water Table
- Cut off Wall
- Broken Pollutant Linkage (e.g. source removal/ reduction, pathway removal/modification)
- Gas Protection Measures

No.	Description	Appr.	By	Date/M/Y
Rev	Description	Drawn	Chk'd	Date

Safety, Health and Environment Information

In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following risks and hazards:

Construction	CL CL CL
Dismantling / Demolition (Future)	CL CL CL

For information relating to Use, Cleaning and Maintenance see the Health and Safety File. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Creator
Prepared by
Organisation
On behalf of the LLDC

Drawing Title
Illustrative Global Conceptuall Conceptual Site Model

Project Title
Project

Drawn	Checked	Approved
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Date	Scale	Size
15-Jun-12	NTS	A1
Purpose of Drawing		Suitability
Purpose of Drawing		X#

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Security Classification Protect

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METRES

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SCALE

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PDZ15

NC20

MBHCZOLY2-101

NC25

MBHCZ7ar-00

NC22

NC5

NC49

MBHCZ5a-541

NC44

NC21

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Vicinity Map

PDZ Boundary
Completion Zone Boundary
Site Boundary
Retained Boreholes
Boreholes decommissioned

Rev	Description	Drawn	CHKD	Date
P01	For Information	FC	AOM	xxx

Do not scale this drawing.

Notes:

Safety, Health and Environment Information

In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following risks and information

Construction	
Dismantling / Demolition (Future)	

For information relating to Use, Cleaning and Maintenance see the Health and Safety File. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Creator

Prepared by bam nuttall

On behalf of the LLDC

Drawing Title

PDZ15
Figure 5
Decommissioned & Retained Boreholes

Project Title

QEOP Legacy Transformation

Drawn	Checked	Approved
FC	AOM	DS
Date	Scale	Size
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Purpose of Drawing		Suitable by
FOR INFORMATION		S2
Drawing No.	Sheet.	Rev.
		P01

Security Classification Protect

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METRES

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SCALE

PDZ15

NC20

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Vicinity Map

Rev	Description	Drawn	AOM	Date
P01	For Information	FC	AOM	xxx

Do not scale this drawing.

Notes:

- PDZ Boundary
- Site Boundary
- Residual Exceedance
- FOP Exceedances

Safety, Health and Environment Information

In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following risks and information

Construction	
Dismantling / Demolition (Future)	

For information relating to Use, Cleaning and Maintenance see the Health and Safety File. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Creator

Prepared by bam nuttall www.bamnuttall.co.uk

On behalf of the LLDC

Drawing Title

PDZ15
Figure 6
Residual Exceedances

Project Title

QEOP Legacy Transformation

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Purpose of Drawing		**Suitability**
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Security Classification Protect

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SCALE

PDZ20

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Vicinity Map

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Do not scale this drawing.

Notes:

- PDZ Boundary
- Completion Zone Boundary
- CZ6 Boundary
- Site Boundary
- Extent and Level of Marker Layer

Safety, Health and Environment Information

In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following risks and information

Construction	
Dismantling / Demolition (Future)	

For information relating to Use, Cleaning and Maintenance see the Health and Safety File. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Creator

Prepared by bam nuttall

On behalf of the LLDC

Drawing Title

PDZ15
Figure 8
Extent and Level of Marker Layer

Project Title

QEOP Legacy Transformation

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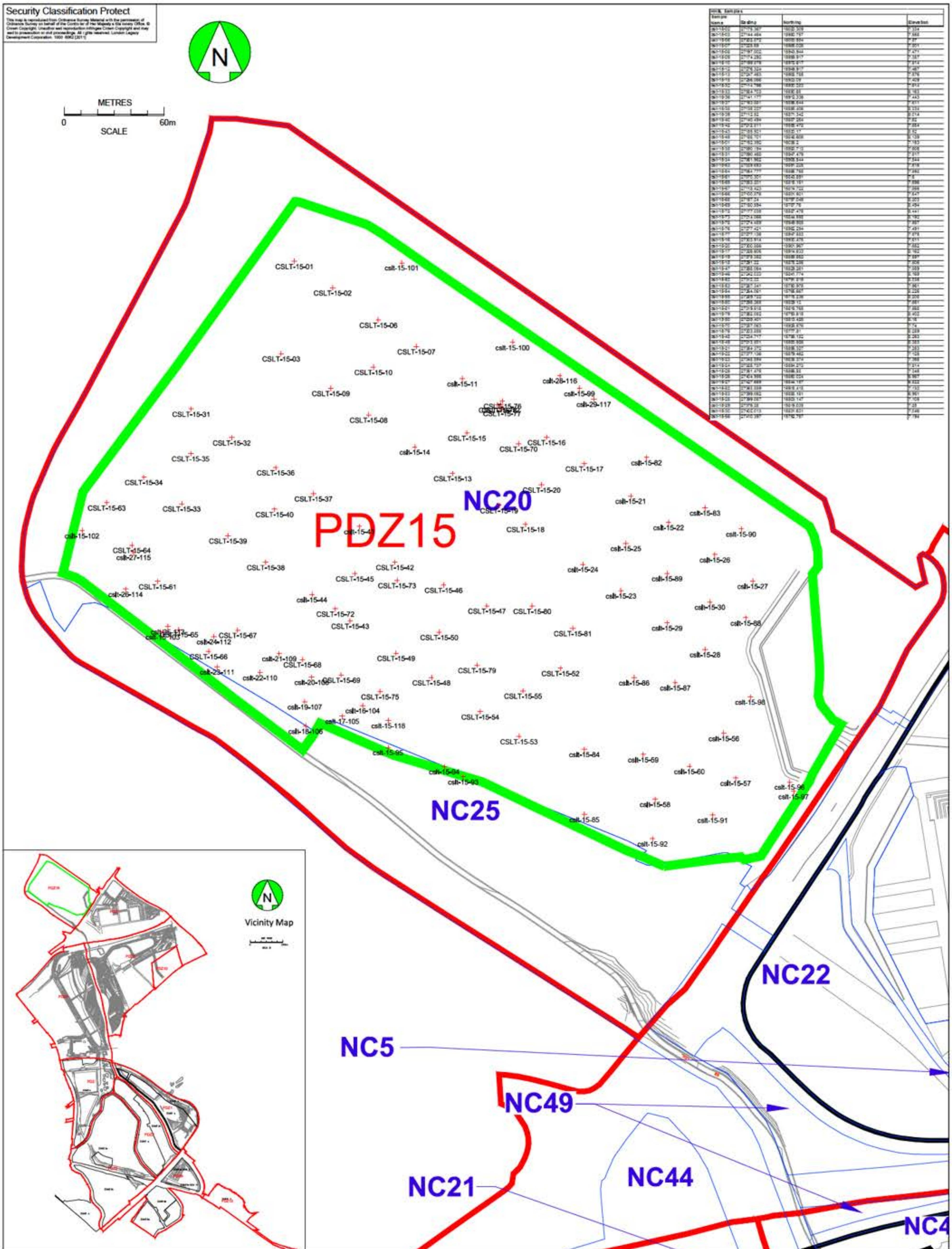

Security Classification Protect
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Northing
Elevation
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cslt-15-85
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cslt-15-92
Vicinity Map

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Rev	Description	Drawn	Chk'd	Date
P01	For Information	FC	AOM	xxx

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Notes:

- PDZ Boundary
- Completion Zone Boundary
- Site Boundary
- HHSL Samples (cslt-21-109)

Safety, Health and Environment Information

In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following risks and information

Construction	
Dismantling / Demolition (Future)	

For information relating to Use, Cleaning and Maintenance see the Health and Safety File. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Creator: Prepared by bam nuttall, On behalf of the LLDC

Drawing Title: PDZ15 Figure 9 HHSL (AML) Material Placement

Project Title		
QEOP Legacy Transformation		
Drawn: FC	Checked: AOM	Approved: DS
Date: 04/ 10/ 13	Scale: Scale Bar Shown	Size: A3
Purpose of Drawing: FOR INFORMATION		Suitability: S2
Drawing No.	Sheet	Rev.: P01

Security Classification Protect

Sample Name	Easting	Northing	Elevation
cslt-15-200	27058.51	15893.816	8.292
cslt-15-201	27099.313	15951.124	7.969
cslt-15-202	27162.016	16042.369	7.485
cslt-15-203	27102.201	15867.207	8.357
cslt-15-204	27146.821	15929.96	7.919
cslt-15-205	27204.634	16015.691	7.515
cslt-15-206	27153.207	15827.755	8.495
cslt-15-207	27199.367	15894.111	8.086
cslt-15-208	27259.614	15977.171	7.517
cslt-15-209	27299.823	15951.974	7.495
cslt-15-210	27242.744	15872.112	8.012
cslt-15-211	27192.27	15796.26	8.503
cslt-15-212	27252.289	15754.598	8.329
cslt-15-213	27305.954	15827.85	7.846
cslt-15-214	27361.889	15908.328	7.323
cslt-15-215	27410.489	15873.222	7.103
cslt-15-216	27355.993	15796.546	7.618
cslt-15-217	27303.74	15718.922	8.055
cslt-15-218	27381.799	15712.516	7.585
cslt-15-219	27422.982	15747.086	7.228
cslt-15-301	27353.303	15920.479	7.389
cslt-15-302	27305.459	15723.406	7.991
cslt-15-303	27089.663	15877.128	8.283

N

METRES

0 60m

SCALE

cslt-15-202
cslt-15-205
cslt-15-208
cslt-15-201
cslt-15-209
cslt-15-204
cslt-15-301
cslt-15-214
cslt-15-200
cslt-15-207
cslt-15-303
cslt-15-203
cslt-15-210
cslt-15-215
cslt-15-206
cslt-15-213
cslt-15-211
cslt-15-216
cslt-15-212
cslt-15-219
cslt-15-302
cslt-15-217
cslt-15-218

PDZ15

NC20

NC25

NC22

NC5

NC49

NC44

NC21

NC4

Vicinity Map

Rev	Description	Drawn	Chkd	Date
P01	For Information	FC	AOM	xxx

Do not scale this drawing.

Notes:

PDZ Boundary
Completion Zone Boundary
Site Boundary
TopSoil Samples
cslt-15-217

Safety, Health and Environment Information

In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following risks and information

Construction	
Dismantling / Demolition (Future)	

For information relating to Use, Cleaning and Maintenance see the Health and Safety File. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Creator

Prepared by bam nuttall www.bamnuttall.co.uk

On behalf of the LLDC

Drawing Title

PDZ15
Figure 10
Imported Material Placement

Project Title

QEOP Legacy Transformation

Drawn	Checked	Approved
FC	AOM	DS
Date	Scale	Size
04/ 10/ 13	Scale Bar Shown	A3
Purpose of Drawing		Suitable by
FOR INFORMATION		S2
Drawing No.	Sheet.	Rev.
		P01

Security Classification Protect

N

METRES

0 60m

SCALE

PDZ15

NC20

NC25

NC22

NC5

NC49

NC21

NC44

NC4

Vicinity Map

Rev	Description	Drawn	Chkd	Date
Z01	For Information	FC	AOM	xxx

Do not scale this drawing.

Notes:

- PDZ Boundary
- Completion Zone Boundary
- Site Boundary
- Finish Level As Built Survey

Safety, Health and Environment Information

In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following risks and information

Construction	
Dismantling / Demolition (Future)	

For information relating to Use, Cleaning and Maintenance see the Health and Safety File. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Creator

Prepared by bam nuttall www.bamnuttall.co.uk

On behalf of the LLDC

Drawing Title

PDZ15

Figure 11 Finsh Level As Built

Project Title

QEOP Legacy Transformation

Drawn	Checked	Approved
FC	AOM	DS
Date	Scale	Size
04/ 10/ 13	Scale Bar Shown	A3
Purpose of Drawing		Suitability
As Built		R
Drawing No.	Sheet.	Rev.
		Z01

Appendix B. PDZ15 Remediation Impact Assessment & Method Statement

CAPITA SYMONDS

Queen Elizabeth Olympic Park Legacy Transformation

Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 [PDZ15] East Marsh Playing Fields

November 2012

successful people, projects and performance

Quality Management

Project Number	CS053922 / CS053924		
Document Title	Remediation Impact Assessment and Method Statement for Planning Delivery Zone 15 [PDZ15] East Marsh Playing Fields		
Project Title	Queen Elizabeth Olympic Park Legacy Transformation		
Client	BAM Nuttall Ltd		
File Reference	LC401-LCI-EMF-CM-MST-0001		
Document Date	20th November 2012		
Prepared By	[redacted]	**Signature**	[redacted]
Checked By	[redacted]	**Signature**	[redacted]
Authorised By	[redacted]	**Signature**	

Document Distribution

Document Status	Document Revision	Issued To	Issue Date
Draft	P01	BAM Nuttall Ltd	16.11.12
Final for Approval	P01	BAM Nuttall Ltd / LLDC / LBH	20.11.12

Contents

Appendices

1. Introduction

OVERVIEW

1.1 This document is prepared on behalf of Bam Nuttall Limited (Nuttall) for an area of the 'Hackney Marshes Recreational Ground' (the Site hereafter). The Site has formed part of the Queen Elizabeth Olympic Park (QEOP) Planning Delivery Zone (PDZ) 15 (also referred to as OLY2). The Site is located approximately 2.2km northwest of Stratford town centre to the north of the main QEOP and comprises a roughly rectangular parcel of land approximately 16.8ha in size.

1.2 Previously the Site has undergone remediation prior to the Olympic Games by the Olympic Delivery Authority (ODA) projects as part of the Operational Areas Projects. This has been based on an assumed Olympic land use as an accreditation checking area and a transport mall (car park).

1.3 Remediation design, implementation and validation reporting has previously been prepared for the Site by the ODA projects and this information has been utilised (and appropriately referenced) in the preparation of this document.

- Atkins PDZ15: Contamination Assessment Position Paper [Ref.1].
- Nuttall PDZ15: Remediation Method Statement [Ref.2].
- Nuttall PDZ15: Validation Report [Ref.3].

1.4 The primary scope of works for the Legacy Transformation Works (the 'Transformation Works' hereafter) involves the subsequent alteration of the QEOP from the Olympic Games Phase to that required for the Transformation Phase in preparation for the future Legacy land use as the East Marsh Playing Fields (refer to the Nuttall drawing 'Olympic Park Transformation: Changes to Sectional Completion Zones boundaries, dates & scope of works' included within Appendix A). In summary the extent of the Transformation Works proposed across the Site comprises:

- Site clearance and removal of block paving associated with the temporary Northern Spectator Transport Mall
- Partial removal of underlying pavement sub-base
- Placement of subsoil and topsoil
- Seeding to create the new East Marsh football pitches.

PURPOSE OF THIS DOCUMENT

1.5 This document has been prepared to support the discharge of Conditions LTD.16 and LTD.14 of the 2007 Facilities and their Legacy Permission (ref. 07/90010/OUMODA) which provides for the protection and enhancement of remediation works undertaken to date, and the control of imported soils to the Site. This is discussed further in Section 2 and Appendix B.

1.6 This document has been prepared in accordance with the following key documents:

- Capita Symonds Ltd – Approach to the discharge of Legacy Transformation remediation related planning conditions [Ref.4].
- Olympic Delivery Authority (ODA) – Logistics Parameters [Ref.5].

1.7 This document utilises existing information to provide an assessment of the status of remediation works undertaken to date and their effectiveness in support of the Transformation Works.

1.8 This document subsequently provides details on the mitigation measures assessed to be required based on any potential risks / impacts that will be introduced through the Transformation Works, including:

i. how the integrity of the remediation measures installed for the Olympic development will be maintained; and,
ii. necessary enhancement or alterations to the existing remediation measures that may be required.

1.9 Additional documents utilised in the preparation of this document are referenced throughout and in Section 12.

KEY CONTENTS

1.10 This structure of this document is as follows:

- *Planning*: planning context, relevant conditions and supporting documents.
- *Background*: overview of the site, the extent of the remediation works undertaken to date and validation status (including identification of any outstanding issues).
- *Conceptual Site Model*: post Olympic Games Phase and pre Transformation Works.
- *Transformation Works*: summary of the scope of works to be undertaken by Nuttall during Transformation development.
- *Impact Assessment*: identification of any impacts of the Transformation Works on the existing remediation measures.
- *Development Specific Mitigation Measures*: details the mitigation measures required where the existing remediation design is not considered suitable for the Transformation development end use.
- *General Mitigation Measures*: details the general mitigation measures required to control the Transformation Works to ensure that the integrity of the existing remediation measures are not compromised.
- *Implementation of Works*: outlines the safe working methods, environmental controls, materials management procedures and includes potential licensing and permitting requirements.
- *Earthworks Verification*: outlines the proposed approach to verification of the earthworks cut and fill materials including the sampling and testing to be undertaken during the works.
- *Validation Reporting*: outlines the validation objectives and anticipated key content of the validation reports to be issued post completion of the works.

KEY PARTIES AND RESPONSIBILITIES

1.11 The key parties involved in the Transformation Works are outlined in Table 1.1 below.

TABLE 1.1 KEY PARTIES

Client	London Legacy Development Corporation (LLDC) (formerly OPLC)
Landowner	London Borough of Hackney
Client's Project Management Partner	MACE
Client's Supervisor	Atkins
CDM Coordinator	Atkins
Principal Contractor (Post Games 'Bump Out')	London Organising Committee for the Olympic Games (LOCOG)
Principal Contractor (Transformation)	BAM Nuttall Ltd
Contractors Designer (including remediation)	Capita Symonds Ltd
Key Nuttall Subcontractors: ▪ Soft Landscaping ▪ Chemical testing laboratory ▪ Geotechnical testing laboratory ▪ Unexploded Ordnance	 Frosts Landscape Construction Ltd WSP Environmental Ltd BAM Ritchies MACC International (standby for on-site support if required)
Planning Authority	London Borough of Hackney (formerly ODA PDT)
Key Stakeholders	Environment Agency

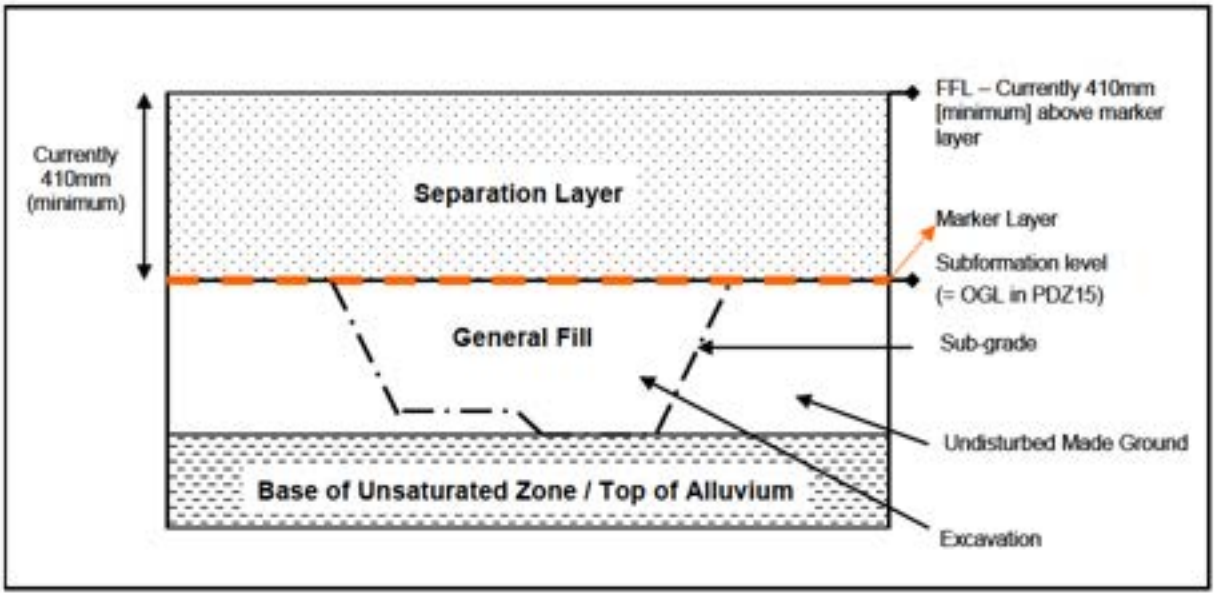
PROGRAMME OF WORKS

1.12 Nuttall have produced detailed programmes of the proposed works which are included in Appendix C. The programme is subject to change and updated as a minimum on a monthly basis throughout the course of the project.

EARTHWORKS TERMS

1.13 A definition of the earthworks terms and abbreviations used at the QEOP is provided below.

- **Original Ground Level (OGL)**: Ground levels prior to development of the QEOP (i.e. prior to the ODA Enabling Works project).
- **Final Finished Level (FFL)**: The design level of the completed Olympic or Transformation development.
- **Human Health Separation Layer (HHSL)**: This comprises unbound materials placed above the marker layer constructed for the protection of human health, or alternatively comprises a layer of hardstanding (where agreed with the Planning Authority). The minimum required thickness of the separation layer will vary depending upon the end use of the site and whether the materials at the site will remain post Olympics, but is typically minimum 600mm thick.
- **Sub-formation**: The highest level of cut or fill beneath any materials placed to provide a HHSL and marked by a brightly coloured marker layer. In areas of cut this may coincide with the sub-grade.
- **Marker Layer**: A brightly coloured (typically orange) geotextile laid over the sub-formation in order to act as a visual warning to distinguish the interface between the separation layer and the underlying general fill / undisturbed ground (sub-grade).
- **Sub-grade**: The existing level, after removal, if required, of any geotechnically or chemically unsuitable material in areas to receive fill and the lowest level of excavation in areas of cut (this may coincide with the sub-formation). The sub-grade will always be material undisturbed by the QEOP works, taking into account works undertaken by previous ODA projects.
- **General Fill**: Applies to any fill materials placed below the sub-formation / marker layer level, as either backfill to an excavation or to raise the site levels.



2. Planning

CONTEXT

2.1 The Site has been previously remediated under the Planning Permissions (summarised below), with the ODA Planning Decisions Team (PDT) as the Planning Authority. The ODA PDT has subsequently been replaced by the LLDC Planning & Policy Decisions Team (PPDT) for the Transformation and Legacy Works.

'The Localism Act 2011 provided for the Legacy Corporation to be given planning powers. The London Legacy Development Corporation (Planning Functions) Order 2012, effective from 1 October 2012, granted the Legacy Corporation the full range of planning functions which a local planning authority would normally have responsibility for, including those of plan making.

2.2 The LLDC PPDT consults with the Local Authorities and Environment Agency. Additionally monthly remediation forums are held and are attended by the PPDT and their consultees whereby updates on remediation and potential issues are discussed.

2.3 However, the Site now lies outside the LLDC PPDT boundary and within the remit of the London Borough of Hackney (LBH) and a small section on the eastern most apex within the London Borough of Waltham Forest (LBWF). As such LBH and LBWF additionally attend the monthly remediation forum meetings as separate Planning Authorities. Notwithstanding no Transformation Works are to be undertaken on the eastern area (a protected tree and habitat area) and a separate submission to LBWF is not expected. The PPDT planning area and borough boundaries are shown within the appended extract (Appendix A).

PERMISSIONS

2.4 The Enabling Works, Follow-on Projects and subsequent Transformation Works are supported through the permissions detailed below comprising the consented scheme.

- **2007 Site Preparation Permission [Ref. 07/90011/FUMODA]**: to provide a development platform for construction and operation of venues and infrastructure associated with 2012 Olympic games and Legacy development where known; and,
- **2007 Facilities and their Legacy Transformation Permission [Ref. 07/90010/OUMODA]**: comprising works for the development of the venues, facilities and other infrastructure necessary for the Games and post games transformation.

LEGACY TRANSFORMATION CONDITIONS

2.5 The relevant remediation conditions attached to the Legacy Transformation permission (LTD) are detailed in Table 2.1 below.

TABLE 2.1 RELEVANT REMEDIATION LEGACY TRANSFORMATION CONDITIONS (07/90010/OUMODA)

Condition	*Title*	*Description*
LTD.16	Protection and Enhancement of Remediation	Before 31 December 2012 a method statement shall be submitted to the Local Planning Authority for approval indicating how the integrity of the remediation measures installed for the Olympic development will be maintained and any necessary enhancement or alterations to those measures are to be installed. This condition may be discharged on a Legacy Transformation Work Zone basis.
LTD.1.12	Remediation Monitoring	Approved post-remediation monitoring and maintenance of the remediated land shall continue as set out in the validation reports until such dates or events as are approved by the Local Planning Authority.

Condition	*Title*	*Description*
LTD.1.13	Unexpected Contamination	If at any time during the construction of the Legacy Transformation development contamination is encountered which was not previously identified or treated or has been brought to the surface by construction activity construction work in that Construction Zone shall not proceed (except to the extent that it would not further disturb that contamination) until a Remediation Change Note containing an assessment of that contamination and a scheme and timetable to contain treat or remove it has been submitted to and approved by the Local Planning Authority and any necessary remediation has been carried out.
LTD.1.14	Quality of Imported Fill	No soils or infill materials (including silt dredged from watercourses) shall be imported onto the Site until it has been satisfactorily demonstrated that they present no risk to human health, planting and the environment. Documentary evidence to confirm the origin of all imported soils and infill materials supported by appropriate chemical analysis test results shall be submitted to and approved by the Local Planning Authority prior to that import. The import onto the Site of material classified as waste is only acceptable with the prior approval of the Local Planning Authority.

LEGACY TRANSFORMATION: KEY DOCUMENTS TO BE SUBMITTED

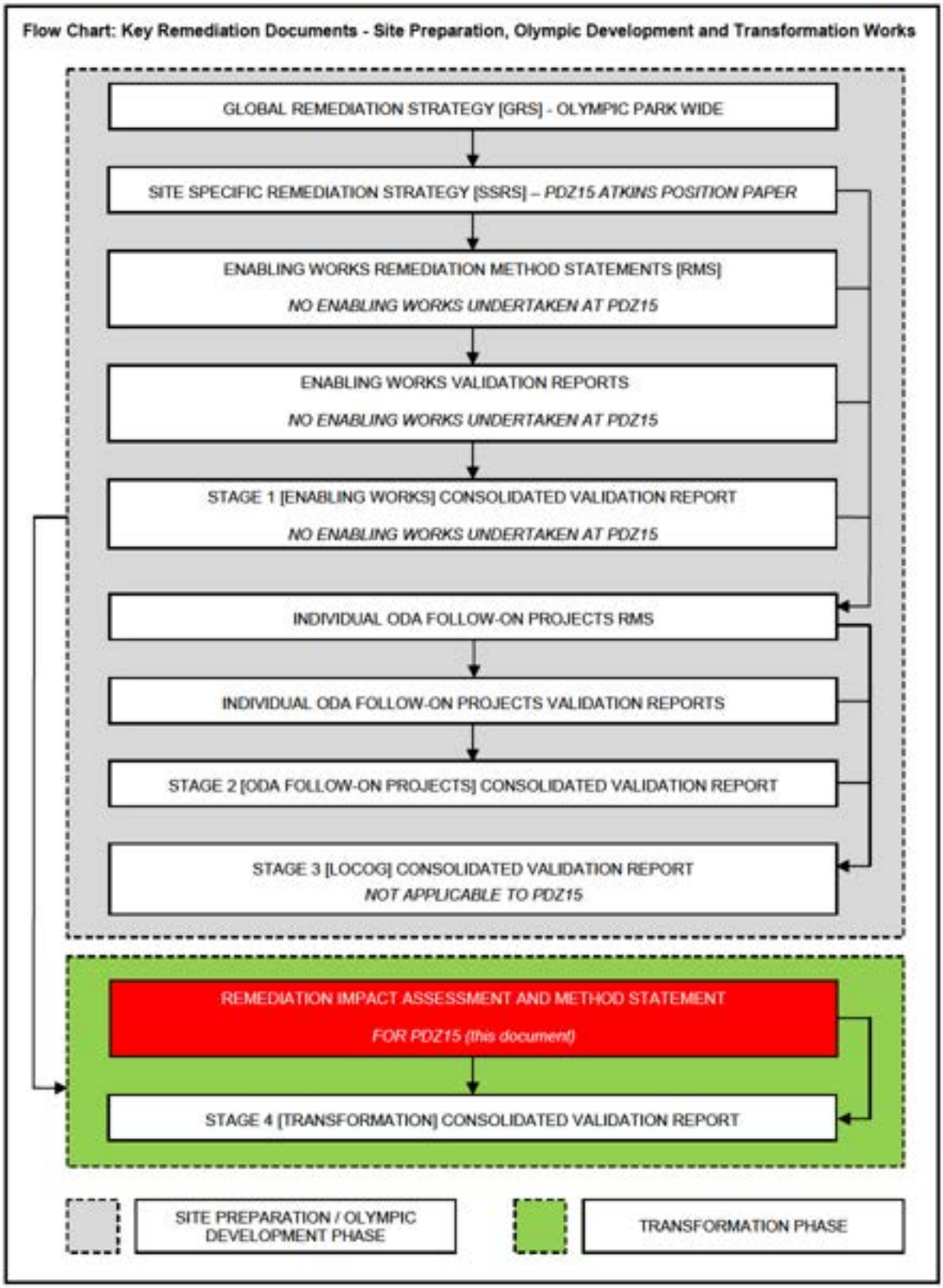
2.6 A summary of the key documents to be submitted with respect to the discharge of LTD conditions is provided below in Table 2.2. This document will be submitted pre commencement of the Legacy Transformation Works and the Consolidated Validation Reports will be prepared and issued following the construction phase works.

TABLE 2.2 KEY DOCUMENTS, COVERAGE AND RELEVANT LEGACY TRANSFORMATION CONDITION

Document	*Purpose*	*Relevant Legacy Transformation Condition*
Remediation Impact Assessment & Method Statement (this document)	To determine whether the scope of the proposed works are likely to pose a risk to, or compromise the effectiveness of existing remediation works and whether the existing remediation measures are effective in the context of the Transformation end use proposals. To review the suitability of existing remediation design documentation (SSRS) and propose alternative design measures where required.	LTD.16
	The document will outline how the existing remedial strategy will be maintained and enhanced and those mitigation measures required in order to manage any impacts identified. The document will detail how the works will be implemented including information on the source and quality of imported fill.	LTD.16 LTD.1.14
Consolidated Validation Report	Compilation of verification information demonstrating compliance with the above document.	LTD.1.12 LTD.1.13*
Notes. * Compliance – only requires discharging if encountered.		

2.7 The proposed approach generally follows that undertaken for the Site Preparation and Olympic Development. The general approach to previously submitted remediation documentation is presented in the flow chart below. For completeness, the documents relating to the Transformation Works as proposed herein have been added to demonstrate their relationship to the existing documentation.

Flow Chart: Key Remediation Documents - Site Preparation, Olympic Development and Transformation Works



3. Background

OVERVIEW

3.1 The Site has been developed by the ODA projects as the Northern Spectator Transport Mall (NSTM) covering the northern, southern and western parts of the Site. An accreditation checking area comprises the south western corner. Land-bridge (L01) has been constructed, which spans Ruckholt Road and connects to the main QEOP. These works have taken place in two phases:

- *ODA Follow-on Projects*: consisted of the Operational Areas Northern Spectator Transport Mall and the adjacent land bridge L01.
- *LOCOG Overlay Works*: preparation of the Site for the Games with temporary overlay areas and subsequent removal post Games (Bump Out).

3.2 To facilitate the QEOP development in advance of the London 2012 Olympic and Paralympic Games, a programme of remediation has been undertaken by the ODA during the Enabling Works and Follow-on Projects to control or mitigate identified risks to human health and Controlled Waters associated with land contamination. PDZ15 was assessed not to require specific remediation to facilitate the Olympic land use and as such earthworks were primarily limited to placement of a marker layer at the original ground level [overlying the former sports pitches] overlain by imported virgin quarry stone and block pavers to form the temporary Northern Spectator Transport Mall. In addition minor utility installation was undertaken and small areas of soft landscaping were constructed using imported topsoil.

3.3 Following completion of the ODA projects prior to the Olympic Games, the QEOP was handed over to LOCOG to complete the overlay and temporary facilities required to host the Olympic Games.

3.4 Post Games, the 'Bump Out' phase comprises the removal of the Games phase overlay and reinstatement of site areas by LOCOG to the condition received from the ODA. This phase of work commences post Games until 24th November 2012, where Nuttall become the Principal Contractor for the QEOP. As part of the phased handover from LOCOG, Nuttall become respons ble for managing security and logistics on 22nd October 2012, in advance of the formal handover on 24th November 2012.

REMEDIATION WORKS PRIOR TO TRANSFORMATION

3.5 The Site has been investigated, remediated [where required] and validated by the ODA projects in order to mitigate risks to the human health of future site users and to Controlled Waters based on the approved remediation designs for the Olympic end use.

3.6 Documentation outlining the approach to remediation and remediation requirements has been prepared cognisant of the Olympic Games Phase as follows:

- *Contamination Assessment Position Paper* [Ref.1]: outlines the remediation strategy applicable to the Site and derived Site Specific Assessment Criteria (SSAC) to be applied to fill materials at the Site.
- *Olympic Park Operational Area, Global Remediation Method Statement* [Ref.6]: outline method statement for works applicable to all Nuttall operational areas confirming the approach to remediation, validation and responsibilities.
- *Site Specific Remediation Method Statement* [Ref.2]*:* provides more detailed information regarding site specific remedial works.
- *Site Specific Validation Report* [Ref.3]: on completion of the remediation works approved under the 2007 permissions to validate that remediation works have been undertaken in accordance with the position paper and RMS document.

3.7 The remediation works were undertaken to be protective of human health and Controlled Waters and the general design comprised:

- *Human health*: remediation with respect to protection of site users to support the Olympic Games Phase end use.

- *Controlled Waters*: remediation for protection of identified receptors which comprised the underlying Chalk Aquifer (to the east off-site).

3.8 Risks to ecological and built structure receptors were managed through associated landscaping and built structure design and construction works, which were undertaken by various ODA Follow-on Projects.

HUMAN HEALTH

3.9 A Human Health Separation Layer (HHSL) has been placed across a large proportion of the site by the previous ODA projects, in accordance with the approved remediation design for the QEOP. The current separation layer is a minimum of 410mm thickness[1] across the site as follows:

- 60-80mm of block paving hard landscaped surface; over,
- 350mm sub-base imported material comprising select crushed virgin stone.

3.10 This HHSL is constructed using selective material which meets Site Specific Assessment Criteria (SSAC) considered appropriate for the designated end use as defined by the relevant Atkins Position Paper [Ref.1] prepared for the ODA projects

3.11 A marker layer has been placed at original ground level (approximately 6m to 7m AOD) to identify the interface between the HHSL and the underlying material.

3.12 Additionally limited excavations were undertaken across the site as part of site clearance works, security fence and utility installation as follows:

- Locally gravel aggregate and Thanet sand used as fill for service trenches.
- Locally soft landscaping areas (in a narrow strip adjacent to the site boundary) with SSAC compliant topsoil.

CONTROLLED WATERS

3.13 No exceedances of Controlled Waters SSAC were reported and therefore no works required.

VALIDATION STATUS

3.14 It is anticipated that prior to handover of the QEOP post Games, the ground will be validated by the former ODA / LOCOG projects. The Validation Report for the Site [Ref.3] has been prepared and was issued to and approved by the PDT by Nuttall with reference to the verification of remediation undertaken during Operational Areas project. The subsequent Stage 2 Consolidated Validation Report has also been submitted although is not yet approved.

3.15 The LOCOG overlay and subsequent Bump Out works are minor in PDZ15 and as such LOCOG will not be submitting a Stage 3 CVR to the PPDT.

OUTSTANDING ACTIONS AND RESTRICTIONS

3.16 Whilst as noted previously, the ODA have undertaken works at the site previously, there are outstanding actions and restrictions associated with the future use of the site, as detailed within the relevant previously issued and approved validation report [Ref.3]. Where applicable any outstanding actions will be addressed by the appropriate contractor under instruction from the LLDC during the Transformation Works as defined herein.

3.17 The Stage 4 CVR to be produced following completion of the Transformation Works will clearly outline which of the outstanding actions from former reports have been completed by Nuttall and which [if any] are the responsibility of future Legacy contractors.

3.18 An interim review of the outstanding actions and restrictions from the available reports has been undertaken and

[1] As agreed with the Planning Decisions Team (PDT) [Ref.7] a reduction of the site wide HHSL thickness of 600mm in areas of permanent hard-standing which form a suitable substitute.

is included in Appendix D. These actions will be continually reviewed following receipt of updated reports and information from the Project Manager / LLDC. As discussed above, any outstanding actions that fall within areas modified during the Transformation Works will be undertaken by Nuttall, subject to instruction by the Project Manager / LLDC.

3.19 It is recommended that a technical meeting be held with the LBH, LLDC / Mace and Nuttall / Capita Symonds upon receipt of the approved Stage 2 CVR, so that all remaining outstanding actions can be reviewed and responsibility for each can be assigned / instructed to the appropriate contractor.

RETAINED AREAS

3.20 There are areas within the PDZ15 Planning boundary where no works have been undertaken by the ODA as they were beyond the boundary of the Northern Spectator Transport Mall. These areas are defined in the Stage 2 CVR. Works to be undertaken by Nuttall during the Transformation phase to complete the East Marsh Playing Fields are limited to those shown on the Nuttall drawing 'Olympic Park Transformation: Changes to Sectional Completion Zones boundaries, dates & scope of works' included within Appendix A.

PROTECTED BOREHOLES

3.21 Active boreholes exist at the site and will be retained for potential future monitoring. These will require protection from any site activities during the Transformation Works. The integrity of any active groundwater monitoring wells will be maintained in accordance with the Nuttall Decommissioning and Protection of Retained Boreholes document [Ref.10].

4. Conceptual Site Model

4.1 The Conceptual Site Model (CSM) is based on, the pollutant linkages identified in the Atkins Contamination Position Paper [Ref.1], and remediation works undertaken, validated and approved in accordance with the land use adopted under the 2007 Permissions.

RECEPTORS

4.2 The below receptors were identified / assessed at the Site.

- Human Health:
  - Olympic Games Phase site users. Assumed to be infrequent visitors of all ages, transport mall workers and athletes over a short duration.
  - Construction workers were not considered on the basis of the use appropriate Personal Protective Equipment (PPE).
  - Legacy phase site users not assessed.
- Surface Water:
  - The River Lea and Hackney Cut Canal (River Lea Navigation) are hydraulically up-gradient of the Site and not considered as receptors. Additionally the Channelsea River is also not directly down hydraulic gradient from the Site and beyond CZ7a, and so is not considered a receptor.
- Groundwater:
  - Principal Aquifer within the Cha k.
  - Secondary Aquifer within the River Terrace Deposits (RTD) / Lambeth Group and Thanet Sands. However, the shallow groundwater within the Made Ground and the Secondary Aquifer has not been considered as a sensitive receptor in its own right. This position was agreed for the site with the Environment Agency as part of the consultation for 2007 Permissions.

SOURCES

4.3 Relevant previous reports and studies have identified the Site's former uses as marshland recreational areas, with the following potentially historical contaminative activities:

- A 'bomb cemetery' area used to break down unexploded German bombs.
- Infilling of river channels and land raising activities.

4.4 Encountered visual and olfactory ground contamination conditions encountered across the Site during ground investigation works have comprised:

- Made Ground – slag, ash, clinker and organic and hydrocarbon odours.
- Alluvium – locally black pocket of material and strong organic odour.

4.5 Notwithstanding, Generic Quantitative Risk Assessment (GQRA) of soils did not identify any exceedances of the Contaminants of Concern in relation to the Olympic Games Phase end uses across the Site for human health.

4.6 Following groundwater risk assessment, exceedances of TPH and PAH fractions were recorded at the site boundary. However, the assessment concluded these were not significant in the context of the conservatism of the assessment and extended travel times calculated to the identified receptor modelled (Chalk Aquifer).

PATHWAYS

4.7 Direct exposure pathways (i.e. dermal contact, ingestion and particulate inhalation) to soil / dust and groundwater were not identified be present in relation to Olympic Games Phase to site users since the CSM assumed the site to be remediated by a 0.6m HHSL or hardstanding alternative.

4.8 Soil vapours at explosive limits have not been identified. Notwithstanding, concentrations which may pose a potential risk of asphyxiation have been identified, by migration of soil gases / vapours (through anthropogenic or natural granular porous or permeable strata; and / or through building substructures) and accumulation in confined spaces.

4.9 Vapour inhalation pathways associated with groundwater are not considered on the basis that no perched water has been identified and the RTD aquifer is confined by the Alluvium layer providing a barrier to any potential vapour migration to the surface.

4.10 The Site is underlain by the low permeability Lambeth Group (formerly known as the Woolwich and Reading Beds) which acts to retard vertical contamination migration to the underlying Principal Aquifer. Notwithstanding, groundwater flow is to the east towards CZ7a and the Dry Zone (a more permeable unit of the Lambeth Group). Therefore a potential pathway to the underlying Chalk Aquifer is assessed to be present off-site to the east, in relation to vertical leaching of potentially impacted soils associated with Made Ground / Alluvium to the shallow RTD, and subsequent lateral migration of contaminants via shallow groundwater.

SUMMARY

4.11 The CSM in the context of the remediated Olympic end use (pre Transformation) is summarised below in Table 4.1.

TABLE 4.1 CSM: POST GAMES MODE / PRE TRANSFORMATION

Receptor	*Source*	*Pathway*	*Status*	*Pollutant Linkage*
Human Health (End User – Games Mode)	Made Ground / Alluvium	Direct dermal contact, ingestion	No chemical exceedances of GAC	No
		Volatile / gas inhalation (indoor / outdoor)	Potential elevated concentrations of Carbon Dioxide recorded	Yes*
	RTD groundwater	Direct dermal contact, ingestion	Provision of a HHSL and marker layer	No
		Volatile / gas inhalation (indoor / outdoor)	Confined by alluvium layer.	No
Groundwater (Chalk Aquifer beneath CZ7a)	Made Ground / Alluvium	Vertical soil leaching to RTD groundwater	Lambeth group underlies site as an aquiclude.	No
	RTD groundwater	Lateral and vertical migration of RTD groundwater	Groundwater direction to east. However no exceedances considered significant	No

Notes
* Appropriate installation gas protection measures where required as part of Follow-on Projects.

5. Transformation Works

5.1 This Section provides an overview of the Transformation Works with relevance to those works that have the potential to pose a risk to or compromise the effectiveness of existing remediation works. These are broadly split into the following categories:

- *Landscaping*: those areas of the site where there is a change in landscaping generally from hard landscaping to soft landscaping. This includes removal of existing Olympic surfacing and pavement and replacement with Transformation finishes.
- *Earthworks*: where there is significant change in finished levels associated with the Transformation Works (e.g. reprofiling of parklands).
- *Structures*: including deconstruction of temporary structures and construction of new structures.

5.2 The Transformation Works are illustrated on the Nuttall drawing 'Olympic Park Transformation: Changes to Sectional Completion Zones boundaries, dates & scope of works' included within Appendix A. In relation to PDZ15 East Marsh Playing Fields these generally comprises conversion (reinstatement) of car park, transport and accreditation checking hard-standing areas to East Marsh Playing Fields. Refer to Appendix F for details of proposed HHSL construction. Additionally the following other more minor works will be undertaken:

- Construction of a mountain bike trail in the former Olympic Games Accreditation Checking area on the south east apex of the Site.
- Bridge L01 – excavation of the northern approach as part of decommissioning / removal works.

LANDSCAPING

5.3 In addition to the general earthworks for preparation of the Transformation development described below, there will be ground works associated with removal of existing Olympic surfacing and pavement and replacement with Transformation finishes. This will primarily involve the removal of temporary block paving placed by the Nuttall Operational Areas Project prior to construction of the future East Marsh Playing Fields.

EARTHWORKS

5.4 The Transformation Works include re-profiling of the QEOP following the completion of the Olympic Games in 2012. Wherever practical, this will be achieved largely through the excavation and re-distribution of site-derived soils (subject to assessment of suitability), providing a sustainable solution and minimising the requirement for import of materials and disposal of soils off-site.

5.5 The Transformation Works on the Site consist of:

- Removal of the temporary development platform constructed for the Olympic Games Phase. Comprising excavation of the underlying granular material associated with the NSTM to 100mm above original site levels (leaving the marker layer in-situ).
- Subsequent placement of select suitable materials recycled from the Warm-up track (WUT) material on PDZ3 (CZ3b) to form a subsoil layer 300mm in thickness.
- A further 200mm thickness of imported topsoil (refer to Appendix H).
- Playing fields finishes (seed, turf etc) to Final Finished Level.

5.6 A summary of the proposed earthworks at the Site is provided below in Table 5.1.

TABLE 5.1 GENERAL EARTHWORKS

PDZ 15	*Cut (m^3)*	*Fill (m^3)*
Import topsoil	-	20,000
Subsoil relocated from WUT	-	32,000
Block paving	7,000	-
Aggregate	20,700	-
Type 1	455	-
Total	**28,155**	**52,000**

STRUCTURES

MODIFICATIONS

5.7 No alterations or modifications to structures is proposed.

DECONSTRUCTION

5.8 The deconstruction and / or removal of temporary elements of the below is to be undertaken. These works generally involve minor earthworks associated with reinstatement / realignment of bridge embankments / approaches etc. Deconstruction of temporary elements of bridges is not expected to extend beyond removal of the pile cap, which means that it is unlikely excavations will extend to the alluvium. Table 5.2 below details the principal relevant works.

TABLE 5.2 TRANSFORMATION BRIDGE DECONSTRUCTION WORKS

Bridge	*General Works*	*Location*
L01	▪ Removal of temporary elements. ▪ Removal of temporary bridge foundation and associated works. ▪ Reinforced earth structure including crushed concrete gabion cladding to the top of abutment facing.	Land-bridge L01 spans 35m and crosses over Ruckholt Road connecting PDZ7 (CZ7a) with the south of PDZ15.

CONSTRUCTION

5.9 No new structures are to be constructed.

6. Impact Assessment

6.1 This Section provides a review of the Transformation Works in the context of the current remediation design (i.e. for the Olympic Games Phase end use), and identifies where new impacts will be introduced and where the integrity of the existing remediation may be compromised. Reference is made to the below figures / drawings included within Appendix A.

- EDAW 'Olympic Park Site Plan' [Ref. MPO-ALM-PWD-URB-DR-T-5-B16-0111 rev.03]
- EDAW 'Illustrative Transformation Masterplan' [Ref. 775ALM-VEP-OLM-A-DSP-0001 rev. P03].
- EDAW 'Park Wide Design' [Ref. OLY-OLF-ILL-DWG-STW-007 rev.00].

6.2 In particular the impact assessment assess the:

- *Remediation Design*: whether the original remediation design is effective in the context of the Transformation development (i.e. whether there has been a change to a more sensitive end use).
- *Remediation Integrity*: whether the Transformation Works are likely to compromise the effectiveness and integrity of existing remediation if unmitigated.

REMEDIATION DESIGN

6.3 No Site Specific Remediation Strategy (SSRS) is available for PDZ15 that applies to future Legacy / Transformation site users. The Atkins Position Paper [Ref.1] has been previously prepared to assess the risks to Olympic Games Phase site users and Controlled Waters only.

6.4 Specific changes in end use are proposed as part of the Transformation Works on the basis that the Olympic Games Phase end use (primarily hardstanding areas) is not considered suitably protective of the more sensitive playing fields end use proposed as part of the Transformation Works Legacy development.

6.5 As such development specific mitigation measures will be required.

RISK ASSESSMENT

6.6 An assessment has been undertaken of the level of risk, if any, associated with the Transformation end use. The updated Position Statement included as Appendix E includes an up to date assessment of:

- Human health: the risk, if any, associated with the proposed Transformation end use of playing fields. An assessment has been undertaken utilising existing historical site investigation data and has focused on the risk to the human health of future site users from ground conditions below the marker layer.
- Controlled Waters: risks to receptors have been considered previously as part of the Atkins Position Paper [Ref.1] and the findings considered suitably conservative, with Legacy Controlled Waters SSAC therefore assessed to remain valid.

6.7 The key findings from the assessment are:

- The below marker layer soils comply with the SSAC for General Fill.
- In-situ soils below marker layer do not pose an unacceptable risk to Controlled Waters.

6.8 Appendix F presents the proposed validation approach to the East Marsh playing fields. An assessment of the materials proposed to be reused from CZ3b WUT has been undertaken for suitability as a HHSL in accordance with the proposed SSAC included in Appendix G. This concludes that the materials will not present an unacceptable risk to human health and Controlled Waters in the context of the Legacy / Transformation end use.

REMEDIATION INTEGRITY

6.9 If unmitigated, Transformation Works have the potential to impact the integrity of the remediation works undertaken through the principal activities detailed below.

LANDSCAPING

6.10 The impacts assessed as a result of removal of hard landscaped areas (block paving) during the Transformation Works comprise the following potential creation of pathways / pollutant linkages as follows:

- Human health: exposure to soils and dermal, inhalation and ingestion pathways where the previous reduced depth of the HHSL may be insufficient.
- Controlled Waters: increase in surface infiltration and mobilisation of potential contamination directly via vertical migration of soil leachate and shallow groundwater, and indirectly via lateral groundwater migration.

EARTHWORKS

6.11 The impacts assessed as a result of the depth of excavation during the Transformation Works comprise the following potential creation of pathways / pollutant linkages as follows:

- Human health: exposure to soils via dermal contact, inhalation and ingestion pathways.
  - No exposure to sub-grade soils below the marker layer which will not be breached.
  - Excavation works which may reduce the thickness and effectiveness of the HHSL.
- Controlled Waters:
  - Areas of fill are required associated with construction of the playing fields, which if uncontrolled may introduce sources of impaction.
  - No creation of lateral shallow groundwater pathways for perched water since the proposed excavation works do not compromise the alluvium layer protective of surface waters.
  - No creation of vertical groundwater pathways for shallow groundwater since the proposed excavation works do not compromise the low permeability Lambeth Group protective of the underlying Chalk aquifer.
  - No retained monitoring wells associated with the global monitoring are within the areas of excavation.

STRUCTURES

6.12 The impacts assessed as a result of modifications to structures during the Transformation Works comprise the following:

- Human health: no structures are present, therefore the introduction of pathways by compromising vapour protection measures.
- Controlled Waters: no piling or foundation works are proposed, therefore the introduction of preferential pathways associated with these has not been identified.

6.13 All temporary structures on site are assumed to have been previously removed by LOCOG with no impacts identified as part of the Transformation Works. The decommissioning of the temporary components of Bridge L01 will require removal of associated bridge abutments, and if unmitigated potential pathways created in relation to:

- Human health: direct exposure to sub-grade soils; and a reduction in the thickness, and therefore the effectiveness of the HHSL
- Controlled Waters: no significant impacts identified.

6.14 As no new structures are proposed to be constructed no pollutant linkages are identified, notably in relation to:

- Human health - soil gas accumulation and indoor vapour inhalation pathways.
- Controlled Waters - creation of preferential pathways and mobilise potential contaminants during construction operations (such as piling, ground improvement etc).

7. Development Specific Mitigation Measures

7.1 The impact assessment concludes that the existing remediation design not considered suitable for the Legacy Transformation end use which is considered more sensitive.

7.2 Appendix F herein provides further information regarding the proposed pitch construction and associated validation approach. In summary, it is proposed to utilise surplus material from the existing WUT in CZ3b as fill within the East Marsh Playing Fields pitch construction. A review of the existing data associated with this material concludes that the material is not considered to present an unacceptable risk to human health or Controlled Waters in accordance with the CZ6c MOL SSAC for the Human Health Separation Layer. It is proposed to undertake in-situ sampling and reassurance testing during the works to confirm this conclusion.

7.3 It is noted that the approach outlined in Appendix F was communicated to the PDT in a technical meeting on Wednesday 18/07/12 and in the first revision of the QEOP Remediation Method Statement issued in July 2012, prior to the change in Planning boundaries that has required submission of this stand alone PDZ15 document.

8. General Mitigation Measures

8.1 The Impact Assessment identified the Transformation Works are likely to compromise the effectiveness and integrity of existing remediation. Where the development specific mitigation measures do not directly address these the following section discusses the general mitigation measures proposed.

MAINTENANCE OF EXISTING REMEDIATION MEASURES

8.2 General mitigation measures will be required during Transformation Works construction phase to ensure the integrity of the existing remediation is not compromised. Table 8.1 below details the general controls required during construction activities.

TABLE 8.1 GENERAL CONTROLS

Receptor	*Impact*	*Control of Construction Activities*
Construction Workers	Control of exposure to dust inhalation on removal of hard-standing areas	Code of Construction Practice
	Control of direct exposure to soils during earthworks excavations	
End Users	Control of exposure to dust inhalation on removal of hard-standing areas	Permit to Proceed Protocol
	Control of exposure to sub-grade unremediated soils	
	Control of exposure to soils due to reduced thickness of HHSL	
	Control of introduction of new sources by fill deposition	
Controlled Waters	Control of site works with the potential to damage any active monitoring wells and/or cut off walls	Code of Construction Practice Permit to Proceed Protocol
	Increase in surface water infiltration upon removal of hard-standing areas	
	Control of excavations breaching alluvium which would create preferential pathways to surface waters	
	Control of introduction of new sources by fill deposition	

CODE OF CONSTRUCTION PRACTICE

8.3 The Code of Construction Practice [Ref.12] for the QEOP will be adhered to which sets out the construction management principles to be followed during construction works on the QEOP. Those that primarily relate to contaminated land comprise:

- Prevent, contain or limit as far as is reasonably practicable any adverse impacts arising from the presence of contaminated land or material.
- Removal and redeposit of materials in accordance with applicable waste management legislation.
- No materials will be brought onto the site requiring treatment on-site prior to their reuse.
- A certification scheme shall be operated for the placement of any treated or acceptable excavated materials.
- Wherever encountered in groundwater free product shall be collected and removed.
- Provision of appropriate controls to be implemented during earthworks and construction activities to provide adequate pollution prevention.
- A 'Permit to Proceed' protocol shall be operated to control excavation works.

8.4 Section 9 of this document summarises the key and / or any additional measures to be implemented, including:

- General site operations.
- Health and Safety provisions.
- Environmental controls.
- Unforeseen conditions / reactive strategy.

- Licensing and other permits.

PERMIT TO PROCEED PROTOCOL

8.5 A Permit to Proceed Protocol will be implemented to ensure subsurface excavation is appropriately managed and in particular to control excavation below the marker layer and protect the integrity of the separation layer. The Permit to Proceed Protocol will be based upon the Atkins Permit to Proceed document [Ref.13] and include the following:

- Detail the work to be undertaken.
- Detail any precautions required (including protection of active monitoring boreholes).
- State that all foreseeable hazards have been noted.
- State the control measures to be implemented.

8.6 The integrity of the separation layer will be maintained in respect of:

- Its chemical quality as defined by the applicable SSAC in accordance with the Updated Position Statement and any subsequent agreed amendments (presented in Appendix E).
- The appropriate / agreed depth of cover.

PILING RISK ASSESSMENTS

8.7 No piling works are proposed associated with the East Marsh Playing Fields Transformation Works. Notwithstanding, a generic site-wide piling risk assessment will be completed and issued for all new piled structures as part of the Transformation Works scope, with individual structures detailed separately in a geotechnical design note or similar.

SOIL GAS / VAPOUR RISK ASSESSMENTS

8.8 The remediation design implemented assumes that risks to human health from soil gas / vapour intrusion into buildings (indoor inhalation) is addressed by the provision of suitable gas / vapour protection measures to buildings.

8.9 No new buildings are currently proposed to be constructed during the Transformation works. Should any buildings be required in the future then:

- Appropriate assessment of soil gas shall be undertaken on a PDZ specific basis in accordance with the Atkins Soil Gas Briefing Note [Ref.11].
- Specification and construction of appropriate protection measures will be required.
- As-built records of any installed mitigation measures will be required within the validation report(s).

9. Implementation of Works

9.1 In addition to the development specific and general mitigation measures (detailed in Sections 7 and 8), the implementation of the works will be subject to particular controls and monitoring as part of the remediation works. The Code of Construction Practice and associated Topical Management Plans (submitted separately to the PDT for approval) describe more fully the measures that will be implemented across the QEOP.

GENERAL SITE OPERATIONS

9.2 In summary the works will be undertaken at the specified core hours of:

Mon-Fri: 08.00 – 18.00
Sat: 08.00 – 13.00

Exceptions and requirements for consents are detailed in the Code of Construction Practice.

9.3 Construction site layout and good housekeeping including the provision of suitable welfare facilities, adequate site security, access provisions, public highway cleanliness, maintenance of hoarding where required and an information board. The site layout is generally illustrated within the Nuttall drawing 'Olympic Park Transformation: Changes to Sectional Completion Zones boundaries, dates & scope of works' included within Appendix A.

SAFE WORKING METHODS

9.4 The Transformation Works will be undertaken in accordance with all relevant Health and Safety legislation including (but not limited to) the Health and Safety at Work Act, 1974 and the Construction (Design and Management) Regulations (CDM) 2007.

9.5 Health and safety controls will be in place throughout the works, which will be outlined in construction method statements and risk assessments specific to the works being undertaken. This will include:

- Provision of appropriate Personal Protective Equipment (PPE):
  - overalls will not be brightly coloured unless in designated contaminated areas, should they be encountered;
  - gloves, boots and eye protection will be required; and,
  - Respiratory Protective Equipment (RPE) will be worn where required.
- No eating, drinking or smoking will be permitted in the dirty areas.
- Tool box talks to brief site workers on the potential hazards at the site, including contaminated land.
- Visitors will only be permitted if properly equipped, authorised in advance and accompanied at all times.

9.6 Entry into confined spaces to be appropriately controlled subject to provision of method statements and risk assessments. Gas monitoring will be undertaken where there is a risk of vapour / gas inhalation from the ground.

9.7 In the event that contamination is encountered the following procedures will be implemented to allow safe excavation:

- Pre-assessment of the likely chemicals and rate of vapour evolution.
- Minimising the area of contaminated materials exposed in the excavation.
- Maintenance of an air flow across the excavation away from the staff involved in the excavation.
- Provision of a cordon when required to protect other parties on and off-site:
  - the cordon area will operate all normal contaminated site rules such as prohibition of eating, drinking or smoking and requirements for full decontamination prior to leaving cordon.
- Monitoring at the staff locations and at the boundary cordon.
- Proh biting entry into the excavation until it is tested as clear.

- **No entry into any unsupported excavation will be permissible**. Safe rescue procedure will be established for recovery of a person in a trench / excavation.
- Provision and use of appropriate respiratory protective equipment (RPE) and personal protective equipment (PPE):
  - all staff in a cordoned area will wear disposable overalls and gloves, plus hi visibility waistcoats dedicated to use in contaminated areas.

UNEXPLODED ORDNANCE (UXO)

9.8 A site wide risk assessment for German air-dropped unexploded ordnance (UXO) was conducted by BAE Systems [Ref.14,15]. The objective of this document was to assess the potential to encounter UXO during the project, to evaluate implications of such an occurrence and to determine whether risk mitigation measures would be necessary. The assessment concluded that there was a moderate probability of German air-dropped UXO being encountered.

9.9 Site operatives will be trained in the identification of UXOs. They will be authorised to stop work and to seek assistance from MACC International (standby for on-site support) if encountered.

ENVIRONMENTAL CONTROLS

9.10 The key environmental controls are summarised below, with further details provided in the Code of Construction Practice:

- Wheel washes for vehicles.
- Hard surfaces for heavily-used haul roads.
- Control of vehicle speeds on site.
- Sweeping of any spillage.
- Wetting of roadways.
- Measures to prevent / minimise dust generation as outlined in further detail later in this Section.
- Only areas being worked will be exposed at any time.
- Where possible a layer of suitable material will be left on the surface when no work is anticipated.
- Stockpiles will be controlled by the siting, shaping, wetting, and covering / sealing of stockpiles wherever appropriate.
- Control of filling to prevent spillage in transit.
- Sheeting of loads.
- Demarcation of site into clean and dirty sides (if considered to be required based on encountered site conditions).
- Minimisation of all material transport and of transport between zones or off site.
- Health and safety controls will be in place throughout the works, which will be outlined in construction method statements specific to the works being undertaken.
- Inspection of the site by a suitably qualified member of the Nuttall Environment Team (or appointed specialist sub-contractor) to confirm the absence of protected and invasive species.

CONSTRUCTION PLANT

9.11 Plant will conform with the guidance outlined within the Code of Construction Practice, which details the maintenance and emission requirements to be followed.

NOISE AND VIBRATION

9.12 To be controlled and monitored in accordance with best practice (BS5228 ‘Code of practice for noise and vibration control on construction and open sites’) and the noise and vibration limits detailed in the Code of Construction Practice, and appropriate Local Authority consents obtained.

9.13 Specific work stage method statements and risk assessments will detail the plant utilised and demonstrate that the plant complies with statutory noise limits.

9.14 Perimeter noise monitoring will be undertaken by WSP Environmental under a separate contract with the LLDC and the results will be made available to Nuttall.

DUST CONTROL

9.15 Reference is made to the following guidance 'The Control of Dust and Emissions from Construction and Demolition' published by the GLA and London Councils in November 2006 in the adoption of dust control measures.

9.16 Perimeter dust monitoring will be undertaken by WSP Environmental under a separate contract with the LLDC and the results will be made available to Nuttall.

9.17 Table 9.1 below gives the assessment criteria currently in use:

TABLE 9.1 DUST ASSESSMENT CRITERIA

Pollutant	*Concentration*	*Measured as*
Dust	0.5% EAC/day [1]	'Possible Complaint'
	5%	'Serious Complaint'
Notes 1. Effective Area Coverage (Sticky Pad Methodology) – Beaman & Kingsbury (1981), *Assessment of Nuisance from Deposited Particulates Using a Simple and Inexpensive Measuring System,* Clean Air, Vol 11 No. 2 pp77-81), Ref.38		

9.18 All works involving asbestos should it be encountered shall be in accordance with the management system and the Asbestos Management Plan [Ref.16].

POLLUTION PREVENTION AND CONTROL

9.19 Site works are to be managed in accordance with best practice construction techniques including Environment Agency Pollution Prevention Guidelines (PPG) where applicable, most notably:

- PPG 1 (General guide to the prevention of pollution).
- PPG 2 (Above ground oil storage tanks).
- PPG 5 (Works and maintenance in or near water).
- PPG 6 (Working at construction and demolition sites, pollution prevention guidance).
- PPG 27 (Installation, decommissioning and removal of underground storage tanks) etc.

9.20 Where encountered, potential direct pathways, such as redundant drains, culverts, boreholes etc. will be reported to the Project Manager and appropriately removed / decommissioned where it is confirmed that they are not required to be maintained.

9.21 Tanks and drains will be emptied where encountered and the contents either:

- Treated on-site for disposal to foul sewer under consent.
- Taken for disposal off-site.

ECOLOGICAL MANAGEMENT

9.22 Ecological management of the site will be undertaken in accordance with the separately issued Legacy Transformation Ecological Management Plan [Ref. 17].

SURFACE AND GROUND WATER MANAGEMENT

9.23 If shallow groundwater / perched water is encountered within open excavations, this will be removed by pumping prior to backfilling where required, or alternatively the excavation will be backfilled with compliant self compacting granular fill.

9.24 Should dewatering of excavations be required, surface water and groundwater will be tested to assess whether it is suitable to be discharged to either foul sewer or surface water or disposed off-site, in accordance with

relevant regulations and permissions. The water would be sampled and tested for primary Contaminants of Concern (CoC) and other properties as per the receiving water companies consent to ensure compliance with any discharge conditions.

9.25 A programme of reassurance groundwater / surface water monitoring and reporting will be established during the course of the Transformation Works and will be undertaken by WSP Environmental under a separate contract with the LLDC. This monitoring is not required for validation purposes, however is expected to be reported to the Local Authorities / Regulators in line with previous similar reporting during the pre Games period.

MATERIALS MANAGEMENT

9.26 The Transformation Works development includes re-profiling works following the completion of the Olympic Games in 2012. This will be achieved largely through the excavation and re-distribution of site-derived soils, minimising the requirement for import of materials.

9.27 Refer to Appendix I for sampling and testing protocols as part of verification works where required.

MATERIALS MANAGEMENT PLAN

9.28 The Materials Management Plan (MMP) [Ref.18] will provide a clear framework for the excavation, management, import and reuse of site derived material. The MMP will be produced in accordance with the voluntary CL:AIRE 'Definition of Waste: Development Industry Code of Practice' and will as a minimum:

- Present the earthworks model to:
  - demonstrate the requirement for any material and its certainty of use; and,
  - define where able the quantity of material required.
- Provide the following information:
  - records to be maintained (including laboratory test suites and procedures etc);
  - details of any off site waste treatment / disposal facilities; and,
  - present appropriate reuse criteria (SSAC for the proposed end uses).
- Outline materials handling procedures (tracking system):
  - how the placement of materials and prove that excavated materials have been reused in the correct location and in the correct quantities within the works.

EXCAVATED MATERIALS

9.29 All excavation works will be completed in accordance with the 'Permit to Proceed Protocol' and excavation, supervision and verification works shall be carried out under the control of a suitably experienced Verification Engineer.

9.30 Excavated materials shall be segregated at the point of excavation based upon their remediated status and SSAC as follows (excavated materials from corresponding site areas with differing SSAC shall not be mixed unless prior assessment demonstrates it is suitable to do so):

- HHSL - above marker layer materials.
- General Fill - below marker layer materials.

FILL MATERIALS

9.31 Materials used for backfill will be derived from sources within the QEOP wherever practical. The integrity of site-won excavated material will be maintained by segregation of the material according to its chemical and geotechnical properties and the strata from which it was excavated. Where there is a shortage of suitable site won materials, imported materials will be utilised as required. Further details regarding the import of fill materials are included in Appendix H.

9.32 The deposition of fill will be undertaken in accordance with a separate geotechnical and horticultural Earthworks Specification to be produced. It is expected this will be similar to previous earthworks specifications used at the Olympic Park and detail the following as a minimum:

- General requirements for earthworks.
- Requirements for acceptability and testing of earthworks materials.
- Requirements for dealing with Class U1B and Class U2 unacceptable materials.
- Requirements for excavation, deposition and compaction.
- Preparation and surface treatment of sub-formation, capping and formation.
- Topsoil requirements.

STOCKPILE MANAGEMENT

9.33 Temporary stockpiles of excavated materials will be constructed to reduce rainwater infiltration and the release of odours or dust. This will be by either:

- securely covering; or,
- shaped to and compacted/sealed. In dry weather excessive dust will be controlled by water mist suppression.

9.34 If the water from the heap is likely to be contaminated then:

- The stockpile will be constructed on an impervious surface.
- Bunds will be provided to catch the contaminated run-off.

9.35 Stockpiles will be sited to be clear of waterways and public places where practical.

9.36 A stockpile register will be used to manage and control the content and use of stockpiles. This will record the source and quality of materials contained.

MATERIALS TRACKING

9.37 An on-site materials tracking system will be operated and will be detailed further in the MMP. It is proposed to use a bespoke materials tracking database, which will record all material movements both on and off-site to provide summaries including the following information:

- The source and destination of materials.
- The description of the materials.
- The date of the material movement.

9.38 For materials imported or exported from the QEOP, there will be the standard delivery and duty of care forms to record the movements of the loads.

WASTE MANAGEMENT

9.39 All off-site management of contaminated and surplus material will be undertaken within the framework of the MMP and in accordance with Environmental Permitting Regulations (England and Wales) 2010 and duty of care for waste, to a suitably permitted facility, by a suitably registered carrier.

UNFORESEEN CONDITIONS / REACTIVE STRATEGY

9.40 There is the potential during excavations, that previously unidentified contamination may be encountered, most notably where the marker layer is breached, and in unremediated areas [Ref.9].

9.41 The contamination may be a solid, liquid or gas. Although many different types of contamination may be encountered, this will normally be recognisable by displaying unusual visual, olfactory or physical properties. Examples include:

- Visual: Extremes of colour compared with surrounding ground, or very dark stained material – possibly very oily ground might be observed.
- Olfactory: Odorous materials, such as “chemical odour”, “hydrocarbon smell” or even “rotten eggs”. Difficulties in breathing might be encountered.

- Physical: Material not bearing any relation to surrounding ground, such as refuse materials, free oil/grease or fibrous matter (potentially asbestos).

9.42 Other instances may involve contamination which is not soil-bound, such as contaminants trapped as sludge or liquid in old basements, tanks etc. In such instances, excavations in the vicinity will cease whilst a decision is made as to how to test, contain and safely remove the material. All efforts will be made to prevent the spread / escape of mobile contamination. Should such be encountered, old tanks and liquid-filled basements will be sampled then arrangements made to empty their contents. These extracted contents will be sent off-site for disposal following assessment of test results. The tank, etc. will then be removed and the soil remaining around the structure will be inspected and sampled for contamination for verification against the relevant SSAC.

9.43 Site controls during construction works will comprise:

- Tool box talks for all site staff on the expected ground conditions and contamination.
- A watching brief on-site which will be maintained during excavation works, as discussed further in Section 10.1.
- If discovered, work will be temporarily suspended in areas where material with the above properties are found during excavation.
- The Verification Engineer will provide initial identification by inspection (Table 10.1), backed up by laboratory chemical testing where required. Materials displaying visual, olfactory or physical properties that may be suspected of representing a contamination risk will be identified and subjected to appropriate testing.
- Excavations may continue, subject to provision of suitable protective equipment as appropriate. On completion, verification of walls and floors in cleared excavations by the Verification Engineer to ensure no significant contaminants remain prior to backfilling and compaction.

9.44 Should unidentified contamination (i.e. a contaminant not previously identified in the relevant reports to date) be encountered then the regulators will be informed of any unforeseen contamination via a Change Note.

LICENSING AND OTHER PERMITS

9.45 Licences and other permits for works undertaken by Nuttall will be controlled by a site-wide 'Permits, Licences and Consents schedule' (Appendix J), which lists the documents that may be needed during the construction of the works. Those of primary concern in relation to the proposed Transformation Works are:

- LA consent for hours of working and construction noise etc.
- Discharges to sewer, where required.
- Discharges to Controlled Waters and to ground, where required.
- Registration of waste carriers, use of consignment notes and waste transfer notes.
- LAPPC Part B Permit for crushing and screening, where required.
- Materials Management Plan (MMP).

PROGRESS REPORTING

9.46 Monthly progress reports will be completed by Nuttall throughout the project and issued to the Project Manager. With specific regard to remediation and validation, the regular Remediation Forum meetings with the PPDT and relevant consultees will include a report on progress and allow any technical issues to be raised as they occur.

10. Earthworks Verification

EXCAVATED MATERIALS

10.1 Too box talks will be provided regarding identification of contamination for all staff involved in the supervision of excavation activities. A suitably experienced Verification Engineer will be on standby should any suspected contamination be encountered.

10.2 Where field observations identify suspected contamination, a visual and olfactory assessment of the excavated materials will be undertaken by the Verification Engineer based on the criteria in Table 10.1 in order that any unexpected contamination may be quarantined prior to further assessment.

TABLE 10.1 VISUAL AND OLFACTORY CRITERIA TO INFORM POTENTIAL ADDITIONAL ASSESSMENT

Contaminant / Site Conditions[1]	*Criteria*	
Complex Cyanide	Visual	Blue oxide staining
Polycyclic Aromatic Hydrocarbons (PAHs) and Coal Tar	Visual	Black liquid or semi-solid tar in veins or zones over 0.3m thickness. Heavily stained or coated surfaces. Solid tar/bitumen excluded.
	Olfactory[2]	Headspace[3] over 100ppm.
Mineral Oils (Total Petroleum Hydrocarbons)	Visual	Liquid oil, oil saturated solids in veins or zones over 0.3m. thickness. Heavily stained or coated surfaces.
	Olfactory[2]	Headspace[3] over 100ppm.
Buried tanks and associated Infrastructure	Visual	Presence of buried tanks and associated infrastructure during site works.
Asbestos	Visual	Presence of visual bu k fibres of potential asbestos containing material.
Notes. 1. Where multiple contaminants are present, the selection criteria for each contaminant will be applied sequentially, starting with the perceived major contaminant. 2. Olfactory assessment shall always be confirmed by headspace analysis. 3. Headspace analysis criteria shall be subject to cal bration of PID instruments.		

10.3 Further assessment of any exceedances of Table 10.1 will be undertaken comprising sampling and laboratory analysis in accordance with the requirements for fill deposition in areas previously unvalidated.

10.4 The Verification Engineer will visit the site for regular (minimum weekly) inspections to ensure that protocol is being followed correctly and to gather records for inclusion in the verification report.

SUB-GRADE

10.5 On completion of excavations the base (sub-grade) will be visually inspected for:

- Potential pathways to the lower strata such as the presence or absence of any boreholes / wells etc. which if encountered shall be reported to the Project Manager and decommissioned in accordance with the appropriate guidance.

FILL MATERIALS

10.6 The proposed sampling and testing strategy for fill materials within the Site is set out in Appendix F and is dependent upon the source and available data for each material type. Unless specifically stated otherwise, recovered samples will be tested for all contaminants with an SSAC.

AREAS OF PERMANENT HARDSTANDING

10.7 For areas of permanent hardstanding, all materials placed will be verified against the criteria for general fill (except volatile contaminants, which will be verified against the criteria for separation layer over the applicable initial depth, typically 600mm below FFL). This is because the hardstanding is considered to substitute for the separation layer in these circumstances, as outlined within the document titled Site Wide RMS Addendum (Use of Hardcover as a Substitute to the Separation Layer) [Ref.7]. This will only occur where the site specific RMS is submitted to the Local Planning Authority outlining the extent of the hardcover. Early indication of approval will be sought from the Local Planning Authority where poss ble via pre-application discussions with the relevant consultees, prior to formal submission of the RMS.

11. Validation Reporting

VALIDATION OBJECTIVES

11.1 The primary purpose of validation of the works is to demonstrate that:

- Where the existing remediation design has been identified as not effective in the context of the Transformation development end use; that appropriate development specific mitigation measures have been undertaken and been effective.
- Where the scope of the proposed Transformation Works has been identified as likely to compromise the effectiveness of the existing remediation, then appropriate general mitigation measures have been implemented and been effective.
- The materials at the site do not present an unacceptable risk to the human health of future site users or to Controlled Waters, based on the proposed Transformation development land use.

VALIDATION REPORTING

11.2 Validation of the Transformation Works will follow the process established at the QEOP through the preparation of a Final Consolidated Validation Report (CVR). Validation reporting will follow the guidance in CLR 11 and EA guidance on requirements for contaminated land reports.

11.3 The objectives of the CVR is to provide appropriate lines of evidence to demonstrate compliance with the proposed remedial strategy and therefore demonstrate to the Local Planning Authority that the site does not present an unacceptable risk to Transformation site users or to Controlled Waters. This includes the use of the extensive existing data wherever possible to support validation.

11.4 Statistical assessments, such as the use of proUCL and assessment of the UCL95 (representative mean) of sample populations against the SSAC may be used to support validation. This would include an assessment of any potential outliers. Use of such statistical assessments is consistent with the approach previously undertaken during validation reporting associated with the QEOP, particularly during the Enabling Works projects.

11.5 The proposed typical structure of the CVRs is detailed in Table 11.1 below.

TABLE 11.1 VALIDATION REPORTS KEY INFORMATION

Chapter Heading	*Key Information*
Introduction	▪ Works objectives ▪ Report objectives
Basis of Design	▪ Summary of site setting ▪ Proposed end use ▪ Previous works
Development of Remediation Design	▪ Human Health ▪ Controlled Waters
Implementation of Design (Transformation Works)	▪ Summary of works undertaken including a photographic record ▪ Description of materials used and encountered ▪ Evidence that any previous remediation (where applicable) has not been adversely affected (e.g. marker layer reinstatement, protection of boreholes) ▪ Details of any unexpected contamination encountered and how this was dealt with ▪ Sampling and testing ▪ Drawings or other records defining the extent of the verified works ▪ Materials management ▪ Safety, Health & Environment
Assessment Criteria	▪ Outline applicable assessment criteria used for human health and Controlled Waters
Verification	▪ Human health and Controlled Waters assessments of data
Conclusions	▪ Including a review of the outstanding actions from previous Olympic projects and the requirement for any further works ▪ Outline the restrictions for any future land use

11.6 The CVRs will additionally include a comprehensive list of any outstanding actions for future / Legacy developers and will detail any restrictions associated with the future land use.

12. References

12.1 The documents referenced within this report comprise the following:

1. Atkins 'PDZ15 Contamination Assessment Position Paper', dated January 2011 (ref. REP-ATK-CM-15Z-OLP-XXX-E-0002).
2. BAM Nuttall 'Olympic Park Operational Areas, PDZ 15: Northern Spectator Transport Mall [NSTM] Remediation Method Statement', dated February 2012 (ref. 7085-SBH-A15-W-MST-0006 rev. C05).
3. BAM Nuttall 'PDZ15 Operational Area: Northern Spectator Transport Mall (NSTM) Validation Report', dated March 2012 (ref. 7085-SBH-A15-W-REP-0005 rev. P02).
4. Capita Symonds Ltd 'Approach to the discharge of Legacy Transformation remediation related planning conditions', dated March 2012 (ref. LC401-APK-XXX-CM-REP-0001 revision P02).
5. Olympic Delivery Authority (ODA), 'Logistics Parameters', dated 4th July 2011 (ref. 0001-LTR-PWD-J-REP-0001 revision P03).
6. BAM Nuttall 'Olympic Park Operational Areas: Global Remediation Method Statement', dated February 2012 (ref. 7085-SBH-OSA-W-MST-0006-C03).
7. Atkins 'Site Wide RMS Addendum (Use of Hard Cover as a Substitute to the Separation Layer', dated 27th February 2009 (ref. 0241-ENW-ATK-LET-00269).
8. Atkins 'Process for the Discharge of Remediation Related Planning Conditions (Validation Reporting)', dated July 2010 (ref. 0001-ENW-PWD-J-PRO-0001).
9. Atkins 'Retained Areas Risk Assessment Report', dated January 2011 (ref. REP-ATK-CM-ZZZ-OLP-XXX-E-0007).
10. BAM Nuttall 'O&M Manual: Decommissioning and Protection of Retained Boreholes', dated 27th September 2011 (ref. MST-ENL-CE-ZZZ-OLP-SP1-E-0006).
11. Atkins 'Site Wide Soil Gas and Vapour Risks Briefing Note to Designers', dated August 2007 (ref. REP-ATK-CM-ZZZ-OLP-ZZZ-Z-0001).
12. Code of Construction Practice for the Queen Elizabeth Olympic Park [Transformation] (ref. LC001-LTR-APK-K-GUI-0001 Rev P02).
13. Atkins 'Permit to Proceed Protocol: Protection of Remediation Works on the Olympic Park, dated July 2009 (ref. PRO-ATK-CM-ZZZ-ZZZ-ZZZ-E-0003 Rev. 10).
14. BAE Systems 'Olympic Park South: Risk Assessment for German Air-dropped UXO', dated March 2007 (ref. PRO-ENL-CE-ZZZ-OLP-SP1-E-0009-01).
15. BAE Systems, 'Olympic Park North: Risk Assessment for German Air-dropped UXO', dated February 2007 (ref. REP-MOR-CE-ZZZ-OLP-SP1-E-0001).
16. Atkins 'Maintenance of Final Build Layer and Topsoil (Asbestos in Soils) Management Plan', dated August 2010 (ref: REP-ATK-CM-ZZZ-OLP XXX-E-0008 Rev 04).
17. BAM Nuttall 'Legacy Transformation Ecological Management Plan', dated July 2012 (ref. LC401-LTR-ENV-W-REP-0001).
18. Capita Symonds Ltd 'Materials Management Plan', dated October 2012 (ref. LC401-LCI-APK-CM-PLN-0004 revision P02).

12.2 Additionally further relevant documents that have been reviewed are referenced in Appendices D and E.

A. Drawings / Figures

BAM Nuttall ‘Olympic Park Transformation: Changes to Sectional Completion Zones boundaries, dates & scope of works’ [Ref. LC401-LPR-APK-L-DSP-0003 rev P15].

PPDT Planning Boundary Extract

EDAW ‘Olympic Park Site Plan’ [Ref. MPO-ALM-PWD-URB-DR-T-5-B16-0111 rev.03]

EDAW ‘Illustrative Transformation Masterplan’ [Ref. 775ALM-VEP-OLM-A-DSP-0001 rev. P03].

EDAW ‘Park Wide Design’ [Ref. OLY-OLF-ILL-DWG-STW-007 rev.00].

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- SC18 till Easter 2014)

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AREA ID	DESCRIPTION	DATE
01	ETON MANOR SPORTS COMPLEX	23/11/12
02	DRAPERS FIELD	29/10/12
03	MOL	31/10/12
04	OV TRANSPORT MALL	20/12/12
05	BMX START RAMP	23/11/12
06	BP	23/11/12
07	HOCKEY	23/11/12
08	IBC/MPC	31/01/13
09	HANDBALL	23/11/12
10	ZONE 4 BoH	22/10/12
11	STADIUM	15/12/12
12	McDONALD'S ZONE 2	23/11/12
13	WARTON ROAD PLAZA	23/11/12
14	BMW	23/11/12
15	BT WALK IN THE PARK	01/11/12
16	WATERPOLO	31/10/12
17	EASTERN PLAZA	23/11/12

OLYMPIC PARK FENCE
TRANSFORMATION BNL
LOCOG AREAS

AQUATICS TRANSFORMATION
WHITE SPACE - Ha d ba k a eas
THIRD PARTY
LEGACY FM (BBW)
ODA

bam nuttall

Q O

NORTH

Main Marsh

Hackney Marsh
(Recreation Grounds)

LEYTON

LB WALTHAM FOREST

LB HACKNEY

LB NEWHAM

Temple Mills

Stratford New Town

Hackney Wick

STRATFORD

Stratford Marsh

Old Ford

LB TOWER HAMLETS

BOW

Mill Meads

London Legacy Development Corporation Area

KEY

London Legacy Development Corporation boundary

Borough boundaries

NORTHERN SPECTATOR TRANSPORT MALL
ACCREDITATION CHECKING
ACCREDITATION CHECKING
WIND TURBINE
OLYMPIC TRAINING AREA
TEMPLE MILLS LANE
L01
U01
SS 1W
SS 1E
E13
LOOP ROAD
NORTH ROAD (NEW EASTWAY)
U05
F01
T07
SS 2
VELODROME
BMX
HOCKEY
F02
SS 6
ACCREDITATION CHECKING
INTERNATIONAL BROADCAST CENTRE
MAIN PRESS CENTRE
SS 5
SS 4
F05
F03
SS 7
BASKETBALL ARENA
OLYMPIC VILLAGE
T13
F13
Satellite compound
H10*
T08
HANDBALL ARENA
L03A
Stratford International
OLYMPIC FAMILY TRANSPORT MALL
H23
CCHP
SSB 13
SSB 12
KINGS YARD
L03B
H08
SPONSORS HOSPITALITY
STRATFORD CITY MIXED-USE TOWN CENTRE
Hackney Wick
SS 10
F06
F09
SSB 11
WATERPOLO
ACCREDITATION CHECKING
H14*
T09
F07
F08
F10A
Stratford Regional
AQUATICS CENTRE
F10B
H16*
T10
F17
F11
SS 8
OLYMPIC STADIUM
H05
H17
H04
E41
H07
SS 9
U03
ACCREDITATION CHECKING
F14
GREENWAY
LOOP ROAD
H06
ACCREDITATION CHECKING
ATHLETE LINK
U06
U02
U07
WARM-UP AREA
Pudding Mill Lane
T12
QUEUING AREA
E50
E49
ACCREDITATION CHECKING
SOUTHERN SPECTATOR TRANSPORT MALL
BOW SUBSTATION
Abbey Road
WEST HAM RAMP
West Ham

LEGEND

- PLANNING APPLICATION SITE BOUNDARY
- SECURITY FENCES
- PLANNING PARAMETERS
- CTRL
- UTILITY SERVICE CORRIDORS
- HED MAIN STADIUM PODIUM
- RIVER + CANAL (WATERWAYS)
- PROPOSED INTEGRATION ZONE A
- FIELD OF PLAY
- ATHLETES AREAS
- BROADCAST AREA
- SPECTATORS AREAS
- FRONT OF HOUSE
- BACK OF HOUSE
- POTENTIAL BACK OF HOUSE
- ACCREDITATION CHECKING
- UTILITIES
- TRANSPORT AREAS
- UNALLOCATED AREA
- WETLANDS
- PPR
- NATURE RESERVE

NOTE
1. PLEASE NOTE THAT THIS SUPERSEDES MPO-ALM-ZZZ-XXX-DR-Z-5-B16-0111 Revision 01
2. PLEASE NOTE THAT THIS SUPERSEDES 2DD-ALM-ZZ-ZZZ-ZZZ-XXX-O-0111 Revision 03
3. FOR DETAILS OF REVISIONS, SEE OLYMPIC SITE PLAN UPDATE REGISTER

Do not scale this drawing.

Rev	Description	Drawn	Chk'd	Date
01	FOR INFORMATION	AMG	ET	23.05.08

FILENAME: $FILENAME PLOT DATE: $PLOTDATE PLOT TIME: $PLOTTIME

Safety, Health and Environment Information
In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following risks and information:

Construction	NO UNUSUAL RISKS
Dismantling / Demolition (Future)	NO UNUSUAL RISKS

For information relating to Use, Cleaning and Maintenance see the Health and Safety File.
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

Creator: Prepared by EDAW CONSORTIUM On behalf of the ODA

Project Title: MASTERPLAN OVERSIGHT

Drawing Title: OLYMPIC PARK SITE PLAN

Drawn	Checked	Approved
AMG	ET	RH/CLM
Scale (A0) 1:2500	Date 23 MAY 2008	Status APPROVED
Purpose of Drawing: FOR INFORMATION	Rev. 01	Vers. -

Drawing No.: MPO-ALM-PWD-URB-DR-T-5-B16-0111

Document Identification

Contract No.	Project	Area	Disc.	Category	Sequence	Sheet No.
XXXX	XXX	XXX	X	XXX	####	##

EAST MARSH FOOTBALL PITCHES
ETON MANOR
LEYTON
WALTHAM FOREST
MARSHALL ROAD
HOMERTON ROAD
BMX
VELODROME
CHOBHAM FARM SCHOOL
MSCP
former MPC
former IBC
RIVER LEA
HACKNEY
RIVER LEE
ATHLETES VILLAGE
DLR STATION
STRATFORD INTERNATIONAL
MUSV
HACKNEY WICK
HERTFORD UNION CANAL
NAVIGATION
STRATFORD CITY MIXED-USE TOWN CENTRE
STRATFORD REGIONAL
AQUATICS CENTRE
WATER WORKS
CITY MILL
OLD RIVER LEA
OLYMPIC STADIUM
NEWHAM
STRATFORD HIGH STREET
ALLOTMENTS
GREENWAY
PUDDING MILL LANE
DLR STATION
CROSSRAIL
BOW SUBSTATION
EAST CROSS ROUTE
KEY

Do not scale this drawing.
Notes:

New Northern Parklands scope boundary

Rev	Description	Drawn	Chk'd	Date
P03	For Information	HG	GH	10/02/12
P02	For Information	HG	GH	08/12/11
P01	For Information	HB	GH	29/11/11

Safety, Health and Environment Information
In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following risks and information:

Construction	
Dismantling / Demolition (Future)	

For information relating to Use, Cleaning and Maintenance see the Health and Safety File. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Creator
Prepared by
EDAW CONSORTIUM
On behalf of the OPLC

Drawing Title
ILLUSTRATIVE TRANSFORMATION MASTERPLAN

Project Title
New Northern Parklands

Drawn	Checked	Approved
HB	GH	GH

Date	Scale	Size
29 Nov 2011	1:2500	A0

Purpose of Drawing	Suitability
For Information	D5

Drawing No. 775ALM-VEP-OLM-A-DSP-0001
Sheet,
Rev. P03

FILENAME: $FILENAME
PLOT DATE: $PLOTDATE
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B. Relevant Planning Conditions

Permission Ref	Permission Name	Condition Number	Condition Heading	Condition Wording
07/90010/OUMODA	2007 OLY LTD	LTD.1.14	Quality of imported fill	No soils or infill materials (including silt dredged from watercourses) shall be imported onto the Site until it has been satisfactorily demonstrated that they present no risk to human health planting and the environment. Documentary evidence to confirm the origin of all imported soils and infill materials supported by appropriate chemical analysis test results shall be submitted to and approved by the Local Planning Authority prior to that import. The import onto the Site of material classified as waste is only acceptable with the prior approval of the Local Planning Authority
07/90010/OUMODA	2007 OLY LTD	LTD.16	Protection and enhancement of remediation	Before 31 December 2012 a method statement shall be submitted to the Local Planning Authority for approval indicating how the integrity of the remediation measures installed for the Olympic development will be maintained and any necessary enhancement or alterations to those measures are to be installed. This condition may be discharged on a Legacy Transformation Work Zone basis.
07/90010/OUMODA	2007 OLY LTD	LTD.1.12	Remediation monitoring	Approved post-remediation monitoring and maintenance of the remediated land shall continue as set out in the validation reports until such dates or events as are approved by the Local Planning Authority.
07/90010/OUMODA	2007 OLY LTD	LTD.1.13	Unexpected contamination	If at any time during the construction of the Legacy Transformation development contamination is encountered which was not previously identified or treated or has been brought to the surface by construction activity construction work in that Construction Zone shall not proceed (except to the extent that it would not further disturb that contamination) until a Remediation Change Note containing an assessment of that contamination and a scheme and timetable to contain treat or remove it has been submitted to and approved by the Local Planning Authority and any necessary remediation has been carried out.

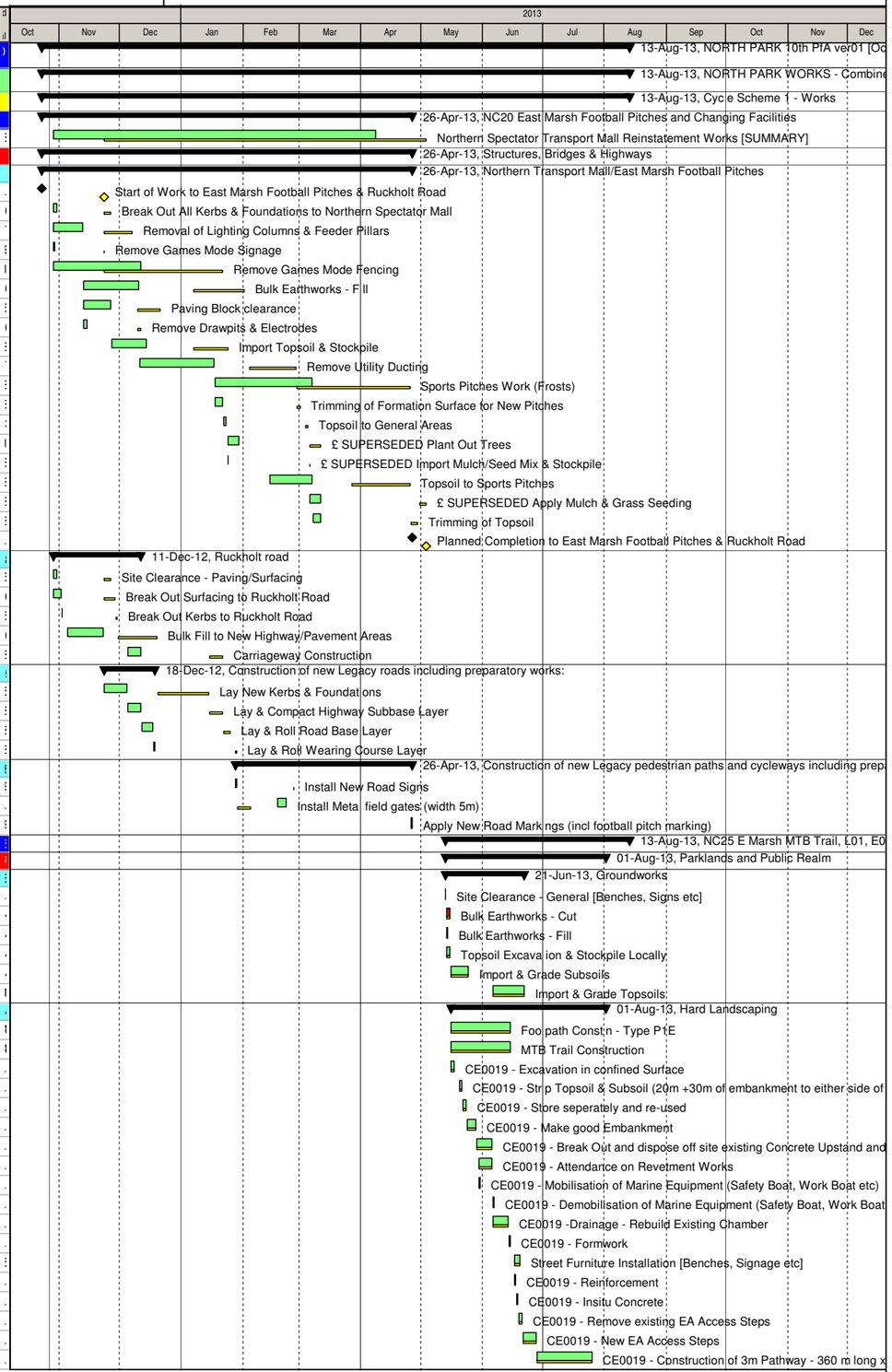
C. Programme of Works

Project id: LLDC-NP10PfA-01
Project name: NORTH PARK 10th PfA ver01 [Oct 2012] - Resubmission

Olympic Delivery Authority - Legacy Works
BAM Nuttall Programme for Acceptance

Data Date: 27-Oct-12

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	BL1 Start	BL1 Finish	Variance BL1 Finish Date
NORTH PARK 10th PfA ver01 [Oct 2012] - Resubmission		189	23-Oct-12 A	13-Aug-13	5	23-Nov-12	13-Aug-13	0
NORTH PARK WORKS - Combined		189	23-Oct-12 A	13-Aug-13	5	23-Nov-12	13-Aug-13	0
Cycle Scheme 1 - Works		189	23-Oct-12 A	13-Aug-13	5	23-Nov-12	13-Aug-13	0
NC20 East Marsh Football Pitches and Changing Facilities		114	23-Oct-12 A	26-Apr-13	0	23-Nov-12	03-May-13	5
NTM.1000	Northern Spectator Transport Mall Reinstatement Works [SUMMARY]	100	29-Oct-12	08-Apr-13	14	23-Nov-12	03-May-13	19
Structures, Bridges & Highways		114	23-Oct-12 A	26-Apr-13	0	23-Nov-12	03-May-13	5
Northern Transport Mall/East Marsh Football Pitches		114	23-Oct-12 A	26-Apr-13	0	23-Nov-12	03-May-13	5
X3100	Start of Work to East Marsh Football Pitches & Ruckholt Road	0	23-Oct-12 A			23-Nov-12		23
D1810	Break Out All Kerbs & Foundations to Northern Spectator Mall	2	29-Oct-12	30-Oct-12	92	23-Nov-12	26-Nov-12	9
R2600	Removal of Lighting Columns & Feeder Pillars	11	29-Oct-12	12-Nov-12	28	23-Nov-12	07-Dec-12	19
R2610	Remove Games Mode Signage	1	29-Oct-12	29-Oct-12	93	23-Nov-12	23-Nov-12	19
R2620	Remove Games Mode Fencing	32	29-Oct-12	11-Dec-12	62	23-Nov-12	21-Jan-13	19
NTM.1020	Bulk Earthworks - Fill	20	13-Nov-12	10-Dec-12	28	07-Jan-13	01-Feb-13	29
NTM.1040	Paving Block clearance	10	13-Nov-12	26-Nov-12	28	10-Dec-12	21-Dec-12	19
R2640	Remove Drawpits & Electrodes	2	13-Nov-12	14-Nov-12	81	10-Dec-12	11-Dec-12	9
G2050	Import Topsoil & Stockpile	14	27-Nov-12	14-Dec-12	56	07-Jan-13	24-Jan-13	19
R2630	Remove Utility Ducting	18	11-Dec-12	17-Jan-13	28	04-Feb-13	27-Feb-13	29
NTM.1010	Sports Pitches Work (Frosts)	35	18-Jan-13	07-Mar-13	28	28-Feb-13	25-Apr-13	29
D1820	Trimming of Formation Surface for New Pitches	2	18-Jan-13	21-Jan-13	45	28-Feb-13	01-Mar-13	29
G2070	Topsoil to General Areas	2	22-Jan-13	23-Jan-13	53	04-Mar-13	05-Mar-13	29
G2090	£ SUPERSEDED Plant Out Trees	4	24-Jan-13	29-Jan-13	53	06-Mar-13	11-Mar-13	29
G2095	£ SUPERSEDED Import Mulch/Seed Mix & Stockpile	1	24-Jan-13	24-Jan-13	56	06-Mar-13	06-Mar-13	29
G2060	Topsoil to Sports Pitches	16	14-Feb-13	07-Mar-13	28	27-Mar-13	25-Apr-13	29
G2100	£ SUPERSEDED Apply Mulch & Grass Seeding	4	06-Mar-13	11-Mar-13	28	30-Apr-13	03-May-13	33
G2080	Trimming of Topsoil	2	08-Mar-13	11-Mar-13	28	26-Apr-13	29-Apr-13	29
X3110	Planned Completion to East Marsh Football Pitches & Ruckholt Road	0		26-Apr-13	0		03-May-13	5
Ruckholt road		32	29-Oct-12	11-Dec-12	72	23-Nov-12	21-Jan-13	19
NTM.1030	Site Clearance - Paving/Surfacing	2	29-Oct-12	30-Oct-12	75	23-Nov-12	26-Nov-12	19
D1830	Break Out Surfacing to Ruckholt Road	4	29-Oct-12	01-Nov-12	72	23-Nov-12	28-Nov-12	9
D1840	Break Out Kerbs to Ruckholt Road	1	02-Nov-12	02-Nov-12	72	29-Nov-12	29-Nov-12	19
G2000	Bulk Fill to New Highway/Pavement Areas	14	05-Nov-12	22-Nov-12	72	30-Nov-12	19-Dec-12	9
NTM.1050	Carriageway Construction	5	05-Dec-12	11-Dec-12	72	15-Jan-13	21-Jan-13	19
Construction of new Legacy roads including preparatory works:		18	23-Nov-12	18-Dec-12	72	20-Dec-12	28-Jan-13	19
G2010	Lay New Kerbs & Foundations	8	23-Nov-12	04-Dec-12	72	20-Dec-12	14-Jan-13	19
G2020	Lay & Compact Highway Subbase Layer	5	05-Dec-12	11-Dec-12	72	15-Jan-13	21-Jan-13	19
G2030	Lay & Roll Road Base Layer	4	12-Dec-12	17-Dec-12	72	22-Jan-13	25-Jan-13	19
G2040	Lay & Roll Wearing Course Layer	1	18-Dec-12	18-Dec-12	72	28-Jan-13	28-Jan-13	19
Construction of new Legacy pedestrian paths and cycleways including preparatory work		59	28-Jan-13	26-Apr-13	0	29-Jan-13	26-Apr-13	0
G2120	Install New Road Signs	1	28-Jan-13	28-Jan-13	58	26-Feb-13	26-Feb-13	21
G2130	Install Metal field gates (width 5m)	5	18-Feb-13	22-Feb-13	39	29-Jan-13	04-Feb-13	-14
G2110	Apply New Road Markings (incl football pitch marking)	1	26-Apr-13	26-Apr-13	0	26-Apr-13	26-Apr-13	0
NC25 E Marsh MTB Trail, L01, E06 Boardwalk & Connection North MBT		66	13-May-13	13-Aug-13	5	13-May-13	13-Aug-13	0
Parklands and Public Realm		58	13-May-13	01-Aug-13	8	13-May-13	01-Aug-13	0
Groundworks		29	13-May-13	21-Jun-13	29	13-May-13	21-Jun-13	0
PPR.5150	Site Clearance - General [Benches, Signs etc]	1	13-May-13	13-May-13	0	13-May-13	13-May-13	0
PPR.5160	Bulk Earthworks - Cut	2	14-May-13	15-May-13	0	14-May-13	15-May-13	0
PPR.2980	Bulk Earthworks - Fill	1	14-May-13	14-May-13	37	14-May-13	14-May-13	0
PPR.5940	Topsoil Excavation & Stockpile Locally	2	14-May-13	15-May-13	43	14-May-13	15-May-13	0
PPR.5170	Import & Grade Subsoils	7	16-May-13	24-May-13	36	16-May-13	24-May-13	0
PPR.5190	Import & Grade Topsoils	12	06-Jun-13	21-Jun-13	29	06-Jun-13	21-Jun-13	0
Hard Landscaping		55	16-May-13	01-Aug-13	8	16-May-13	01-Aug-13	0
PPR.5220	Footpath Const'n - Type P1E	21	16-May-13	14-Jun-13	38	16-May-13	14-Jun-13	0
PPR.5250	MTB Trail Construction	21	16-May-13	14-Jun-13	29	16-May-13	14-Jun-13	0
PPR.5230	CE0019 - Excavation in confined Surface	2	16-May-13	17-May-13	8	16-May-13	17-May-13	0
PPR.5290	CE0019 - Strip Topsoil & Subsoil (20m +30m of embankment to either side of the Bridge E06)	2	20-May-13	21-May-13	8	20-May-13	21-May-13	0
PPR.5330	CE0019 - Store seperately and re-used	2	22-May-13	23-May-13	8	22-May-13	23-May-13	0
PPR.5340	CE0019 - Make good Embankment	2	24-May-13	28-May-13	8	24-May-13	28-May-13	0
PPR.5430	CE0019 - Break Out and dispose off site existing Concrete Upstand and ADIT Chamber	6	29-May-13	05-Jun-13	8	29-May-13	05-Jun-13	0
PPR.5460	CE0019 - Attendance on Revetment Works	5	30-May-13	05-Jun-13	13	30-May-13	05-Jun-13	0
PPR.5470	CE0019 - Mobilisation of Marine Equipment (Safety Boat, Work Boat etc)	1	30-May-13	30-May-13	17	30-May-13	30-May-13	0
PPR.5480	CE0019 - Demobilisation of Marine Equipment (Safety Boat, Work Boat etc)	1	06-Jun-13	06-Jun-13	13	06-Jun-13	06-Jun-13	0
PPR.5710	CE0019 -Drainage - Rebuild Existing Chamber	6	06-Jun-13	13-Jun-13	8	06-Jun-13	13-Jun-13	0
PPR.5570	CE0019 - Formwork	1	14-Jun-13	14-Jun-13	8	14-Jun-13	14-Jun-13	0
PPR.5260	Street Furniture Installation [Benches, Signage etc]	3	17-Jun-13	19-Jun-13	39	17-Jun-13	19-Jun-13	0
PPR.5700	CE0019 - Reinforcement	1	17-Jun-13	17-Jun-13	8	17-Jun-13	17-Jun-13	0
PPR.5500	CE0019 - Insitu Concrete	1	18-Jun-13	18-Jun-13	8	18-Jun-13	18-Jun-13	0
PPR.5240	CE0019 - Remove existing EA Access Steps	2	19-Jun-13	20-Jun-13	8	19-Jun-13	20-Jun-13	0
PPR.5860	CE0019 - New EA Access Steps	5	21-Jun-13	27-Jun-13	8	21-Jun-13	27-Jun-13	0
PPR.5730	CE0019 - Construction of 3m Pathway - 360 m long x 3 m wide	20	28-Jun-13	25-Jul-13	8	28-Jun-13	25-Jul-13	0



Remaining Work
Actual Work
Critical Remaining Work
Remaining Level of E fort
Primary Baseline
Base
Sum
Milestone

Layout: OPLC: Std WBS for Internal BNL
Baseline: LLDC-NP10PfA-1 - B1

TASK filters: Excl: Completed more than DD-5W, NC Area.

Date	Revision	Checked	Approved
16-Nov-12			

Project id: LLDC-NP10PfA-01
Project name: NORTH PARK 10th PfA ver01 [Oct 2012] - Resubmission

Olympic Delivery Authority - Legacy Works
BAM Nuttall Programme for Acceptance

Data Date: 27-Oct-12

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	BL1 Start	BL1 Finish	Variance BL1 Finish Date
PPR.5800	CE0019 - Replace Revetment - 40 m long x 3.5 m wide	4	26-Jul-13	31-Jul-13	8	26-Jul-13	31-Jul-13	0
PPR.5970	CE0019 - Extend Blank Cladding to new GL	1	01-Aug-13	01-Aug-13	8	01-Aug-13	01-Aug-13	0
Soft Landscaping		55	16-May-13	01-Aug-13	8	16-May-13	01-Aug-13	0
PPR.5300	Plant Semi Mature Trees	5	16-May-13	22-May-13	58	16-May-13	22-May-13	0
PPR.5310	Shrub & Over Planting	12	13-Jun-13	28-Jun-13	29	13-Jun-13	28-Jun-13	0
PPR.5320	Seeding	11	19-Jun-13	03-Jul-13	29	19-Jun-13	03-Jul-13	0
PPR.6370	NC25 PPR Works Complete	0		01-Aug-13	8		01-Aug-13	0
Structures Bridges and Highways		66	13-May-13	13-Aug-13	5	13-May-13	13-Aug-13	0
Olympic Park Security Fence		16	13-May-13	04-Jun-13	0	13-May-13	04-Jun-13	0
D2130	Remove Site Security Fencing	16	13-May-13	04-Jun-13	0	13-May-13	04-Jun-13	0
L01 north approach		50	05-Jun-13	13-Aug-13	0	05-Jun-13	13-Aug-13	0
D2140	Excavation, Trimming, & Disposal of Surface Material	1	05-Jun-13	05-Jun-13	0	05-Jun-13	05-Jun-13	0
D2150	Remove Large Lighting Columns	25	06-Jun-13	10-Jul-13	0	06-Jun-13	10-Jul-13	0
D2160	Removal of All LV & Utility Ducting	16	11-Jul-13	01-Aug-13	0	11-Jul-13	01-Aug-13	0
D2170	Break Out & Remove All Chambers	8	02-Aug-13	13-Aug-13	0	02-Aug-13	13-Aug-13	0
Bridge L01		52	22-May-13	02-Aug-13	12	21-May-13	01-Aug-13	-1
Pre-Construction		10	22-May-13	05-Jun-13	14	21-May-13	04-Jun-13	-1
L01.1010	Removal of haul routes if required	10	22-May-13	05-Jun-13	13	21-May-13	04-Jun-13	-1
L01.1020	Levelling area	10	22-May-13	05-Jun-13	12	21-May-13	04-Jun-13	-1
L01.1030	Installation of welfare and cabins	10	22-May-13	05-Jun-13	14	21-May-13	04-Jun-13	-1
L01.1040	Installation of Crane Platform	10	22-May-13	05-Jun-13	13	21-May-13	04-Jun-13	-1
L01.1050	Installation of Footpaths and Walking routes	10	22-May-13	05-Jun-13	14	21-May-13	04-Jun-13	-1
L01.1060	Site Set Up	10	22-May-13	05-Jun-13	12	21-May-13	04-Jun-13	-1
Deconstruction		52	22-May-13	02-Aug-13	12	21-May-13	01-Aug-13	-
L01.1070	Installation of service protection procedure: slab etc.	0	22-May-13	22-May-13	20	21-May-13	21-May-13	-1
L01.1080	Identify location of crane	1	22-May-13	22-May-13	13	21-May-13	21-May-13	-1
L01.1110	Assess whether other services need disconnecting	1	24-May-13	24-May-13	13	23-May-13	23-May-13	-1
L01.1090	Visual inspection of bridge prior to start	1	30-May-13	30-May-13	13	29-May-13	29-May-13	-1
L01.1100	Disconnect street lights	2	30-May-13	31-May-13	13	29-May-13	30-May-13	-1
L01.1120	Remove street lights and furniture (using cherry picker)	2	03-Jun-13	04-Jun-13	13	31-May-13	03-Jun-13	-1
L01.1190	mobilise crane	3	03-Jun-13	05-Jun-13	13	31-May-13	04-Jun-13	-1
L01.1130	Testing of lifting eyes	1	04-Jun-13	04-Jun-13	15	03-Jun-13	03-Jun-13	-1
L01.1150	Set out location of crane	1	06-Jun-13	06-Jun-13	12	05-Jun-13	05-Jun-13	-1
L01.1140	Testing of platform (plate bearing test)	1	07-Jun-13	07-Jun-13	12	06-Jun-13	06-Jun-13	-1
L01.1160	Lift out bridge structure	2	10-Jun-13	11-Jun-13	12	07-Jun-13	10-Jun-13	-1
L01.1170	Deconstruct bridge	10	12-Jun-13	25-Jun-13	12	11-Jun-13	24-Jun-13	-1
L01.1180	Remove to BH	10	26-Jun-13	09-Jul-13	23	25-Jun-13	08-Jul-13	-1
L01.1200	Break concrete abutments and back seat (E & W)	3	26-Jun-13	28-Jun-13	12	25-Jun-13	27-Jun-13	-1
L01.1210	Complete retaining wall	4	01-Jul-13	04-Jul-13	12	28-Jun-13	03-Jul-13	-1
L01.1220	Break down columns in road and make good	10	04-Jul-13	17-Jul-13	17	03-Jul-13	16-Jul-13	-1
L01.1230	Install new hand rails	3	08-Jul-13	10-Jul-13	12	05-Jul-13	09-Jul-13	-1
L01.1240	Reinstate crane platform area	10	11-Jul-13	24-Jul-13	12	10-Jul-13	23-Jul-13	-1
L01.1250	move remainder of material to BH	3	25-Jul-13	29-Jul-13	12	24-Jul-13	26-Jul-13	-1
L01.1270	demobilise satilite site	5	29-Jul-13	02-Aug-13	12	26-Jul-13	01-Aug-13	-1
L01.1260	Backfill/ Profile the area	4	30-Jul-13	02-Aug-13	12	29-Jul-13	01-Aug-13	-1
Bridge E06 - Option 2		21	13-May-13	11-Jun-13	45	13-May-13	11-Jun-13	0
P1300	Install Piles, Cut Off & Test	5	13-May-13	17-May-13	45	13-May-13	17-May-13	0
C1800	Create Shuttering, Erect Shuttering, Steel Fix, & Pour Parapets	5	20-May-13	24-May-13	45	20-May-13	24-May-13	0
K1100	Place Steel Beams & Substructure	6	28-May-13	04-Jun-13	45	28-May-13	04-Jun-13	0
K1110	Install Grated Flooring	5	05-Jun-13	11-Jun-13	45	05-Jun-13	11-Jun-13	0

Remaining Work
Actual Work
Critical Remaining Work
Remaining Level of E fort
Primary Baseline
M lestone
Base
Sum

Layout: OPLC: Std WBS for Internal BNL
Baseline: LLDC-NP10PfA-1 - B1

TASK filters: Excl: Completed more than DD-5W, NC Area.

Date	Revision	Checked	Approved
16-Nov-12			

D. Review of Outstanding Actions and Restrictions

Summary of Outstanding Actions Restrictions from Review of Available Consolidated Validation Reports [CVRs]

PDZ	CZ	Reference	Table	Item	Title	Description	Responsibility	Status	Action completed by Enabling Works / FoPs	Any outstanding remedial actions to be completed by FoPs / Bump Out	Any outstanding remedial actions to be completed by Transformation
15	15	11. Validation Report	4a	1	Suitable infrastructure design	Structures should be designed recognising the chemical and other characteristics of the stratum in which they are founded. Sections in contact with potentially contaminated materials may need to be resistant to chemical attack, particularly by sulphates.	Designer / FoPs	Restrictions		***NA***	***Compliance.***
15	15	11. Validation Report	4a	2	Suitable methods to protect contamination pathways	Consideration of design and construction methods (for example, choice of suitable pile design and construction methods) to avoid creation of pathways to lower aquifers.	Designer / FoPs	Restrictions		***NA***	***Compliance.***
15	15	11. Validation Report	4a	3	Ground gas / vapour assessment	Assessment of soil gas and soil vapour hazard during the building construction design phase, in accordance with the recommendations of the Position Paper (Ref. 1).	Designer / FoPs	Restrictions		***NA***	***NA - No enclosed structures proposed as part of Nuttall Transformation scope.***
15	15	11. Validation Report	4a	4	Completion of the NSTM	Additional works by others [primarily LOCOG], prior to the Olympic Games to complete the NSTM. This is expected to primarily comprise the addition of temporary structures.	Designer / FoPs	Outstanding Works	TBC	***Action required to submit and gain approval for final Stage 2 & Stage 3 CVRs.***	***NA***
15	15	11. Validation Report	4a	5	Reinstatement of the site and return to land owner.	In accordance with the Position Paper (Ref. 1), the wider site is to be occupied for the Olympic land use only, prior to reinstatement and return to the land owner. Transformation of the site following the Olympic Games is subject to separate detailed design and Planning Authority / stakeholder approval, which is not covered by the Position Paper (Ref. 1), the RMS (Ref. 2a & 2b) or subsequently this validation report.	LLDC / future land owners and developers	Outstanding Works	NA	***NA***	***Refer to Capita Symonds RIA and appended PDZ15 Position Statement for assessment due to proposed Transformation land use of playing fields.***
15	15	11. Validation Report	4b	1	Excavation of soils at the Site	The Permit To Proceed Protocol (Ref. 5) must be implemented when excavating at the site. Arisings from excavations shall be treated as contaminated unless proven otherwise. A review of available data relating to the condition of the soils at the Site should be undertaken prior to any excavation and appropriate precautions must be undertaken. The human health assessment presented in this report does not consider risks to construction or maintenance workers when validating the site. It is considered that following an appropriate risk assessment, any risks to construction workers will probably be safely mitigated through PPE and suitable engineering precautions.	FoPs / future land owners and developers	Restrictions		***NA***	***Compliance.***
15	15	11. Validation Report	4b	2	Risk assessments	In addition to risk assessments outlined above regarding excavation of soils at the Site, appropriate risk assessments will need to be undertaken with respect to UXO, pathogens, asbestos and ground gas / vapours when undertaking excavations at the Site.	FoPs / future land owners and developers	Restrictions		***NA***	***Compliance.***
15	15	11. Validation Report	4b	3	Future land use	Any future uses of the site must comply with the Position Paper (Ref. 1) definition, which applies to the Olympic land use only. The areas designated for different land uses shall not be amended without reassessment of the soil conditions. Transformation of the site following the Olympic Games is subject to separate detailed design and Planning Authority / stakeholder approval, which is not covered by the Position Paper (Ref. 1), the RMS (Ref. 2a, 2b) or subsequently this validation report.	LLDC / future land owners and developers	Restrictions		***NA***	***Refer to Capita Symonds RIA and appended PDZ15 Position Statement for assessment due to proposed Transformation land use of playing fields.***
15	15	11. Validation Report	4b	4	Changes in final level	Changes to design levels reducing them at all will need a reassessment of the underlying soil and potentially additional investigation or remediation.	FoPs / future land owners and developers	Restrictions	NA	***NA***	***Refer to Capita Symonds RIA and appended PDZ15 Position Statement for assessment due to proposed Transformation land use of playing fields.***

Those outstanding actions marked as NA (not applicable) within the below referenced reports are not included herein as they have already been closed out.

The following information sources are referenced:

1. Draft FoP (Stage 2) CVR - PDZ1 [ref.REP-ATK-PM-01Z-ZZZ-ZZZ-Z-0001], Feb 2012
2. Draft FoP (Stage 2) CVR - PDZ2 [ref.REP-ATK-PM-02Z-ZZZ-ZZZ-Z-0001], Feb 2012
3. Draft FoP (Stage 2) CVR - PDZ3 [ref.REP-ATK-PM-03Z-ZZZ-ZZZ-Z-0001], March 2012
4. Draft FoP (Stage 2) CVR - PDZ4 [ref.REP-ATK-PM-04Z-ZZZ-ZZZ-Z-0001], Feb 2012
5. Draft FoP (Stage 2) CVR - PDZ5 [ref.REP-ATK-PM-05Z-ZZZ-ZZZ-Z-0001], April 2012
6. Draft FoP (Stage 2) CVR - PDZ6 [ref.REP-ATK-PM-06Z-ZZZ-ZZZ-Z-0001], April 2012
7. Draft FoP (Stage 2) CVR - PDZ7 [ref.REP-ATK-PM-07Z-ZZZ-ZZZ-Z-0001], April 2012
8. CZ8 Enabling Works CVR [ref. REP-ATK-PM-ZZZ-ZZZ-ZZZ-E-0199], May 2011
9. CZ6b (including PDZ10) - Enabling Works CVR [ref. REP-ATK-PM-ZZZ-ZZZ-ZZZ-E-0200], March 2011
10. Draft FoP (Stage 2) CVR - PDZ12 [ref REP-ATK-PM-02Z-ZZZ-ZZZ-Z-0001], April 2012
11. PDZ 15 'Operational Area 15: Northern Spectator Transport Mall [NSTM] Validation Report' [ref. 7085-SBH-A15-W-REP-0005 rev P02], March 2012

E. PDZ15 Updated Position Statement

PDZ15: UPDATED POSITION STATEMENT

E1 INTRODUCTION

E1.1 The PDZ15 (OLY2) Operational Areas Project comprised construction works for the temporary Northern Spectator Transport Mall (NSTM), which is operational for the Games period only. The works have been validated accordingly[2] in the context of the Olympic end use. The works generally comprised the placement of a marker layer at the original site levels and subsequent fill deposition to construct the temporary Olympic development platform (350mm thickness of imported aggregate sub-base material with construction of overlying 60mm – 80mm thick surface block brick pavement).

E1.2 No Site Specific Remediation Strategy (SSRS) is available for PDZ15 that applies to future Legacy / Transformation site users. The Atkins 'Contamination Assessment Position Paper' dated January 2011 (hereafter the Atkins Position Paper)[3] and the PDZ15, Northern Spectator Transport Mall Remediation Method Statement[4] have been previously prepared to assess the risks to Olympic Games Phase site users and Controlled Waters only.

E1.3 The assessment within the Atkins Position Paper in relation to Controlled Waters risk is considered suitably conservative, with Legacy Controlled Waters SSAC therefore assessed to remain valid. Therefore this Position Statement is intended to be read in conjunction with the Atkins Position Paper and further addresses the proposed Legacy end use of playing fields with respect to human health. The purpose of this document is to assess the risk to future site users from the underlying ground conditions and:

- presents human health and Controlled Waters soil SSAC for a playing fields end use;
- demonstrates the suitability of the existing imported fill material; and,
- provides an assessment of the existing site investigation data for the soil beneath the existing marker layer / imported fill material.

E2 BACKGROUND INFORMATION

E2.1 Table E2.1 below provides a summary of the site and its environmental setting.

TABLE E2.1 BACKGROUND INFORMATION

Site Status	
Description	PDZ15 is located approximately 2.2km northwest of Stratford town centre to the north of the main QEOP and comprises a roughly rectangular parcel of land approximately 16.8ha in size
Historical Development	The historical use of the site has been limited to fields (Hackney Marsh recreation Grounds) with minor periodic development of small buildings. The River Lea originally intersected the site but has been truncated and infilled with potential land raising across the site reported.
Land Use	
Current (Olympic)	The current temporary Olympic use of the site is as the Northern Spectator Transport Mall (NSTM) comprising predominantly a temporary hard landscaped finish.
Future (Legacy)	Subsequent Legacy proposals are for PDZ15 to be reinstated to playing fields comprising football pitches.
Environmental Setting	
Geology & Hydrogeology	▪ Alluvium. (Secondary 'Undifferentiated' Aquifer). ▪ River Terrace Deposits (Secondary 'A' Aquifer). ▪ Lambeth Group (Secondary 'A' Aquifer). ▪ Thanet Sands (Secondary 'A' Aquifer). ▪ Cha k (Principal Aquifer).
	The site lies within a Groundwater Source Protection Zone (SPZ II).
Hydrology	▪ River Lea – northwest and southwest boundaries. ▪ Channelsea River – 300m to the east. ▪ River Lea Navigation – 400m to the west.

[2] PDZ 15 'Operational Area 15: Northern Spectator Transport Mall [NSTM] Validation Report', ref. 7085-SBH-A15-W-REP-0005 P02, dated March 2012.
[3] PDZ15 'Contamination Assessment Position Paper', ref. REP-ATK-CM-15Z-OLP-XXX-E-0002, dated January 2011
[4] PDZ15 'Northern Spectator Transport Mall Remediation Method Statement', ref. 7085-SBH-A15-W-MST-0006-C05, dated February 2012

E2.2 It is noted that the Conceptual Site Model presented within the Atkins Position Paper assumes the Chalk Principal Aquifer to be the primary Controlled Waters receptor where shallow groundwater is not considered a significant groundwater resource for consumption, rather a pathway.

E2.3 The site has previously been remediated to an Olympic end use standard with the provision of:

- a cover layer comprising:
  - 60-80mm of block paving hard landscaped surface; over,
  - 50mm blinding course of suitable imported material (select granular limestone); over,
  - 250-600mm sub-base imported material comprising select crushed virgin stone; over,
  - marker layer at the base (original ground level); and,
  - gravel aggregate and Thanet sand for service trenches.
- soft landscaping areas above the marker layer with SSAC compliant topsoil.

E3 PREVIOUS STUDIES

E3.1 The Atkins Position Paper has referenced a number of historical site investigations undertaken across the site summarised in Table E3.1.

TABLE E3.1 PREVIOUS STUDIES

Date	*Author*	*Title*	*ODA Reference*
March 2007	Capita Symonds Ltd	Level 1 Report Northern Coach Drop-off	-
Nov 2007	Harrison Group Environmental Ltd	Phase 1 Factual Report	REP-MOR-CM-15-OLP-SP1-E-0002
Nov 2007	May Gurney	Ground Investigation Factual Report	REP-MOR-CM-15-OLP-SP1-E-0001
Dec 2007	May Gurney	Ground Investigation Phase 2 Factual Report	REP-MOR-CM-15Z-OLP-SP1-E-0014
July 2010	Edmund Nuttall Ltd	Factual Report on Ground Investigation	REP-ENL-CK-15Z-OLP-SP1-E-0001
Feb 2011	BAM Ritchies	Site Investigation Report	7040-SBH-SPK-W-REP-0034 P01

E3.2 The scope of site investigation works is summarised below in Table D3.2 and the approximate location of exploratory holes shown on Figure 5 – 'Site Plan Showing Site Investigation Locations' included within the Atkins Position Paper.

TABLE D3.2 SUMMARY OF PREVIOUS INTRUSIVE SITE INVESTIGATIONS

Site Investigation	*Bore-holes*	*Window Samples*	*Trial Pits*	*Contamination Testing*			*Ground Gas Monitoring*	
				Soil	*Leachate*	*Water*	*No. Rounds*	*No. Locations*
CSL	6	18	0	86	10	4	2	2
Harrisons	2	0	0	13	6	4	2	2
May Gurney	3	0	0	13	8	8	3	3
Nuttall	5	0	0	18	18	10	2	5
Ritchies	0	0	41	41	0	0	0	0
TOTAL	16	18	41	171	40	26	-	12

E3.3 The scope of contamination testing across the site during the previous investigations is summarised in Table E3.3 below.

TABLE E3.3 CONTAMINATION TESTING

Soil and Leachate	*Water*
Metals Arsenic, boron, cadmium, chromium, copper, lead, mercury, nickel, selenium and zinc.	Metals Arsenic, boron, cadmium, chromium, copper, iron, lead, mercury, nickel, selenium and zinc.
Organics Speciated TPH, speciated PAHs, BTEX, phenols, VOCs and SVOCs.	Organics TPH, PAHs, BTEX, phenols, VOCs and SVOCs.

Soil and Leachate	*Water*
Inorganics Ammoniacal nitrogen, asbestos, nitrate, chloride, sulphate and cyanide.	Inorganics Ammoniacal nitrogen, nitrate, chloride, sulphate and cyanide.
Other pH and FOC/SOM.	Other pH and TOC.

E3.4 The ground conditions encountered during investigation works on the site are summarised below in Table E3.4.

TABLE E3.4 SUMMARY OF ENCOUNTERED GROUND CONDITIONS

Strata		*Thickness*	*Field Observations*
Made Ground		0.0m to 4.5m	Visual observations of slag, ash and clinker. Local organic odours, hydrocarbon odour. No perched water identified.
Alluvium		0.0m to 2.0m	Visual staining comprising black pockets and strong organic odour in a single location.
River Terrace Deposits		0.9m to 5.6m	Groundwater considered to be unconfined flowing in an easterly direction.
Lambeth Group	Laminated Beds	0.0m – 2.0m	None.
	Lower Shelly Beds	0.0m – 3.3m	None.
	Lower Mottled Beds	1.1m – 4.6m	None.
	Upnor Formation	6.7m – 12.6m	Groundwater considered to be in hydraulic continuity.
Thanet Sands		>5.5m to 16.3m	
Chalk		Not proven	

E4 SITE SPECIFIC ASSESSMENT CRITERIA (SSAC)

HUMAN HEALTH

E4.1 The SSAC as developed for PDZ6c Metropolitan Open Land (MOL)[5] have previously been approved as suitable for the assessment of playing fields in PDZ6 by the PDT and are considered to represent current legislation and industry best practise. This provides soils SSAC for Human Health Separation Layer (HHSL) and general fill.

E4.2 The SSAC are derived based on a number of conservative assumptions that are considered applicable in the context of playing fields (sports pitches) use for PDZ15:

- Female receptor (0-6 years old).
- Exposure – 2 days per week.
- Consideration of the following exposure pathways:
  - dermal contact with potentially contaminated soils;
  - ingestion of potentially contaminated soils;
  - outdoor inhalation of dust / vapours (contaminated soils); and,
  - outdoor inhalation of vapours (contaminated perched water/groundwater).

E4.3 Ingestion and inhalation of dust are not considered relevant pathways due to the proposed vegetative cover associated with playing fields, which will prevent the erosion of soils and therefore the creation of dust. Notwithstanding, SSAC have been derived including the inhalation of dust derived from contaminated soils pathway as a conservative assumption.

[5] CZ6c 'Metropolitan Open Land, Site Specific Remediation Strategy, Addendum No. 1' (ref. 0241-ENW-NPK-CM-REP-0001, dated December 2010).

CONTROLLED WATERS

E4.4 The CZ7a SSRS presents soils SSAC for Controlled Waters which are considered to be the most appropriate based upon the approach previously agreed as part of the PDZ15 Olympic end use within the Atkins Position Paper, i.e:

- The Chalk aquifer is considered as the principal receptor whereby a pathway via vertical leaching to the River Terrace Deposits and lateral migration to the east (towards CZ7a) and subsequent vertical migration through the more permeable sandy layers of the Lambeth Group at this location into the Thanet Sand and Chalk groundwater.

E5 DATA ASSESSMENT

E5.1 This Position Statement provides an assessment of the ground conditions below the marker layer (i.e. General Fill) utilising existing site investigation data assuming for a Legacy end use of playing fields.

METHODOLOGY

HUMAN HEALTH

E5.2 The methodology comprises an assessment in relation to the risk to future site users from ground conditions identified as part of historical site investigations. The suitability of ground conditions beneath the existing marker layer at the base of the temporary Olympic phase development platform is assessed herein against General Fill SSAC.

E5.3 Imported fill previously placed has been undertaken in accordance with the Atkins supplementary letter[6] as Category 1 material (as produced crushed or broken rock from a quarry source)[7]. These materials are verified in the BAM Nuttall / Halcrow validation report[8] in relation to the Olympic end use including Controlled Waters, however are also considered verified for the Legacy land use as no chemical testing is required for such materials in accordance with the approved framework.

CONTROLLED WATERS

E5.4 Risks to Controlled Waters have been addressed in the Atkins Position Paper which has undertaken a Generic Quantitative Risk Assessment (GQRA) of soil leachate data and RTD groundwater data against conservative Drinking Water Standards (DWS) and Environmental Quality Standards (EQS) in their absence.

E5.5 Exceedances of the GQRA were subsequently subject to further assessment utilising the Environment Agency P20 worksheets.

ASSESSMENT

HUMAN HEALTH

E5.6 Soil samples within have been tested for various Contaminants of Concern (CoC) and assessed against the General Fill SSAC for playing fields. Where exceedances of SSAC were identified these are shown below in Table E4.1. The detailed full assessment sheets are appended herein.

TABLE E4.1 SUMMARY OF STATISTICAL ANALYSIS OF SOIL RESULTS

Contaminant	*Playing Fields SSAC (mg/kg)*	*No. Samples*	*Max. Concentration (mg/kg)*	*No. Exceedances*
Total cyanide*	17	89	76	2
Note * Total cyanide conservatively used as an initial screen. SSAC derived for free cyanide.				

[6] Atkins. Condition SP.0.37 & OD.0.39: Quality of Imported Fill - Framework (Site Preparation Planning Application Approval No – 07/90011/FUMODA). 0241-ENW-ATK-LET-00328. October 2009.
[7] Operational Area 15 [Northern Spectator Transport Mall] Planning Delivery Zone 15: Import of Fill Submission Condition OD 0 39: Quality of Imported Fill
[8] PDZ15 Operational Area: Northern Spectator Transport Mall (NSTM) Validation Report [ref. 7085-SBH-A15-W-REP-0005 rev. P02 dated March 2012].

E5.7 The assessment identified only two instances of total cyanide exceeding the SSAC for free cyanide associated with Made Ground soils.

- WSOLY2-001 (northern apex of the site) - Total cyanide of 76mg/kg at a depth of 1m below marker layer.
- NBHCZOLY2-201 (western apex of the site) - Total cyanide of 22mg/kg at a depth of 2m below marker layer.

E5.8 Further speciated testing of WSOLY2-001 has shown this to comprise 77mg/kg total cyanide and 2.5mg/kg free cyanide. Therefore no exceedance of the SSAC is identified based on the compliant free cyanide concentration.

E5.9 No speciated testing of WSOLY2-201 has been undertaken however the total cyanide concentration is only marginally above the SSAC for free cyanide. Given the typically observed ratio of total cyanide to free cyanide, this concentration of total cyanide is not considered representative of an exceedance of the free cyanide SSAC.

E5.10 Therefore it is considered these concentrations do not pose an unacceptable risk to human health.

CONTROLLED WATERS

E5.11 The Atkins Position Paper and Halcrow / BAM Nuttall validation report concluded that the recorded concentrations do not pose an unacceptable risk to the Chalk Aquifer. No further assessment is considered necessary.

E6 CONCLUSIONS AND RECOMMENDATIONS

E6.1 A total number of 75No. exploratory locations with chemical sampling and testing of 171No. soil samples has been undertaken across the site beneath the marker layer. No concentrations were identified that are considered to pose an unacceptable risk to human health.

E6.2 The key findings from the assessment are that an unacceptable risk has not been identified in relation to soils beneath the marker layer in respect of human health and Controlled Waters:

- The below marker layer soils comply with the SSAC for General Fill.
- Imported soils placed as part of the temporary Olympic development platform above the marker layer comprise crushed stone from a virgin quarry and therefore do not present an unacceptable risk to human health or Controlled Waters.
- In-situ soils below marker layer and imported soils placed as part of the temporary Olympic development platform above the marker layer do not pose an unacceptable risk to Controlled Waters.

E6.3 Notwithstanding, a suitable HHSL will need to be placed across PDZ15 during Transformation above the marker layer to support a playing field use compliant with the below proposed soil SSAC:

- Human Health: CZ6c SSRS (0241-ENW-NPK-CM-REP-0001).
- Controlled Waters: CZ7a SSRS (REP-WYG-CM-CZ7a-XXX-XXX-E-4003).

E6.4 Details regarding the proposed pitch construction are included in Appendix F.

ATTACHMENT E1: ASSESSMENT SHEETS

CS053924

Soil Screen: PDZ 15
General Fill

CS053924

Soil Screen: PDZ 15
General Fill

F. Proposed Validation Approach to East Marsh Playing Fields [PDZ15]

PROPOSED VALIDATION APPROACH TO EAST MARSH PLAYING FIELDS [PDZ15]

F1 INTRODUCTION

F1.1 The purpose of this appendix is to detail the methodology for the placement and validation of fill materials within Planning Delivery Zone 15 (PDZ15) as part of the Queen Elizabeth Olympic Park [QEOP] Legacy Transformation project.

F2 EXISTING LAND USE PROFILE

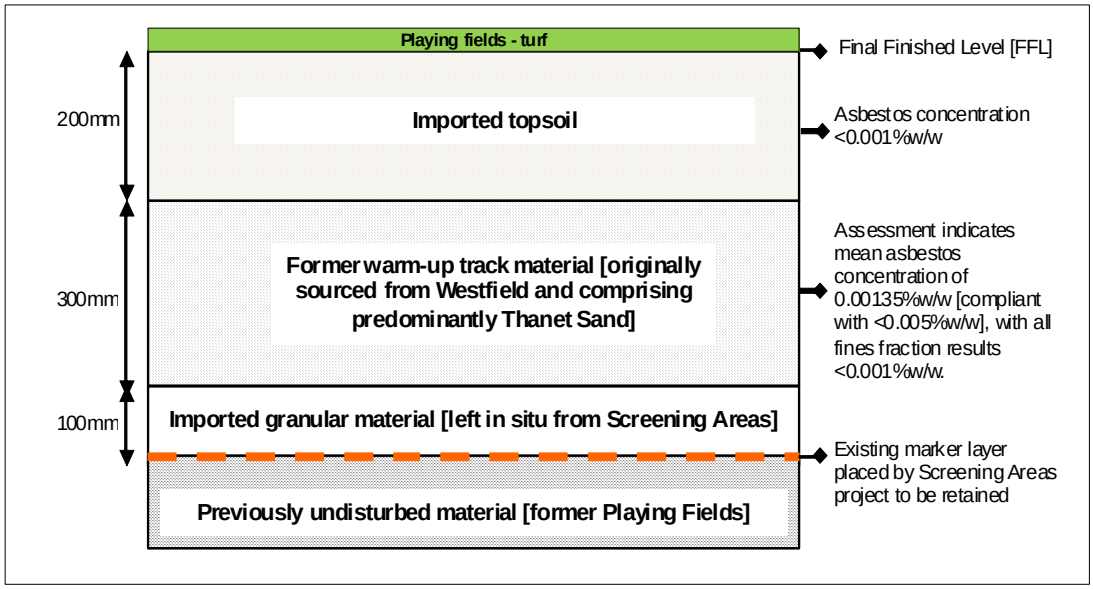
F2.1 The existing Olympic land use profile at PDZ15 was constructed by the ODA Screening Areas project and comprises marker layer installed directly on top of the former playing fields, overlain by imported granular material and block paving. These works are reported in the BAM Nuttall validation report[1].

F3 LEGACY TRANSFORMATION PROFILE

F3.1 It is proposed that the lower 100mm thickness of imported granular material and the marker layer placed by the ODA Screening Areas project will be retained. The granular material comprises Category 1 crushed stone as defined by the Atkins material import framework[2] and the BAM Nuttall validation report[1] and therefore does not require verification testing.

F3.2 A further 300mm thickness of material from the former Olympic warm-up track area will be placed above this retained material and the separation layer will be completed with 200mm of imported topsoil and turf as shown in the profile in Figure F1 below.

FIGURE F1: PROPOSED PROFILE OF PITCH CONSTRUCTION AT EAST MARSH PLAYING FIELDS [PDZ15]



F3.3 The advantages of reusing the excavated warm-up track material as subsoil within PDZ15 are outlined below:

- Material would otherwise be surplus to requirements and would therefore require off-site disposal.
- Avoids the import of alternative material to site, which would have significant cost and sustainability consequences.

[1] Operational Area 15: Northern Spectator Transport Mall [NSTM] Validation Report' [ref: 7085-SBH-A15-W-REP-0005, March 2012].
[2] Atkins. Condition SP 0 37 & OD.0.39: Quality of Imported Fill - Framework (Site Preparation Planning Application Approval No – 07/90011/FUMODA). 0241-ENW-ATK-LET-00328. October 2009.

- Saves over 6,600 lorry movements associated with the disposal and subsequent import of alternative subsoil material.
- Significant contribution towards meeting project sustainability objectives.

F4 ASSESSMENT CRITERIA

F4.1 Appendix E 'PDZ15: Updated Position Paper' of this document specifies the use of the following criteria for materials placed within PDZ15:

- Human Health: CZ6c SSRS (ref: 0241-ENW-NPK-CM-REP-0001)
- Controlled Waters: CZ7a SSRS (ref: REP-WYG-CM-CZ7a-XXX-XXX-E-4003)

F5 REVIEW OF EXISTING DATA

F5.1 In situ source data for the warm-up track material to be utilised as noted above was presented in the following document:

- 'Planning Delivery Zone 3, Construction Zone 3b, London 2012 Olympic Park, Validation Report for Warm Up Track', ref: 6302-SWT-TPV-W-REP-002-P06, dated January 2012.

F5.2 This report notes that 41No. in situ samples were collected at the locations noted in Figure 1 included herein as Attachment E1. Leachate analysis was completed for 20No. of the 41No. in situ samples. Asbestos quantification was completed for 40No. of the 41No. in situ samples. A further 22No. stockpile samples were taken of the material prior to placement within the warm-up track and analysed for soil totals and leachate.

F5.3 Individual sample results were compared to the relevant criteria noted within Section F4. Where exceedances were recorded, statistical assessment of the data set was completed utilising ProUCL software available from the US EPA website http://www.epa.gov/osp/hstl/tsc/software.htm. Specifically, the ProUCL software was utilised to obtain the 95% upper confidence limit (UCL95) of the unknown population arithmetic mean and to determine if exceeding values were considered outliers within the sample population. The assessments are presented within Attachment E2 herein. The findings of this assessment are summarised below:

SOIL RESULTS

- Cyanide.
  - Was not tested for in in-situ samples.
  - A review of the 22No. stockpile samples associated with the warm up track material shows that all sample results were <0.6mg/kg for free and total cyanide.
- Benzo(a)pyrene.
  - Criteria = 3.38mg/kg, 1No. exceedance = 10.82mg/kg (at location FV306448)
  - UCL95 = 1.937mg/kg [utilising 95% Chebyshev (Mean, Sd) UCL within the ProUCL program]
  - Exceeding sample result is considered an outlier using Rosner Outlier Test within the ProUCL program
  - If the outlier is removed from the data set, the maximum value is 2.10mg/kg and the UCL95 = 0.661mg/kg (utilising 95% Student's-t UCL within the ProUCL program)
  - As the UCL95 for the sample population including the outlying exceedance is below the criteria value, this exceedance is not considered to pose an unacceptable risk to Legacy human health receptors. Regardless, as noted in the last paragraph of this section, material associated with sample FV306448 [the outlier] will not be used in PDZ15.
- Vinyl Chloride.
  - The controlled waters SSAC for vinyl chloride is 5ug/kg.
  - All sample results were below the laboratory detection limit; however the detection limit was 6ug/kg for 27No. of the samples.
  - The associated stockpile data set was assessed for low level vinyl chloride (detection limit of 1ug/kg). Vinyl chloride was not detected in any of these low level vinyl chloride results.
  - As vinyl chloride was not detected in any of the in situ or stockpile samples, it is not considered to pose an unacceptable risk to Legacy human health receptors.

- Asbestos.
  - Asbestos quantification was completed for 40No. of the 41No. in situ samples. Asbestos quantification was not completed for sample FV306676.
  - A visual screening was completed for the FV306676 sample and no asbestos was detected.
  - 37No. of the 40No. in situ sample results and 21No. of the 22No. stockpile sample results were below the level of detection (<0.001%w/w).
  - 3No. of the 40No. in situ sample results were above the level of detection:
    - Results = 0.005%w/w, 0.006%w/w, 0.006%w/w (at locations FV423369, FV306599 and FV306606)
    - The mean asbestos quantification for all 40No. samples = 0.00135w/w%
    - The asbestos results are reported as coarse, medium and fine fractions. It is the fine fraction that is most representative of risk to human health via the inhalation pathway. All results for the fine fraction are <0.001%w/w.
  - The trace asbestos detected within the warm-up track samples is not considered to pose an unacceptable risk to Legacy human health receptors when utilised within PDZ15 on the following basis:
    - Elsewhere on the Olympic Park, including the similar future playing fields at the CZ6c Metropolitan Open Land [MOL] site, the lower separation layer criteria [>150mm deep] for asbestos is based on compliance with a mean asbestos concentration of <0.005%w/w. This SSAC of 0.005%w/w [mean] is proposed to be adopted for PDZ15 for separation layer materials >200mm deep. The SSAC for the upper 200mm of separation layer will be <0.001%w/w.
    - The warm-up track material has a mean asbestos concentration of 0.00135%w/w, which is significantly lower than 0.005%w/w.
    - The warm-up track material will be overlain by 200mm of imported topsoil, which will be bound together by the overlying pitch [grass], thereby minimising the risk of dust generation / intermixing of subsoil and topsoil.
    - Noting the area of excavation that the warm-up track material will be sourced from [refer to the last paragraph of this section], all samples representative of material that will be moved to PDZ15 have a reported asbestos concentration of <0.001%w/w.

LEACHATE RESULTS

- Cyanide.
  - Not tested for in-situ samples.
  - A review of the 22No. associated stockpile samples shows the following:
    - 4No. total cyanide exceedances with a maximum sample result of 0.6mg/L, minimum CZ7a SSAC criteria = 0.12mg/L
    - 13No. of the 20No. samples were below the limit of detection of 0.02mg/L
    - UCL95 = 0.247mg/L (utilising 95% Chebyshev (Mean, Sd) UCL within the ProUCL program)
    - The corresponding free cyanide results are <0.002mg/L.
    - As the free cyanide results are <0.002mg/L, the observed total cyanide in the material is not readily transformed into free cyanide. Therefore, the leachable cyanide exceedances within the warm up track material are not considered to pose an unacceptable risk to Legacy controlled waters receptors.
- Pyrene.
  - Criteria = 1.5ug/L , 1No. exceedance = 4.02 ug/L (at location FV306448)
  - UCL95 = 1.109ug/L (utilising Use 95% Chebyshev (Mean, Sd) UCL within the ProUCL program)
  - Exceeding sample result is considered an outlier using Dixon Outlier Test within the ProUCL program
  - If the outlier is removed from the data set, the maximum value is 0.1 ug/L and the UCL95 = 0.053 ug/L (utilising 95% Approximate Gamma UCL within the ProUCL program)
  - As the UCL95 for the sample population including the outlying exceedance is below the criteria value, this exceedance is not considered to pose an unacceptable risk to Legacy human health. Regardless, as noted in the last paragraph of this section, material associated with sample FV306448 [the outlier] will not be used in PDZ15.

F5.4 The available sample data demonstrates that the warm-up track material will not present an unacceptable risk to Legacy human health or controlled waters receptors. The exceedances noted above are present within the following 4No. in situ samples:

- FV306448, FV423369, FV306599 and FV306606.

F5.5 The locations of these samples are presented on Figure No. 1 presented herein as Attachment F1. As shown within the marked up Attachment F1, the area of proposed excavation excludes material associated with these samples.

F5.6 The future sampling and testing noted below in section F6 will provide further reassurance regarding the suitability of this material.

F6 FUTURE SAMPLING AND TESTING

F6.1 Sampling and testing of the material to be placed during QEOP works will be conducted as follows:

- **Imported topsoil**: Given the volume of available data associated with the proposed imported topsoil that demonstrate compliance with the SSAC, this will be sampled in situ at a frequency of 1 sample per 1,000m^3 as discussed and justified within the import of fill submission included in Appendix H of this document.
- **Former warm-up track material**: a significant sample dataset exists for the warm-up track material to be utilised within PDZ15. The below Table F6.1 presents an overview of the sampling frequencies undertaken to date based on forecast requirements of 30,000m3 of warm-up track material to complete the pitch construction and proposes in situ sampling frequencies for the works within PDZ15.

TABLE F6.1: OVERVIEW OF WARM-UP TRACK MATERIAL SAMPLING AND TESTING FREQUENCIES

Category	*No. samples [soil totals]*	*No. samples [leachate]*
In situ samples from warm-up track	41	20
Stockpile samples prior to placement at warm-up track	22	22
Sample frequency to date	1 sample per 476m^3	1 sample per 714m^3
PDT required sample frequency for final validation	1 sample per 200m^3	1 sample per 1,000m^3
No. further samples required to meet minimum PDT required sampling frequency	87	0
Proposed in situ sampling frequency during placement in PDZ15	**1 sample per 345m^3**	**1 sample per 2,000m^3 [reassurance]**

F6.2 Based on the review included in Table F6.1, it is proposed to undertake in situ reassurance sampling and testing during placement of warm-up track material in PDZ15 on the following basis:

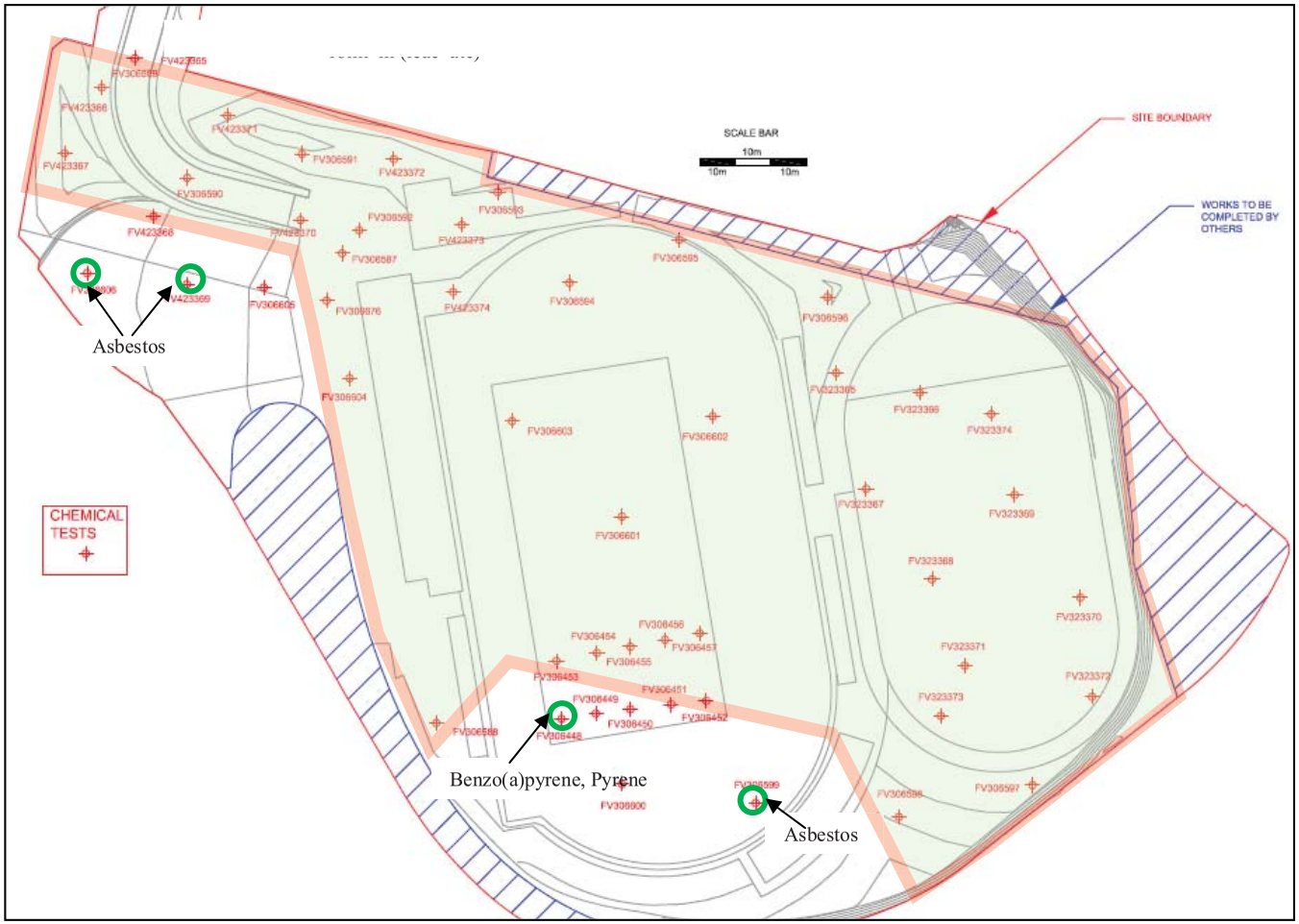
- Minimum sampling frequency of 1 per 345m^3 [soil totals] and 1 per 2,000m^3 [leachate].
- Samples will be evenly distributed geographically, to ensure testing is undertaken across the whole area of the works.
- Testing suite for samples will include all contaminants with an applicable SSAC.

F6.3 A visual inspection of all loads will be conducted by personnel who have been briefed on what to look out for in terms of visual or olfactory indicators of potential contamination. Movements of material between the warm-up track and PDZ15 will be tracked. The warm-up track material will remain segregated from other materials at all times to ensure the integrity of the material between excavation in the warm-up track area and placement in PDZ15.

ATTACHMENT F1: FIGURE SHOWING WARM-UP TRACK IN SITU SAMPLES AND PROPOSED EXCAVATION

Attachment 1: Figure showing warm-up track in situ samples and proposed excavation

NOTE: This plan has been extracted from the '*Planning Delivery Zone 3, Construction Zone 3b, London 2012 Olympic Park, Validation Report for Warm Up Track*', ref: 6302-SWT-TPV-W-REP-002-P06, dated January 2012 and amended to show the area of proposed excavation of the warm-up track material that will be transferred to PDZ15 for placement as subsoil in the pitch construction.



Area of proposed excavation for transfer to PDZ15

Samples noted within Section 5 of Appendix D of the RMS

ATTACHMENT F2: 2A) IN SITU TEST RESULTS ASSESSMENT SUMMARY – SOILS

PDZ15 - Warm Up Track Material Assessment

Description	SSAC- Soils - HH	SSAC- Soils - CW	SSAC- Soils - Min	Units	MAX VALUE	FV306448	FV306449	FV306450	FV306451	FV306452	FV306453	FV306454	FV306455	FV306456	FV306457	FV423365
Asbestos [based on mean]	0.005		0.005	%	0.006	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic	97.2		97.2	mg/kg	51.3											
Cadmium	172		172	mg/kg	1.74											
Chromium	344		344	mg/kg	34.7											
Lead	616		616	mg/kg	609.3											
Mercury	42.9		42.9	mg/kg	1.66											
Nickel	618		618	mg/kg	36.5											
Selenium	673		673	mg/kg	1.8											
Cyanide (total)	17		17	mg/kg	Not Tested											
Cyanide (free)	17		17	mg/kg	Not Tested											
Benzene	2240		2240	ug/kg	6											
Toluene	418000		418000	ug/kg	10											
Ethy benzene	25900000		25900000	ug/kg	6											
m & p - Xylene	795000		795000	ug/kg	8											
o - Xylene	795000		795000	ug/kg	6											
Total Petroleum Hydrocarbons (C5 - C6 aliphatic)	671000		671000	mg/kg	2.18											
Total Petroleum Hydrocarbons (C6-C8 aliphatic)	671000		671000	mg/kg	166											
Total Petroleum Hydrocarbons (C8-C10 aliphatic)	13400		13400	mg/kg	19.5											
Total Petroleum Hydrocarbons (C10-C12 aliphatic)	13400		13400	mg/kg	5											
Total Petroleum Hydrocarbons (C12-C16 aliphatic)	13400		13400	mg/kg	15.8											
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	269000		269000	mg/kg	37.5											
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	269000		269000	mg/kg	317											
Total Petroleum Hydrocarbons (C5-C7 aromatic)	156		156	mg/kg	0.01											
Total Petroleum Hydrocarbons (C7 - C8 aromatic)	391		391	mg/kg	0.01											
Total Petroleum Hydrocarbons (C8-C10 aromatic)	739		739	mg/kg	5											
Total Petroleum Hydrocarbons (C10-C12 aromatic)	5320		5320	mg/kg	5											
Total Petroleum Hydrocarbons (C12-C16 aromatic)	5160		5160	mg/kg	9.56											
Total Petroleum Hydrocarbons (C16-C21 aromatic)	4030		4030	mg/kg	27.6											
Total Petroleum Hydrocarbons (C21-C35 aromatic)	4030		4030	mg/kg	282											
Acenaphthylene	7270		7270	mg/kg	0.9											
Acenaphthene	7240		7240	mg/kg	0.27											
Anthracene	36700		36700	mg/kg	2.92											
Benzo (a) anthracene	19.7		19.7	mg/kg	13.5											
Benzo (a) pyrene	3.38		3.38	mg/kg	10.82	10.82	0.53	0.66	0.42	0.55	0.39	0.23	0.82	0.46	0.14	0.67
Benzo (b) fluoranthene	23.4		23.4	mg/kg	8.35											
Benzo (k) fluoranthene	34.4		34.4	mg/kg	2.24											
Benzo (ghi) perylene	3690		3690	mg/kg	5.68											
Chrysene	29.5		29.5	mg/kg	10.2											
Dibenzo (ah) anthracene	3.53		3.53	mg/kg	1.2											
Indeno (1,2,3 - cd) pyrene	13.9		13.9	mg/kg	4.46											
Fluoranthene	4910		4910	mg/kg	14.3											
Fluorene	4860		4860	mg/kg	0.49											
Naphthalene	3840	5.6	5.6	mg/kg	0.3											
Phenanthrene	3670		3670	mg/kg	13											
Pyrene	3680		3680	mg/kg	32.6											
Tetrachloroethene	178000	1500	1500	ug/kg	30											
1,1,1,2 - Tetrachloroethane	144000	6600	6600	ug/kg	6											
1,1,2,2 - Tetrachloroethane	338000	6600	6600	ug/kg	6											
Trichloroethene	14700	170	170	ug/kg	6											
1,1,1 - Trichloroethane	827000	15000	15000	ug/kg	6											
1,2 - Dichloroethane	648	10	10	ug/kg	6											
Carbon tetrachloride	2510	2100	2100	ug/kg	6											
Vinyl Chloride	68.9	5	5	ug/kg	6	6	6	6	6	6	6	6	6	6	6	6
Phenol	116000	50000	50000	mg/kg	1.4											

Notes:

1. The individual sample results were reviewed and the maximum value is recorded for each contaminant with a criteria value. Where the maximum value exceeds the criteria value, the individual sample results have been listed for a more detailed assessment.

2. The criteria utilised above is from the following documents: 0241-ENW-NPK-CM-REP-0001 and REP-WYG-CM-CZ7a-XXX-XXX-E-4003 as noted within the Queen Elizabeth Olympic Park (QEOP) Legacy Transformation Remediation Impact Assessment (LC401-LCI-APK-CM-REP-0002).

3 In order to utilising conditional formatting, the '<' sign has been removed from results.

4. The vinyl chloride criteria was revised vinyl chloride to 5ug/kg as presented within enabling works PMI-ATK-PM-ZZZ-ZZZ-ZZZ-E-2678.

PDZ15 - Warm Up Track Material Assessment

Description	SSAC- Soils - HH	SSAC- Soils - CW	SSAC- Soils - Min	Units	MAX VALUE	FV306448	FV306449	FV306450	FV423366	FV423367	FV423368	FV423369	FV423370	FV423371	FV423372	FV423373
Asbestos [based on mean]	0.005		0.005	%	0.006	0.001	0.001	0.001	0.001	0.001	0.001	0.006	0.001	0.001	0.001	0.001
Arsenic	97.2		97.2	mg/kg	51.3											
Cadmium	172		172	mg/kg	1.74											
Chromium	344		344	mg/kg	34.7											
Lead	616		616	mg/kg	609.3											
Mercury	42.9		42.9	mg/kg	1.66											
Nickel	618		618	mg/kg	36.5											
Selenium	673		673	mg/kg	1.8											
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Cyanide (free)	17		17	mg/kg	Not Tested											
Benzene	2240		2240	ug/kg	6											
Toluene	418000		418000	ug/kg	10											
Ethy benzene	25900000		25900000	ug/kg	6											
m & p - Xylene	795000		795000	ug/kg	8											
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Acenaphthene	7240		7240	mg/kg	0.27											
Anthracene	36700		36700	mg/kg	2.92											
Benzo (a) anthracene	19.7		19.7	mg/kg	13.5											
Benzo (a) pyrene	3.38		3.38	mg/kg	10.82	10.82	0.53	0.66	0.53	0.58	0.79	0.53	0.5	0.53	0.3	0.61
Benzo (b) fluoranthene	23.4		23.4	mg/kg	8.35											
Benzo (k) fluoranthene	34.4		34.4	mg/kg	2.24											
Benzo (ghi) perylene	3690		3690	mg/kg	5.68											
Chrysene	29.5		29.5	mg/kg	10.2											
Dibenzo (ah) anthracene	3.53		3.53	mg/kg	1.2											
Indeno (1,2,3 - cd) pyrene	13.9		13.9	mg/kg	4.46											
Fluoranthene	4910		4910	mg/kg	14.3											
Fluorene	4860		4860	mg/kg	0.49											
Naphthalene	3840	5.6	5.6	mg/kg	0.3											
Phenanthrene	3670		3670	mg/kg	13											
Pyrene	3680		3680	mg/kg	32.6											
Tetrachloroethene	178000	1500	1500	ug/kg	30											
1,1,1,2 - Tetrachloroethane	144000	6600	6600	ug/kg	6											
1,1,2,2 - Tetrachloroethane	338000	6600	6600	ug/kg	6											
Trichloroethene	14700	170	170	ug/kg	6											
1,1,1 - Trichloroethane	827000	15000	15000	ug/kg	6											
1,2 - Dichloroethane	648	10	10	ug/kg	6											
Carbon tetrachloride	2510	2100	2100	ug/kg	6											
Vinyl Chloride	68.9	5	5	ug/kg	6	6	6	6	6	6	6	6	6	6	6	6
Phenol	116000	50000	50000	mg/kg	1.4											

Notes:

1. The individual sample results were reviewed and the maximum value is recorded for each contaminant with a criteria value. Where the maximum value exceeds the criteria value, the individual sample results have been listed for a more detailed assessment.

2. The criteria utilised above is from the following documents: 0241-ENW-NPK-CM-REP-0001 and REP-WYG-CM-CZ7a-XXX-XXX-E-4003 as noted within the Queen Elizabeth Olympic Park (QEOP) Legacy Transformation Remediation Impact Assessment (LC401-LCI-APK-CM-REP-0002).

3 In order to utilising conditional formatting, the '<' sign has been removed from results.

4. The vinyl chloride criteria was revised vinyl chloride to 5ug/kg as presented within enabling works PMI-ATK-PM-ZZZ-ZZZ-ZZZ-E-2678.

PDZ15 - Warm Up Track Material Assessment

Description	SSAC- Soils - HH	SSAC- Soils - CW	SSAC- Soils - Min	Units	MAX VALUE	FV306448	FV306449	FV306450	FV423374	FV306587	FV306588	FV306589	FV306590	FV306591	FV306592	FV306593
Asbestos [based on mean]	0.005		0.005	%	0.006	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic	97.2		97.2	mg/kg	51.3											
Cadmium	172		172	mg/kg	1.74											
Chromium	344		344	mg/kg	34.7											
Lead	616		616	mg/kg	609.3											
Mercury	42.9		42.9	mg/kg	1.66											
Nickel	618		618	mg/kg	36.5											
Selenium	673		673	mg/kg	1.8											
Cyanide (total)	17		17	mg/kg	Not Tested											
Cyanide (free)	17		17	mg/kg	Not Tested											
Benzene	2240		2240	ug/kg	6											
Toluene	418000		418000	ug/kg	10											
Ethy benzene	25900000		25900000	ug/kg	6											
m & p - Xylene	795000		795000	ug/kg	8											
o - Xylene	795000		795000	ug/kg	6											
Total Petroleum Hydrocarbons (C5 - C6 aliphatic)	671000		671000	mg/kg	2.18											
Total Petroleum Hydrocarbons (C6-C8 aliphatic)	671000		671000	mg/kg	166											
Total Petroleum Hydrocarbons (C8-C10 aliphatic)	13400		13400	mg/kg	19.5											
Total Petroleum Hydrocarbons (C10-C12 aliphatic)	13400		13400	mg/kg	5											
Total Petroleum Hydrocarbons (C12-C16 aliphatic)	13400		13400	mg/kg	15.8											
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	269000		269000	mg/kg	37.5											
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	269000		269000	mg/kg	317											
Total Petroleum Hydrocarbons (C5-C7 aromatic)	156		156	mg/kg	0.01											
Total Petroleum Hydrocarbons (C7 - C8 aromatic)	391		391	mg/kg	0.01											
Total Petroleum Hydrocarbons (C8-C10 aromatic)	739		739	mg/kg	5											
Total Petroleum Hydrocarbons (C10-C12 aromatic)	5320		5320	mg/kg	5											
Total Petroleum Hydrocarbons (C12-C16 aromatic)	5160		5160	mg/kg	9.56											
Total Petroleum Hydrocarbons (C16-C21 aromatic)	4030		4030	mg/kg	27.6											
Total Petroleum Hydrocarbons (C21-C35 aromatic)	4030		4030	mg/kg	282											
Acenaphthylene	7270		7270	mg/kg	0.9											
Acenaphthene	7240		7240	mg/kg	0.27											
Anthracene	36700		36700	mg/kg	2.92											
Benzo (a) anthracene	19.7		19.7	mg/kg	13.5											
Benzo (a) pyrene	3.38		3.38	mg/kg	10.82	10.82	0.53	0.66	0.44	0.48	0.4	0.36	0.7	0.52	1.04	0.53
Benzo (b) fluoranthene	23.4		23.4	mg/kg	8.35											
Benzo (k) fluoranthene	34.4		34.4	mg/kg	2.24											
Benzo (ghi) perylene	3690		3690	mg/kg	5.68											
Chrysene	29.5		29.5	mg/kg	10.2											
Dibenzo (ah) anthracene	3.53		3.53	mg/kg	1.2											
Indeno (1,2,3 - cd) pyrene	13.9		13.9	mg/kg	4.46											
Fluoranthene	4910		4910	mg/kg	14.3											
Fluorene	4860		4860	mg/kg	0.49											
Naphthalene	3840	5.6	5.6	mg/kg	0.3											
Phenanthrene	3670		3670	mg/kg	13											
Pyrene	3680		3680	mg/kg	32.6											
Tetrachloroethene	178000	1500	1500	ug/kg	30											
1,1,1,2 - Tetrachloroethane	144000	6600	6600	ug/kg	6											
1,1,2,2 - Tetrachloroethane	338000	6600	6600	ug/kg	6											
Trichloroethene	14700	170	170	ug/kg	6											
1,1,1 - Trichloroethane	827000	15000	15000	ug/kg	6											
1,2 - Dichloroethane	648	10	10	ug/kg	6											
Carbon tetrachloride	2510	2100	2100	ug/kg	6											
Vinyl Chloride	68.9	5	5	ug/kg	6	6	6	6	6	6	6	6	6	6	5	6
Phenol	116000	50000	50000	mg/kg	1.4											

Notes:

1. The individual sample results were reviewed and the maximum value is recorded for each contaminant with a criteria value. Where the maximum value exceeds the criteria value, the individual sample results have been listed for a more detailed assessment.

2. The criteria utilised above is from the following documents: 0241-ENW-NPK-CM-REP-0001 and REP-WYG-CM-CZ7a-XXX-XXX-E-4003 as noted within the Queen Elizabeth Olympic Park (QEOP) Legacy Transformation Remediation Impact Assessment (LC401-LCI-APK-CM-REP-0002).

3 In order to utilising conditional formatting, the '<' sign has been removed from results.

4. The vinyl chloride criteria was revised vinyl chloride to 5ug/kg as presented within enabling works PMI-ATK-PM-ZZZ-ZZZ-ZZZ-E-2678.

PDZ15 - Warm Up Track Material Assessment

Description	SSAC- Soils - HH	SSAC- Soils - CW	SSAC- Soils - Min	Units	MAX VALUE	FV306448	FV306449	FV306450	FV306594	FV306595	FV306596	FV306597	FV306598	FV306599	FV306600	FV306601
Asbestos [based on mean]	0.005		0.005	%	0.006	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001
Arsenic	97.2		97.2	mg/kg	51.3											
Cadmium	172		172	mg/kg	1.74											
Chromium	344		344	mg/kg	34.7											
Lead	616		616	mg/kg	609.3											
Mercury	42.9		42.9	mg/kg	1.66											
Nickel	618		618	mg/kg	36.5											
Selenium	673		673	mg/kg	1.8											
Cyanide (total)	17		17	mg/kg	Not Tested											
Cyanide (free)	17		17	mg/kg	Not Tested											
Benzene	2240		2240	ug/kg	6											
Toluene	418000		418000	ug/kg	10											
Ethy benzene	25900000		25900000	ug/kg	6											
m & p - Xylene	795000		795000	ug/kg	8											
o - Xylene	795000		795000	ug/kg	6											
Total Petroleum Hydrocarbons (C5 - C6 aliphatic)	671000		671000	mg/kg	2.18											
Total Petroleum Hydrocarbons (C6-C8 aliphatic)	671000		671000	mg/kg	166											
Total Petroleum Hydrocarbons (C8-C10 aliphatic)	13400		13400	mg/kg	19.5											
Total Petroleum Hydrocarbons (C10-C12 aliphatic)	13400		13400	mg/kg	5											
Total Petroleum Hydrocarbons (C12-C16 aliphatic)	13400		13400	mg/kg	15.8											
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	269000		269000	mg/kg	37.5											
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	269000		269000	mg/kg	317											
Total Petroleum Hydrocarbons (C5-C7 aromatic)	156		156	mg/kg	0.01											
Total Petroleum Hydrocarbons (C7 - C8 aromatic)	391		391	mg/kg	0.01											
Total Petroleum Hydrocarbons (C8-C10 aromatic)	739		739	mg/kg	5											
Total Petroleum Hydrocarbons (C10-C12 aromatic)	5320		5320	mg/kg	5											
Total Petroleum Hydrocarbons (C12-C16 aromatic)	5160		5160	mg/kg	9.56											
Total Petroleum Hydrocarbons (C16-C21 aromatic)	4030		4030	mg/kg	27.6											
Total Petroleum Hydrocarbons (C21-C35 aromatic)	4030		4030	mg/kg	282											
Acenaphthylene	7270		7270	mg/kg	0.9											
Acenaphthene	7240		7240	mg/kg	0.27											
Anthracene	36700		36700	mg/kg	2.92											
Benzo (a) anthracene	19.7		19.7	mg/kg	13.5											
Benzo (a) pyrene	3.38		3.38	mg/kg	10.82	10.82	0.53	0.66	0.4	0.55	0.5	0.51	0.35	0.46	0.51	0.82
Benzo (b) fluoranthene	23.4		23.4	mg/kg	8.35											
Benzo (k) fluoranthene	34.4		34.4	mg/kg	2.24											
Benzo (ghi) perylene	3690		3690	mg/kg	5.68											
Chrysene	29.5		29.5	mg/kg	10.2											
Dibenzo (ah) anthracene	3.53		3.53	mg/kg	1.2											
Indeno (1,2,3 - cd) pyrene	13.9		13.9	mg/kg	4.46											
Fluoranthene	4910		4910	mg/kg	14.3											
Fluorene	4860		4860	mg/kg	0.49											
Naphthalene	3840	5.6	5.6	mg/kg	0.3											
Phenanthrene	3670		3670	mg/kg	13											
Pyrene	3680		3680	mg/kg	32.6											
Tetrachloroethene	178000	1500	1500	ug/kg	30											
1,1,1,2 - Tetrachloroethane	144000	6600	6600	ug/kg	6											
1,1,2,2 - Tetrachloroethane	338000	6600	6600	ug/kg	6											
Trichloroethene	14700	170	170	ug/kg	6											
1,1,1 - Trichloroethane	827000	15000	15000	ug/kg	6											
1,2 - Dichloroethane	648	10	10	ug/kg	6											
Carbon tetrachloride	2510	2100	2100	ug/kg	6											
Vinyl Chloride	68.9	5	5	ug/kg	6	6	6	6	5	5	5	5	5	5	5	5
Phenol	116000	50000	50000	mg/kg	1.4											

Notes:

1. The individual sample results were reviewed and the maximum value is recorded for each contaminant with a criteria value. Where the maximum value exceeds the criteria value, the individual sample results have been listed for a more detailed assessment.

2. The criteria utilised above is from the following documents: 0241-ENW-NPK-CM-REP-0001 and REP-WYG-CM-CZ7a-XXX-XXX-E-4003 as noted within the Queen Elizabeth Olympic Park (QEOP) Legacy Transformation Remediation Impact Assessment (LC401-LCI-APK-CM-REP-0002).

3 In order to utilising conditional formatting, the '<' sign has been removed from results.

4. The vinyl chloride criteria was revised vinyl chloride to 5ug/kg as presented within enabling works PMI-ATK-PM-ZZZ-ZZZ-ZZZ-E-2678.

PDZ15 - Warm Up Track Material Assessment

Description	SSAC- Soils - HH	SSAC- Soils - CW	SSAC- Soils - Min	Units	MAX VALUE	FV306448	FV306449	FV306450	FV306602	FV306603	FV306604	FV306605	FV306606	FV306676	Comments
Asbestos [based on mean]	0.005		0.005	%	0.006	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.006	NA	Mean Asbestos Quant = 0.00135%; Fine Fraction = <0 001%;Asbestos Quantification not completed for FV306676 but visual screen completed and no asbestos was detected.
Arsenic	97.2		97.2	mg/kg	51.3										
Cadmium	172		172	mg/kg	1.74										
Chromium	344		344	mg/kg	34.7										
Lead	616		616	mg/kg	609.3										
Mercury	42.9		42.9	mg/kg	1.66										
Nickel	618		618	mg/kg	36.5										
Selenium	673		673	mg/kg	1.8										
Cyanide (total)	17		17	mg/kg	Not Tested										
Cyanide (free)	17		17	mg/kg	Not Tested										
Benzene	2240		2240	ug/kg	6										
Toluene	418000		418000	ug/kg	10										
Ethy benzene	25900000		25900000	ug/kg	6										
m & p - Xylene	795000		795000	ug/kg	8										
o - Xylene	795000		795000	ug/kg	6										
Total Petroleum Hydrocarbons (C5 - C6 aliphatic)	671000		671000	mg/kg	2.18										
Total Petroleum Hydrocarbons (C6-C8 aliphatic)	671000		671000	mg/kg	166										
Total Petroleum Hydrocarbons (C8-C10 aliphatic)	13400		13400	mg/kg	19.5										
Total Petroleum Hydrocarbons (C10-C12 aliphatic)	13400		13400	mg/kg	5										
Total Petroleum Hydrocarbons (C12-C16 aliphatic)	13400		13400	mg/kg	15.8										
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	269000		269000	mg/kg	37.5										
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	269000		269000	mg/kg	317										
Total Petroleum Hydrocarbons (C5-C7 aromatic)	156		156	mg/kg	0.01										
Total Petroleum Hydrocarbons (C7 - C8 aromatic)	391		391	mg/kg	0.01										
Total Petroleum Hydrocarbons (C8-C10 aromatic)	739		739	mg/kg	5										
Total Petroleum Hydrocarbons (C10-C12 aromatic)	5320		5320	mg/kg	5										
Total Petroleum Hydrocarbons (C12-C16 aromatic)	5160		5160	mg/kg	9.56										
Total Petroleum Hydrocarbons (C16-C21 aromatic)	4030		4030	mg/kg	27.6										
Total Petroleum Hydrocarbons (C21-C35 aromatic)	4030		4030	mg/kg	282										
Acenaphthylene	7270		7270	mg/kg	0.9										
Acenaphthene	7240		7240	mg/kg	0.27										
Anthracene	36700		36700	mg/kg	2.92										
Benzo (a) anthracene	19.7		19.7	mg/kg	13.5										
Benzo (a) pyrene	3.38		3.38	mg/kg	10.82	10.82	0.53	0.66	2.1	0.76	0.93	0.37	0.49	0.71	
Benzo (b) fluoranthene	23.4		23.4	mg/kg	8.35										
Benzo (k) fluoranthene	34.4		34.4	mg/kg	2.24										
Benzo (ghi) perylene	3690		3690	mg/kg	5.68										
Chrysene	29.5		29.5	mg/kg	10.2										
Dibenzo (ah) anthracene	3.53		3.53	mg/kg	1.2										
Indeno (1,2,3 - cd) pyrene	13.9		13.9	mg/kg	4.46										
Fluoranthene	4910		4910	mg/kg	14.3										
Fluorene	4860		4860	mg/kg	0.49										
Naphthalene	3840	5.6	5.6	mg/kg	0.3										
Phenanthrene	3670		3670	mg/kg	13										
Pyrene	3680		3680	mg/kg	32.6										
Tetrachloroethene	178000	1500	1500	ug/kg	30										
1,1,1,2 - Tetrachloroethane	144000	6600	6600	ug/kg	6										
1,1,2,2 - Tetrachloroethane	338000	6600	6600	ug/kg	6										
Trichloroethene	14700	170	170	ug/kg	6										
1,1,1 - Trichloroethane	827000	15000	15000	ug/kg	6										
1,2 - Dichloroethane	648	10	10	ug/kg	6										
Carbon tetrachloride	2510	2100	2100	ug/kg	6										
Vinyl Chloride	68.9	5	5	ug/kg	6	6	6	6	5	5	6	5	5	6	LOD Exceedance, see Note 4
Phenol	116000	50000	50000	mg/kg	1.4										

Notes:

1. The individual sample results were reviewed and the maximum value is recorded for each contaminant with a criteria value. Where the maximum value exceeds the criteria value, the individual sample results have been listed for a more detailed assessment.

2. The criteria utilised above is from the following documents: 0241-ENW-NPK-CM-REP-0001 and REP-WYG-CM-CZ7a-XXX-XXX-E-4003 as noted within the Queen Elizabeth Olympic Park (QEOP) Legacy Transformation Remediation Impact Assessment (LC401-LCI-APK-CM-REP-0002).

3 In order to utilising conditional formatting, the '<' sign has been removed from results.

4. The vinyl chloride criteria was revised vinyl chloride to 5ug/kg as presented within enabling works PMI-ATK-PM-ZZZ-ZZZ-ZZZ-E-2678.

ATTACHMENT F2: 2B) IN SITU TEST RESULTS ASSESSMENT SUMMARY – LEACHATE

Description	SSAC - Leachate - Proposed Wet/Dry and Saturated Zone	SSAC - Leachate - Proposed Dry Zone	Minimum Criteria Value	Units	MAX VALUE	FV306448	FV306449	FV306450	FV306451	FV306452	FV306453	FV306454	FV306455	FV306456	FV306457	FV423365	FV423366
Arsenic	0.06	0.03	0.03	mg/L	0.009												
Cadmium	0.02	0.01	0.01	mg/L	0.0001												
Chromium	0.22	0.12	0.12	mg/L	0.093												
Copper	13	6.8	6.8	mg/L	0.02												
Lead	0.16	0.09	0.09	mg/L	0.002												
Mercury	0.003	0.002	0.002	mg/L	0.0002												
Nickel	0.09	0.07	0.07	mg/L	0.007												
Selenium	0.06	0.03	0.03	mg/L	0.01												
Zinc	33	17	17	mg/L	0.07												
Ammoniacal Nitrogen	270	270	270	mg/L	1.3												
Sulphate	1620	852	852	mg/L	204												
Acenaphthylene	16100	16100	16100	ug/L	2.94												
Acenaphthene	3800	3800	3800	ug/L	4.64												
Anthracene	20	20	20	ug/L	6.84												
Benzo (a) anthracene	10	10	10	ug/L	0.36												
Benzo (a) pyrene	1	1	1	ug/L	0.11												
Benzo (b) fluoranthene	2	2	2	ug/L	0.12												
Benzo (k) fluoranthene	1	5	1	ug/L	0.04												
Benzo (ghi) perylene	10	6200	10	ug/L	0.05												
Chrysene	3	170	3	ug/L	0.33												
Dibenzo (ah) anthracene	0.1	0.1	0.1	ug/L	0.01												
Indeno (1,2,3 - cd) pyrene	4	2020	4	ug/L	0.04												
Fluoranthene	30	30	30	ug/L	3.55												
Fluorene	1900	1900	1900	ug/L	6.03												
Phenanthrene	1100	1100	1100	ug/L	20.3												
Pyrene	1.5	8	1.5	ug/L	4.03	4.03	0.04	0.04	0.04	0.09	0.04	0.03	0.03	0.03	0.1	0.05	0.02
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	130	880	130	ug/L	0.01												
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	130	880	130	ug/L	0.01												
Cyanide (Free)	0.22	0.12	0.12	mg/L	NT												
Phenol	84000000	84000000	84000000	ug/L	0.001												

Notes:

1. The sample results have been compared to the CZ7a Addendum No. 1 to SSRS V5.1 Criteria [DCR-WYG-CM-07a-XXX-XXX-E-4003, Table 3 Revised Leachate Deposit Material Criteria (General Fill & Separation Layer) to be protective of controlled waters (all determinants except volatiles)].

Description	SSAC - Leachate - Proposed Wet/Dry and Saturated Zone	SSAC - Leachate - Proposed Dry Zone	Minimum Criteria Value	Units	MAX VALUE	FV423367	FV423368	FV423369	FV423370	FV423371	FV423372	FV423373	FV423374	Comments
Arsenic	0.06	0.03	0.03	mg/L	0.009									
Cadmium	0.02	0.01	0.01	mg/L	0.0001									
Chromium	0.22	0.12	0.12	mg/L	0.093									
Copper	13	6.8	6.8	mg/L	0.02									
Lead	0.16	0.09	0.09	mg/L	0.002									
Mercury	0.003	0.002	0.002	mg/L	0.0002									
Nickel	0.09	0.07	0.07	mg/L	0.007									
Selenium	0.06	0.03	0.03	mg/L	0.01									
Zinc	33	17	17	mg/L	0.07									
Ammoniacal Nitrogen	270	270	270	mg/L	1.3									
Sulphate	1620	852	852	mg/L	204									
Acenaphthylene	16100	16100	16100	ug/L	2.94									
Acenaphthene	3800	3800	3800	ug/L	4.64									
Anthracene	20	20	20	ug/L	6.84									
Benzo (a) anthracene	10	10	10	ug/L	0.36									
Benzo (a) pyrene	1	1	1	ug/L	0.11									
Benzo (b) fluoranthene	2	2	2	ug/L	0.12									
Benzo (k) fluoranthene	1	5	1	ug/L	0.04									
Benzo (ghi) perylene	10	6200	10	ug/L	0.05									
Chrysene	3	170	3	ug/L	0.33									
Dibenzo (ah) anthracene	0.1	0.1	0.1	ug/L	0.01									
Indeno (1,2,3 - cd) pyrene	4	2020	4	ug/L	0.04									
Fluoranthene	30	30	30	ug/L	3.55									
Fluorene	1900	1900	1900	ug/L	6.03									
Phenanthrene	1100	1100	1100	ug/L	20.3									
Pyrene	1.5	8	1.5	ug/L	4.03	0.02	0.07	0.01	0.02	0.01	0.02	0.04	0.04	
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	130	880	130	ug/L	0.01									
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	130	880	130	ug/L	0.01									
Cyanide (Free)	0.22	0.12	0.12	mg/L	NT									
Phenol	84000000	84000000	84000000	ug/L	0.001									

Notes:

1. The sample results have been compared to the CZ7a Addendum No. 1 to SSRS V5.1 Criteria [DCR-WYG-CM-07a-XXX-XXX-E-4003, Table 3 Revised Leachate Deposit Material Criteria (General Fill & Separation Layer) to be protective of controlled waters (all determinants except volatiles)].

ATTACHMENT F2: 2C) STATISTICAL ASSESSMENTS OF IN SITU DATA

ProUCL Summary for Benzo(a)pyrene Soil Results

General UCL Statistics for Full Data Sets

User Selected Options	
From File	WorkSheet.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

C0

General Statistics			
Number of Valid Observations	41	Number of Distinct Observations	31
Raw Statistics		Log-transformed Statistics	
Minimum	0.14	Minimum of Log Data	-1.966
Maximum	10.82	Maximum of Log Data	2.381
Mean	0.829	Mean of log Data	-0.568
Geometric Mean	0.567	SD of log Data	0.636
Median	0.53		
SD	1.628		
Std. Error of Mean	0.254		
Coefficient of Variation	1.963		
Skewness	6.079		
Relevant UCL Statistics			
Normal Distr bution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.278	Shapiro Wi k Test Statistic	0.779
Shapiro Wilk Critical Value	0.941	Shapiro Wi k Critical Value	0.941
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distr bution	
95% Student's-t UCL	1.257	95% H-UCL	0.848
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.011
95% Adjusted-CLT UCL (Chen-1995)	1.505	97.5% Chebyshev (MVUE) UCL	1.15
95% Modified-t UCL (Johnson-1978)	1.297	99% Chebyshev (MVUE) UCL	1.423
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.367	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.606		
MLE of Mean	0.829		
MLE of Standard Deviation	0.709		
nu star	112.1		
Approximate Chi Square Value (.05)	88.67	Nonparametric Statistics	
Adjusted Level of Significance	0.0441	95% CLT UCL	1.247
Adjusted Chi Square Value	87.91	95% Jackknife UCL	1.257
		95% Standard Bootstrap UCL	1.249
Anderson-Darling Test Statistic	5.778	95% Bootstrap-t UCL	3.549
Anderson-Darling 5% Critical Value	0.767	95% Hall's Bootstrap UCL	3.139
Kolmogorov-Smirnov Test Statistic	0.298	95% Percentile Bootstrap UCL	1.336
Kolmogorov-Smirnov 5% Critical Value	0.141	95% BCA Bootstrap UCL	1.623
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	1.937
		97.5% Chebyshev(Mean, Sd) UCL	2.416
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	3.358
95% Approximate Gamma UCL (Use when n >= 40)	1.048		
95% Adjusted Gamma UCL (Use when n < 40)	1.057		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.937

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

ProUCL Summary for Benzo(a)pyrene Soil Results

Outlier Tests for Selected Variables

User Selected Options	
From File	WorkSheet.wst
Full Precision	OFF
Test for Suspected Outliers with Dixon test	1
Test for Suspected Outliers with Rosner test	1

Rosner's Outlier Test for C0

Mean	0.829
Standard Deviation	1.628
Number of data	41
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	0.829	1.608	10.82	1	6.214	3.05	3.39

For 5% Significance Level, there is 1 Potential Outlier
Therefore, Observation 10.82 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier
Therefore, Observation 10.82 is a Potential Statistical Outlier

ProUCL Summary for Pyrene Leachate Results

General UCL Statistics for Full Data Sets

User Selected Options	
From File	WorkSheet.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	200000%

C0

General Statistics			
Number of Valid Observations	20	Number of Distinct Observations	9
Raw Statistics		**Log-transformed Statistics**	
Minimum	0.01	Minimum of Log Data	-4.605
Maximum	4.03	Maximum of Log Data	1.394
Mean	0.239	Mean of log Data	-3.183
Geometric Mean	0.0415	SD of log Data	1.238
Median	0.04		
SD	0.893		
Std. Error of Mean	0.2		
Coefficient of Variation	3.743		
Skewness	4.467		

Relevant UCL Statistics			
Normal Distr bution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.256	Shapiro Wi k Test Statistic	0.706
Shapiro Wilk Critical Value	0.905	Shapiro Wi k Critical Value	0.905
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distr bution**	
95% Student's-t UCL	0.584	95% H-UCL	0.209
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.201
95% Adjusted-CLT UCL (Chen-1995)	0.78	97.5% Chebyshev (MVUE) UCL	0.252
95% Modified-t UCL (Johnson-1978)	0.617	99% Chebyshev (MVUE) UCL	0.352
Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	0.356	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.67		
MLE of Mean	0.239		
MLE of Standard Deviation	0.4		
nu star	14.23		
Approximate Chi Square Value (.05)	6.729	Nonparametric Statistics	
Adjusted Level of Significance	0.038	95% CLT UCL	0.567
Adjusted Chi Square Value	6.324	95% Jackknife UCL	0.584
		95% Standard Bootstrap UCL	0.574
Anderson-Darling Test Statistic	4.719	95% Bootstrap-t UCL	10.34
Anderson-Darling 5% Critical Value	0.828	95% Hall's Bootstrap UCL	4.537
Kolmogorov-Smirnov Test Statistic	0.413	95% Percentile Bootstrap UCL	0.637
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL	0.84
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	1.109
		97.5% Chebyshev(Mean, Sd) UCL	1.485
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.225
95% Approximate Gamma UCL (Use when n >= 40)	0.504		
95% Adjusted Gamma UCL (Use when n < 40)	0.537		

Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL	1.109

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

ProUCL Summary for Pyrene Leachate Results

Outlier Tests for Selected Variables

User Selected Options	
From File	**WorkSheet.wst**
Full Precision	OFF
Test for Suspected Outliers with Dixon test	1
Test for Suspected Outliers with Rosner test	1

Dixon's Outlier Test for C0

Number of data = 20
10% critical value: 0.401
5% critical value: 0.45
1% critical value: 0.535

1. Data Value 4.03 is a Potential Outlier (Upper Tail)?

Test Statistic: 0.983

For 10% significance level, 4.03 is an outlier.
For 5% significance level, 4.03 is an outlier.
For 1% significance level, 4.03 is an outlier.

2. Data Value 0.01 is a Potential Outlier (Lower Tail)?

Test Statistic: 0.125

For 10% significance level, 0.01 is not an outlier.
For 5% significance level, 0.01 is not an outlier.
For 1% significance level, 0.01 is not an outlier.

ATTACHMENT F2: 2D) LABORATORY TEST CERTIFICATES FROM IN SITU SAMPLES [SEE CD]

ASBESTOS ANALYSIS RESULTS

Client:	Environmental Scientifics Group	Page 1 of 1
Address:	Olympic Park, Unit 23b, Marshgate Lane Business Centre, Marshgate Lane Stratford, London E15 2NH	Report No: 610-24660-2
For the attention of	[redacted]	Report Date: 06/05/2011
Site Address:	Olympic Park Site, Stratford, London	ESG Project Number:R1080-11

SAMPLE REPORT NUMBER	SAMPLE DATE	SAMPLE LOCATION	COC NO	SAMPLE ID	SAMPLE TYPE	SAMPLE ID NO	DEPTH (M)	SAMPLE DRY WEIGHT (g)	ASBESTOS (g)	% ASBESTOS IN MATRIX	ASBESTOS FIBRES (g)	%AGE MASS (C&M)	%AGE MASS (F)	%AGE Result (FINAL)	ASBESTOS FIBRE TYPES IDENTIFIED
1	20/04/2011	JC03b-FVPSamp-1-306448	R1080-11 1	FV306448	ESC	1	0.2	836.0	NADIS					<0.001	NADIS
2	20/04/2011	JC03b-FVPSamp-2-306449	R1080-11 1	FV306449	ESC	1	0.2	774.0	NADIS					<0.001	NADIS
3	20/04/2011	JC03b-FVPSamp-3-306450	R1080-11 1	FV306450	ESC	1	0.2	742.0	NADIS					<0.001	NADIS
4	20/04/2011	JC03b-FVPSamp 4-306451	R1080-11 1	FV306451	ESC	1	0.2	759.0	NADIS					<0.001	NADIS
5	20/04/2011	JC03b-FVPSamp-5-306452	R1080-11 1	FV306452	ESC	1	0.2	691.0	NADIS					<0.001	NADIS
6	20/04/2011	JC03b-FVPSamp-6-306453	R1080-11 1	FV306453	ESC	1	0.2	685.0	NADIS					<0.001	NADIS
7	20/04/2011	JC03b-FVPSamp-7-306454	R1080-11 1	FV306454	ESC	1	0.2	930.0	NADIS					<0.001	NADIS
8	20/04/2011	JC03b-FVPSamp-8-306455	R1080-11 1	FV306455	ESC	1	0.2	765.0	NADIS					<0.001	NADIS
9	20/04/2011	JC03b-FVPSamp-9-306456	R1080-11 1	FV306456	ESC	1	0.2	872.0	NADIS					<0.001	NADIS
10	20/04/2011	JC03b-FVPSamp-10-306457	R1080-11 1	FV306457	ESC	1	0.2	772.0	NADIS					<0.001	NADIS

*Sampling carried out by client

The sample analysis for the above results was carried out using the procedures detailed in IOM Consulting Ltd's, in house method detailed in our M14 and based on HSE Contract Research Report No. 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. This analysis is carried out under UKAS accreditation.

Key

NADIS = No Asbestos Detected in Sample

Spelling mistake or other error in the results (highlighted red in column P)

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Telephone: 0131 4498000 - Facsimile: 0131 4498084 - E-Mail: iom@iom-world.org

ASBESTOS ANALYSIS RESULTS

Client:	Environmental Scientifics Group	Page 1 of 1
Address:	Olympic Park, Unit 23b, Marshgate Lane Business Centre, Marshgate Lane Stratford, London E15 2NH	Report No: 610-24779-1
For the attention of	[redacted]	Report Date: 18/05/2011
Site Address:	Olympic Park Site, Stratford, London	ESG Project Number: R1080-11

SAMPLE REPORT NUMBER	SAMPLE DATE	SAMPLE LOCATION	COC NO	SAMPLE ID	SAMPLE TYPE	SAMPLE ID NO	DEPTH (M)	SAMPLE DRY WEIGHT (g)	ASBESTOS (g)	% ASBESTOS IN MATRIX	ASBESTOS FIBRES (g)	%AGE MASS (C&M)	%AGE MASS (F)	%AGE Result (FINAL)	ASBESTOS FIBRE TYPES IDENTIFIED
1	09/05/2011	JC03b-FVPsamp1-423365	R1080-11 2	FV423365	ES	1	0.2	833.0	NADIS					<0.001	NADIS
2	09/05/2011	JC03b-FVPsamp2-423366	R1080-11 2	FV423366	ES	1	0.2	1030.0	NADIS					<0.001	NADIS
3	09/05/2011	JC03b-FVPsamp2-423367	R1080-11 2	FV423367	ES	1	0.2	1094.0	NADIS					<0.001	NADIS
4	09/05/2011	JC03b-FVPsamp4-423368	R1080-11 2	FV423368	ES	1	0.2	1020.0	NADIS					<0.001	NADIS
5	09/05/2011	JC03b-FVPsamp5-423369	R1080-11 2	FV423369	ES	1	0.2	898.0	0.001 (1)	100.000	0.001	0.006	<0.001	0.006	CHRYSOTILE (FREE FIBRES)
6	09/05/2011	JC03b-FVPsamp6-423370	R1080-11 2	FV423370	ES	1	0.2	835.0	NADIS					<0.001	NADIS
7	09/05/2011	JC03b-FVPsamp7-423371	R1080-11 2	FV423371	ES	1	0.2	918.0	NADIS					<0.001	NADIS
8	09/05/2011	JC03b-FVPsamp8-423372	R1080-11 2	FV423372	ES	1	0.2	868.0	NADIS					<0.001	NADIS
9	09/05/2011	JC03b-FVPsamp9-423373	R1080-11 2	FV423373	ES	1	0.2	788.0	NADIS					<0.001	NADIS
10	09/05/2011	JC03b-FVPsamp10 423374	R1080-11 2	FV423374	ES	1	0.2	741.0	NADIS					<0.001	NADIS
								(1) 17.03306g in sub-sample							

*Sampling carried out by client

The sample analysis for the above results was carried out using the procedures detailed in IOM Consulting Ltd's, in house method detailed in our M14 and based on HSE Contract Research Report No. 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. This analysis is carried out under UKAS accreditation.

Key

NADIS = No Asbestos Detected in Sample

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ASBESTOS ANALYSIS RESULTS

Client:	Environmental Scientifics Group	Page 1 of 1
Address:	Olympic Park, Unit 23b, Marshgate Lane Business Centre, Marshgate Lane Stratford, London E15 2NH	Report No: 610-24953
For the attention of	[redacted]	Report Date: 31/05/2011
Site Address:	Olympic Park Site, Stratford, London	ESG Project Number:R1080-11

SAMPLE REPORT NUMBER	SAMPLE DATE	SAMPLE LOCATION	COC NO	SAMPLE ID	SAMPLE TYPE	SAMPLE ID NO	DEPTH (M)	SAMPLE DRY WEIGHT (g)	ASBESTOS (g)	% ASBESTOS IN MATRIX	ASBESTOS FIBRES (g)	%AGE MASS (C&M)	%AGE MASS (F)	%AGE Result (FINAL)	ASBESTOS FIBRE TYPES IDENTIFIED
1	20/05/2011	JC03b-FVPSamp-1-306587	R1080-11 3	FV306587	ESC	1	0.2	807.0	NADIS					<0.001	NADIS
2	20/05/2011	JC03b-FVPSamp-2-306588	R1080-11 3	FV306588	ESC	1	0.2	952.0	NADIS					<0.001	NADIS
3	20/05/2011	JC03b-FVPSamp-3-306589	R1080-11 3	FV306589	ESC	1	0.2	994.0	NADIS					<0.001	NADIS
4	20/05/2011	JC03b-FVPSamp 4-306590	R1080-11 3	FV306590	ESC	1	0.2	897.0	NADIS					<0.001	NADIS
5	20/05/2011	JC03b-FVPSamp-5-306591	R1080-11 3	FV306591	ESC	1	0.2	985.0	NADIS					<0.001	NADIS
6	20/05/2011	JC03b-FVPSamp-6-306592	R1080-11 3	FV306592	ESC	1	0.2	1056.0	NADIS					<0.001	NADIS
7	20/05/2011	JC03b-FVPSamp-7-306593	R1080-11 3	FV306593	ESC	1	0.2	941.0	NADIS					<0.001	NADIS
8	20/05/2011	JC03b-FVPSamp-8-306594	R1080-11 3	FV306594	ESC	1	0.2	952.0	NADIS					<0.001	NADIS
9	20/05/2011	JC03b-FVPSamp-9-306595	R1080-11 3	FV306595	ESC	1	0.2	1026.0	NADIS					<0.001	NADIS
10	20/05/2011	JC03b-FVPSamp-10-306596	R1080-11 3	FV306596	ESC	1	0.2	926.0	NADIS					<0.001	NADIS
11	20/05/2011	JC03b-FVPSamp-11-306597	R1080-11 3	FV306597	ESC	1	0.2	1037.0	NADIS					<0.001	NADIS
12	20/05/2011	JC03b-FVPSamp-12-306598	R1080-11 3	FV306598	ESC	1	0.2	1033.0	NADIS					<0.001	NADIS
13	20/05/2011	JC03b-FVPSamp-13-306599	R1080-11 3	FV306599	ESC	1	0.2	951.0	0.001 (1)	100.000	0.001	0.005	<0.001	0.005	AMOSITE/CHRYSOTILE (FREE FIBRES)
14	20/05/2011	JC03b-FVPSamp-14-306600	R1080-11 3	FV306600	ESC	1	0.2	1052.0	NADIS					<0.001	NADIS
15	20/05/2011	JC03b-FVPSamp-15-306601	R1080-11 3	FV306601	ESC	1	0.2	891.0	NADIS					<0.001	NADIS

*Sampling carried out by client

The sample analysis for the above results was carried out using the procedures detailed in IOM Consulting Ltd's, in house method detailed in our M14 and based on HSE Contract Research Report No. 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. This analysis is carried out under UKAS accreditation.

Key

NADIS = No Asbestos Detected in Sample

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ASBESTOS ANALYSIS RESULTS

Client:	Environmental Scientifics Group	Page 1 of 1
Address:	Olympic Park, Unit 23b, Marshgate Lane Business Centre, Marshgate Lane Stratford, London E15 2NH	Report No: 610-24953
For the attention of	[redacted]	Report Date: 31/05/2011
Site Address:	Olympic Park Site, Stratford, London	ESG Project Number:R1080-11

SAMPLE REPORT NUMBER	SAMPLE DATE	SAMPLE LOCATION	COC NO	SAMPLE ID	SAMPLE TYPE	SAMPLE ID NO	DEPTH (M)	SAMPLE DRY WEIGHT (g)	ASBESTOS (g)	% ASBESTOS IN MATRIX	ASBESTOS FIBRES (g)	%AGE MASS (C&M)	%AGE MASS (F)	%AGE Result (FINAL)	ASBESTOS FIBRE TYPES IDENTIFIED
16	20/05/2011	JC03b-FVPSamp-16-306602	R1080-11 3	FV306602	ESC	1	0.2	979.0	NADIS					<0.001	NADIS
17	20/05/2011	JC03b-FVPSamp-17-306603	R1080-11 3	FV306603	ESC	1	0.2	923.0	NADIS					<0.001	NADIS
18	20/05/2011	JC03b-FVPSamp-18-306604	R1080-11 3	FV306604	ESC	1	0.2	830.0	NADIS					<0.001	NADIS
19	20/05/2011	JC03b-FVPSamp-19-306605	R1080-11 3	FV306605	ESC	1	0.2	858.0	NADIS					<0.001	NADIS
20	20/05/2011	JC03b-FVPSamp-20-306606	R1080-11 3	FV306606	ESC	1	0.2	1013.0	0.001 (2)	100	0.001	0.006	<0.001	0.006	CHRYSOTILE (FREE FIBRES)
								(1) 18.3709g in sub-sample							
								(2) 18.0103g in sub-sample							

*Sampling carried out by client

The sample analysis for the above results was carried out using the procedures detailed in IOM Consulting Ltd's, in house method detailed in our M14 and based on HSE Contract Research Report No. 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. This analysis is carried out under UKAS accreditation.

Key

NADIS = No Asbestos Detected in Sample

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Our Ref: EFS/113618M (Ver. 1)
Your Ref: R1080-11

May 20, 2011

Scientifics
Bretby Business Park
Ashby Road
Burton-on-Trent
Staffordshire
DE15 0YZ

Telephone: 01283 554400
Facsimile: 01283 554422

[redacted]
Environmental Services Group
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

For the attention of [redacted]

Dear [redacted]

SOIL Sample Analysis - Jackson CE, Warm-Up Track, OP

Samples from the above site have been analysed in accordance with the schedule supplied.
The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

The samples will be kept until the agreed date when they will be discarded. Please call [redacted] for an extension of this date.
Please be aware that from 1 January 2003 our policy for the retention of paper based laboratory records and analysis reports will be 6 years.

The work was carried out in accordance with Environmental Scientifics Group Ltd (Scientifics) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for [redacted]

Scientifics, P.O. Box 100, Burton-upon-trent, DE15 0XD Tel: 01283 554400 Fax: 01283 554422
Scientifics is a trading name of Environmental Scientifics Group Limited.
Registered No: 2880501

TEST REPORT
SOIL SAMPLE ANALYSIS

1252

Report No. EFS/113618M (Ver. 1)

Environmental Services Group
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

Site: Jackson CE, Warm-Up Track, OP

The 10 samples described in this report were logged for analysis by Scientifics on 28-Apr-2011. This report supersedes any versions previously issued by the laboratory.
The analysis was completed by: 20-May-2011

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited
Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics.

The following tables are contained in this report:

On behalf of
Scientifics : [redacted]

Date of Issue: 20-May-2011

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)
Tests marked '^' have been subcontracted to another laboratory.
(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.
All results are reported on a dry weight basis at 105^{o}C unless otherwise stated. (except QC samples)
Scientifics accepts no responsibility for any sampling not carried out by our personnel.

Units :		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	ug/kg			
Method Codes :		ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	PAHMSUS	TMSS	TPHUSSI	VOCSW8100			
Method Reporting Limits :		0.3	0.2	1.2	1.6	0.7	0 5	2	0.5	16	0.08	0.2	10.0	5			
Accreditation Code:		UM	UM	UM	UM	UM	UM	UM	UM	UM		U					
Laboratory ID Number CL/	**Client Sample Description**	**Arsenic (MS)**	**Cadmium (MS)**	**Chromium (MS)**	**Copper (MS)**	**Lead (MS)**	**Mercury (MS)**	**Nickel (MS)**	**Selenium (MS)**	**Zinc (MS)**	**PAH by MS.16(0.08)**	**Tot.Moisture @ 105C**	**TPH by GCFID (AR/Si)**	**VOC by GCMS (8100)**			
1116714	FV306448 ESC 1 0.20	15 9	0.3	25.7	59.1	132.4	1.66	20.7	1.8	109	Req	13.9	Req	Req			
1116715	FV306449 ESC 1 0.20	9.5	0.22	29.2	39	117.6	<0.51	17	1.7	88.6	Req	12.4	Req	Req			
1116716	FV306450 ESC 1 0.20	7.8	0.2	33	47.1	109.9	<0.52	15.4	1.6	93	Req	12.3	Req	Req			
1116717	FV306451 ESC 1 0.20	8	0.3	18	70.3	97.3	<0.5	14.5	1.4	119.5	Req	11.1	Req	Req			
1116718	FV306452 ESC 1 0.20	9.1	0.2	20.4	39.2	89.5	<0.52	15.5	1.6	83.2	Req	14.4	Req	Req			
1116719	FV306453 ESC 1 0.20	8.2	0.25	24	45.5	102.3	<0.5	18.9	1.8	107.8	Req	14.6	Req	Req			
1116720	FV306454 ESC 1 0.20	7.2	<0.21	18.8	41.2	70.4	<0.54	14.9	1.7	71.2	Req	16.1	Req	Req			
1116721	FV306455 ESC 1 0.20	6.9	0.2	18.2	43.3	114.9	<0.5	13.3	1.3	93.6	Req	15.9	Req	Req			
1116722	FV306456 ESC 1 0.20	7.8	0.24	23.3	83.1	114.5	<0.50	15.7	1.5	113.3	Req	10.4	Req	Req			
1116723	FV306457 ESC 1 0.20	7.2	0.29	19	40.6	84	<0.47	14.6	1.5	80	Req	16.7	Req	Req			

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Burton-on-Trent, Staffordshire, DE15 0YZ
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Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Soils Sample Analysis

Date Printed	20-May-11
Report Number	**EFS/113618M**
Table Number	**1**

Where individual results are flagged see report notes for status.
Resu ts corrected to dry weight at 105ºC where appr opriate, in accordance with the MCERTS standard.

Units :		mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg									
Method Codes :		GROHSA	Sub030	PHEHPLC	PHEHPLC	PHEHPLC	PHEHPLC	PHEHPLC									
Method Reporting Limits :		0.2		0.3	0.3	0.3	0 3	0.3									
Accreditation Code:				UM	U	U	U	U									
Laboratory ID Number CL/	**Client Sample Description**	**GRO (AA-2012)**	**^Dioxins & Furans MW**	**Phenol**	**Cresols**	**Xylenols**	**Trimethylphenols**	**Total Phenols**									
1116714	FV306448 ESC 1 0.20	Req	Req	<0.3	<0.3	<0.3	<0.3	<1.4									
1116715	FV306449 ESC 1 0.20	Req	Req	<0.3	<0.3	<0.3	<0.3	<1.4									
1116716	FV306450 ESC 1 0.20	Req	Req	<0.3	<0.3	<0.3	<0.3	<1.4									
1116717	FV306451 ESC 1 0.20	Req	Req	<0.3	<0.3	<0.3	<0.3	<1.3									
1116718	FV306452 ESC 1 0.20	Req	Req	<0.4	<0.4	<0.4	<0.4	<1.4									
1116719	FV306453 ESC 1 0.20	Req	Req	<0.4	<0.4	<0.4	<0.4	<1.4									
1116720	FV306454 ESC 1 0.20	Req	Req	<0.4	<0.4	<0.4	<0.4	<1.4									
1116721	FV306455 ESC 1 0.20	Req	Req	<0.4	<0.4	<0.4	<0.4	<1.4									
1116722	FV306456 ESC 1 0.20	Req	Req	<0.3	<0.3	<0.3	<0.3	<1.3									
1116723	FV306457 ESC 1 0.20	Req	Req	<0.4	<0.4	<0.4	<0.4	<1.4									

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Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Soils Sample Analysis

Date Printed	20-May-11
Report Number	**EFS/113618M**
Table Number	**1**

Where individual results are flagged see report notes for status.
Resu ts corrected to dry weight at 105ºC where appr opriate, in accordance with the MCERTS standard.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306448 ESC 1 0.20	**Job Number:**	S11_3618M
LIMS ID Number:	CL1116714	**Date Booked in:**	28-Apr-11
QC Batch Number:	110973	**Date Extracted:**	06-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	07-May-11
Directory:	0711PAH.MS5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	4.62	0.90	97	U
Acenaphthene	83-32-9	4.74	0.27	97	UM
Fluorene	86-73-7	5.15	0.49	88	UM
Phenanthrene	85-01-8	6.04	13.00	100	UM
Anthracene	120-12-7	6.10	2.92	89	U
Fluoranthene	206-44-0	7.43	14.30	95	UM
Pyrene	129-00-0	7.73	32.60	96	UM
Benzo[a]anthracene	56-55-3	9.45	13.50	96	UM
Chrysene	218-01-9	9.50	10.20	94	UM
Benzo[b]fluoranthene	205-99-2	11.00	8.35	97	UM
Benzo[k]fluoranthene	207-08-9	11.03	2.24	96	UM
Benzo[a]pyrene	50-32-8	11.43	10.82	99	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.84	4.46	91	UM
Dibenzo[a,h]anthracene	53-70-3	12.87	1.20	94	UM
Benzo[g,h,i]perylene	191-24-2	13.19	5.68	97	UM
Total (USEPA16) PAHs	-	-	< 120.81	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	98
Acenaphthene-d10	98
Phenanthrene-d10	100
Chrysene-d12	116
Perylene-d12	126

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	94
Terphenyl-d14	96

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306449 ESC 1 0.20	**Job Number:**	S11_3618M
LIMS ID Number:	CL1116715	**Date Booked in:**	28-Apr-11
QC Batch Number:	110973	**Date Extracted:**	06-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	07-May-11
Directory:	0711PAH.MS5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	6.04	0.50	94	UM
Anthracene	120-12-7	6.10	0.17	95	U
Fluoranthene	206-44-0	7.43	1.05	96	UM
Pyrene	129-00-0	7.73	0.94	95	UM
Benzo[a]anthracene	56-55-3	9.45	0.54	97	UM
Chrysene	218-01-9	9.50	0.37	98	UM
Benzo[b]fluoranthene	205-99-2	11.00	0.63	96	UM
Benzo[k]fluoranthene	207-08-9	11.03	0.29	95	UM
Benzo[a]pyrene	50-32-8	11.43	0.53	100	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.85	0.42	97	UM
Dibenzo[a,h]anthracene	53-70-3	12.88	0.09	87	UM
Benzo[g,h,i]perylene	191-24-2	13.19	0.39	97	UM
Total (USEPA16) PAHs	-	-	< 6.27	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	100
Acenaphthene-d10	100
Phenanthrene-d10	100
Chrysene-d12	110
Perylene-d12	116

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	94
Terphenyl-d14	98

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306450 ESC 1 0.20	**Job Number:**	S11_3618M
LIMS ID Number:	CL1116716	**Date Booked in:**	28-Apr-11
QC Batch Number:	110973	**Date Extracted:**	06-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	07-May-11
Directory:	0711PAH.MS5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	6.04	0.51	97	UM
Anthracene	120-12-7	6.10	0.18	97	U
Fluoranthene	206-44-0	7.44	1.47	96	UM
Pyrene	129-00-0	7.73	1.36	95	UM
Benzo[a]anthracene	56-55-3	9.45	0.75	94	UM
Chrysene	218-01-9	9.50	0.49	98	UM
Benzo[b]fluoranthene	205-99-2	11.00	0.82	80	UM
Benzo[k]fluoranthene	207-08-9	11.03	0.30	81	UM
Benzo[a]pyrene	50-32-8	11.43	0.66	97	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.85	0.51	95	UM
Dibenzo[a,h]anthracene	53-70-3	12.88	0.10	88	UM
Benzo[g,h,i]perylene	191-24-2	13.19	0.49	98	UM
Total (USEPA16) PAHs	-	-	< 8.07	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	97
Acenaphthene-d10	98
Phenanthrene-d10	100
Chrysene-d12	102
Perylene-d12	108

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	94
Terphenyl-d14	94

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306451 ESC 1 0.20	**Job Number:**	S11_3618M
LIMS ID Number:	CL1116717	**Date Booked in:**	28-Apr-11
QC Batch Number:	110973	**Date Extracted:**	06-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	07-May-11
Directory:	0711PAH.MS5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	6.04	0.29	93	UM
Anthracene	120-12-7	6.10	0.10	94	U
Fluoranthene	206-44-0	7.44	0.83	96	UM
Pyrene	129-00-0	7.73	0.89	97	UM
Benzo[a]anthracene	56-55-3	9.45	0.47	94	UM
Chrysene	218-01-9	9.50	0.33	92	UM
Benzo[b]fluoranthene	205-99-2	11.00	0.51	78	UM
Benzo[k]fluoranthene	207-08-9	11.03	0.21	79	UM
Benzo[a]pyrene	50-32-8	11.44	0.42	92	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.85	0.30	98	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	13.19	0.31	100	UM
Total (USEPA16) PAHs	-	-	< 5.15	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	99
Acenaphthene-d10	98
Phenanthrene-d10	103
Chrysene-d12	109
Perylene-d12	118

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	95
Terphenyl-d14	96

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306452 ESC 1 0.20	**Job Number:**	S11_3618M
LIMS ID Number:	CL1116718	**Date Booked in:**	28-Apr-11
QC Batch Number:	110973	**Date Extracted:**	06-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	07-May-11
Directory:	0711PAH.MS5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	6.04	0.51	94	UM
Anthracene	120-12-7	6.10	0.15	96	U
Fluoranthene	206-44-0	7.44	1.14	96	UM
Pyrene	129-00-0	7.73	1.04	95	UM
Benzo[a]anthracene	56-55-3	9.45	0.60	93	UM
Chrysene	218-01-9	9.50	0.42	95	UM
Benzo[b]fluoranthene	205-99-2	11.00	0.67	84	UM
Benzo[k]fluoranthene	207-08-9	11.03	0.25	85	UM
Benzo[a]pyrene	50-32-8	11.44	0.55	98	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.85	0.44	96	UM
Dibenzo[a,h]anthracene	53-70-3	12.88	0.09	90	UM
Benzo[g,h,i]perylene	191-24-2	13.19	0.42	83	UM
Total (USEPA16) PAHs	-	-	< 6.65	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	99
Acenaphthene-d10	98
Phenanthrene-d10	96
Chrysene-d12	104
Perylene-d12	112

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	95
Terphenyl-d14	99

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306453 ESC 1 0.20	**Job Number:**	S11_3618M
LIMS ID Number:	CL1116719	**Date Booked in:**	28-Apr-11
QC Batch Number:	110973	**Date Extracted:**	06-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	07-May-11
Directory:	0711PAH.MS5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.54	0.16	70	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	6.04	0.49	94	UM
Anthracene	120-12-7	6.10	0.15	96	U
Fluoranthene	206-44-0	7.44	0.90	96	UM
Pyrene	129-00-0	7.73	0.77	94	UM
Benzo[a]anthracene	56-55-3	9.45	0.44	97	UM
Chrysene	218-01-9	9.50	0.30	95	UM
Benzo[b]fluoranthene	205-99-2	11.00	0.48	78	UM
Benzo[k]fluoranthene	207-08-9	11.03	0.20	79	UM
Benzo[a]pyrene	50-32-8	11.43	0.39	96	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.85	0.40	98	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	13.19	0.33	98	UM
Total (USEPA16) PAHs	-	-	< 5.40	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	101
Acenaphthene-d10	101
Phenanthrene-d10	101
Chrysene-d12	110
Perylene-d12	117

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	94
Terphenyl-d14	98

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306454 ESC 1 0.20	**Job Number:**	S11_3618M
LIMS ID Number:	CL1116720	**Date Booked in:**	28-Apr-11
QC Batch Number:	110973	**Date Extracted:**	06-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	07-May-11
Directory:	0711PAH.MS5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.10	-	**UM**
Acenaphthylene	208-96-8	-	< 0.10	-	U
Acenaphthene	83-32-9	-	< 0.10	-	UM
Fluorene	86-73-7	-	< 0.10	-	UM
Phenanthrene	85-01-8	6.04	0.26	93	UM
Anthracene	120-12-7	-	< 0.10	-	U
Fluoranthene	206-44-0	7.44	0.43	97	UM
Pyrene	129-00-0	7.73	0.38	97	UM
Benzo[a]anthracene	56-55-3	9.45	0.25	96	UM
Chrysene	218-01-9	9.50	0.15	98	UM
Benzo[b]fluoranthene	205-99-2	11.00	0.26	92	UM
Benzo[k]fluoranthene	207-08-9	-	< 0.10	-	UM
Benzo[a]pyrene	50-32-8	11.43	0.23	96	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.85	0.19	98	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.10	-	UM
Benzo[g,h,i]perylene	191-24-2	13.19	0.19	95	UM
Total (USEPA16) PAHs	-	-	< 3.02	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	99
Acenaphthene-d10	99
Phenanthrene-d10	101
Chrysene-d12	101
Perylene-d12	106

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	94
Terphenyl-d14	94

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306455 ESC 1 0.20	**Job Number:**	S11_3618M
LIMS ID Number:	CL1116721	**Date Booked in:**	28-Apr-11
QC Batch Number:	110973	**Date Extracted:**	06-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	07-May-11
Directory:	0711PAH.MS5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.54	0.10	70	**UM**
Acenaphthylene	208-96-8	-	< 0.10	-	U
Acenaphthene	83-32-9	4.74	0.15	97	UM
Fluorene	86-73-7	-	< 0.10	-	UM
Phenanthrene	85-01-8	6.04	1.59	98	UM
Anthracene	120-12-7	6.10	0.37	98	U
Fluoranthene	206-44-0	7.43	2.39	97	UM
Pyrene	129-00-0	7.73	1.89	95	UM
Benzo[a]anthracene	56-55-3	9.45	1.05	94	UM
Chrysene	218-01-9	9.50	0.74	97	UM
Benzo[b]fluoranthene	205-99-2	11.00	1.05	81	UM
Benzo[k]fluoranthene	207-08-9	11.03	0.43	82	UM
Benzo[a]pyrene	50-32-8	11.43	0.82	98	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.85	0.62	94	UM
Dibenzo[a,h]anthracene	53-70-3	12.88	0.10	82	UM
Benzo[g,h,i]perylene	191-24-2	13.19	0.60	97	UM
Total (USEPA16) PAHs	-	-	< 12.07	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	98
Acenaphthene-d10	97
Phenanthrene-d10	95
Chrysene-d12	102
Perylene-d12	108

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	94
Terphenyl-d14	96

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306456 ESC 1 0.20	**Job Number:**	S11_3618M
LIMS ID Number:	CL1116722	**Date Booked in:**	28-Apr-11
QC Batch Number:	110973	**Date Extracted:**	06-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	07-May-11
Directory:	0711PAH.MS5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	6.04	0.64	96	UM
Anthracene	120-12-7	6.10	0.17	97	U
Fluoranthene	206-44-0	7.43	1.00	96	UM
Pyrene	129-00-0	7.73	0.97	95	UM
Benzo[a]anthracene	56-55-3	9.45	0.54	93	UM
Chrysene	218-01-9	9.50	0.39	93	UM
Benzo[b]fluoranthene	205-99-2	11.00	0.58	98	UM
Benzo[k]fluoranthene	207-08-9	11.03	0.20	97	UM
Benzo[a]pyrene	50-32-8	11.44	0.46	95	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.85	0.37	97	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	13.19	0.36	98	UM
Total (USEPA16) PAHs	-	-	< 6.30	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	97
Acenaphthene-d10	98
Phenanthrene-d10	97
Chrysene-d12	104
Perylene-d12	112

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	93
Terphenyl-d14	98

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306457 ESC 1 0.20	**Job Number:**	S11_3618M
LIMS ID Number:	CL1116723	**Date Booked in:**	28-Apr-11
QC Batch Number:	110973	**Date Extracted:**	06-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	07-May-11
Directory:	0711PAH.MS5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.10	-	**UM**
Acenaphthylene	208-96-8	-	< 0.10	-	U
Acenaphthene	83-32-9	-	< 0.10	-	UM
Fluorene	86-73-7	-	< 0.10	-	UM
Phenanthrene	85-01-8	6.04	0.17	94	UM
Anthracene	120-12-7	-	< 0.10	-	U
Fluoranthene	206-44-0	7.44	0.34	99	UM
Pyrene	129-00-0	7.73	0.29	97	UM
Benzo[a]anthracene	56-55-3	9.45	0.19	97	UM
Chrysene	218-01-9	9.50	0.14	96	UM
Benzo[b]fluoranthene	205-99-2	11.00	0.19	96	UM
Benzo[k]fluoranthene	207-08-9	-	< 0.10	-	UM
Benzo[a]pyrene	50-32-8	11.43	0.14	93	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.85	0.14	77	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.10	-	UM
Benzo[g,h,i]perylene	191-24-2	13.19	0.14	98	UM
Total (USEPA16) PAHs	-	-	< 2.42	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	100
Acenaphthene-d10	100
Phenanthrene-d10	101
Chrysene-d12	104
Perylene-d12	107

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	95
Terphenyl-d14	96

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Gasoline Range Organics
(BTEX and Aromatic/Aliphatic Carbon Ranges)

Customer and Site Details:	Soil Mechanics : Jackson CE, Warm-Up Track, OP	**Matrix:**	Soil
Job Number:	S11_3618	**Date Booked in:**	28-Apr-11
Directory:	D:\TES\DATA\Y2011\0510HSA_GC12\051011C 2011-05-12 09-29-32\151B0101.D	**Date extracted:**	10-May-11
Method:	HEADSPACE GCFID	**Date Analysed:**	12-May-11, 09:45:34
Accreditation Code:	N	**Units:**	mg/kg

			Aromatics		Aliphatics		GRO	
Sample ID	**Client ID**		**C5 - C7**	**>C7 - C8**	**C5 - C6**	**>C6 - C8**	**C8-C10**	**C5 - C10**
*	CL1116714	FV306448 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	0.32	0.45
*	CL1116715	FV306449 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1116716	FV306450 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1116717	FV306451 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1116718	FV306452 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1116719	FV306453 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1116720	FV306454 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1116721	FV306455 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1116722	FV306456 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1116723	FV306457 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

ALIPHATIC / AROMATIC FRACTION BY GC/FID

Customer and Site Details: Soil Mechanics : Jackson CE, Warm-Up Track, OP
Job Number: S11_3618
QC Batch Number: 111000
Directory: D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\070B8301.D
Method: Ultra Sonic

Separation: Silica gel
Eluents: Hexane, DCM

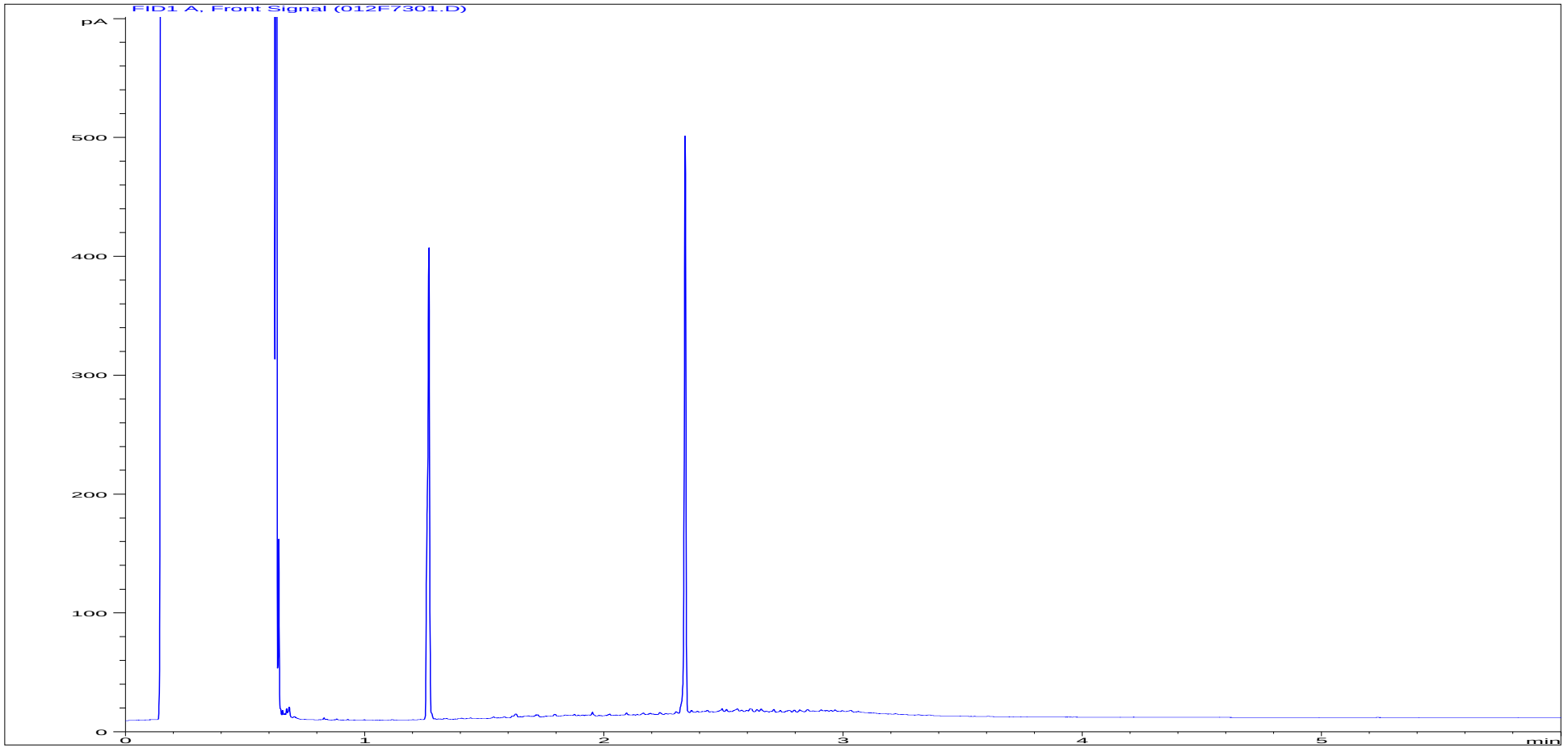
Matrix: Soil
Date Booked in 28-Apr-11
Date Extracted 11-May-11
Date Analysed: 13-May-11, 01:29:32

This sample data is not MCERTS accredited.
*** This sample data is not ISO17025 accredited.**

		Concentration, (mg/kg) - as dry weight.											
		>C8 - C10		>C10 - C12		>C12 - C16		>C16 - C21		>C21 - C35		>C8 - C40	
Sample ID	**Client ID**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**
CL1116714	FV306448 ESC 1 0.20	<5	<5	<5	<5	6	5.15	17	12.3	62	54.1	101	96.7
CL1116715	FV306449 ESC 1 0.20	<5	<5	<5	<5	4.73	<5	16.8	10.13	67.6	50.6	105.9	78.9
CL1116716	FV306450 ESC 1 0.20	<5	<5	<5	<5	5.09	4.64	19.2	18.6	83	86 5	130	140
CL1116717	FV306451 ESC 1 0.20	<4	<4	<4	<4	5.66	<4	18.2	12.9	73	68.7	123	114
CL1116718	FV306452 ESC 1 0.20	<5	<5	<5	<5	6.36	5.43	21.7	19	75.2	66	126	119
CL1116719	FV306453 ESC 1 0.20	<5	<5	<5	<5	11.5	7 86	27.4	20.3	82.9	67 3	144	122
CL1116720	FV306454 ESC 1 0.20	<5	<5	<5	<5	4.99	<5	15.4	7.32	56.3	38 9	92.1	64.1
CL1116721	FV306455 ESC 1 0.20	<5	<5	<5	<5	15.8	8 99	37.5	27.6	118	107.3	221	206
CL1116722	FV306456 ESC 1 0.20	<4	<4	<4	<4	8.55	8.6	23.1	20.9	88.8	88 5	152	144
CL1116723	FV306457 ESC 1 0.20	<5	<5	<5	<5	<5	<5	5.15	<5	31	19.7	46	29.5

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

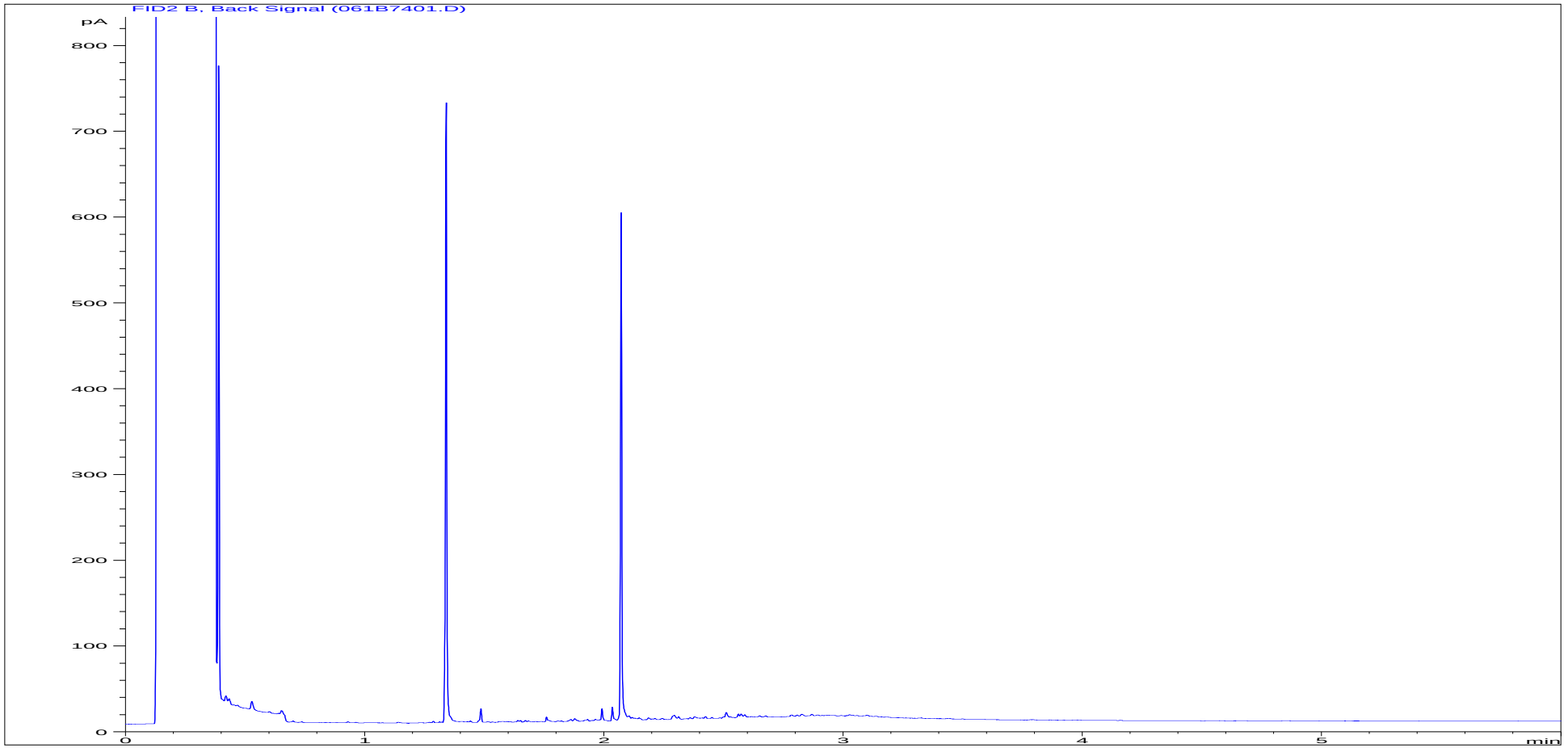
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1116714ALI	**Job Number:**	S11_3618M
Multiplier:	15.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306448 ESC 1 0.20
Acquisition Date/Time:	12-May-11, 23:30:26		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\012F7301.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

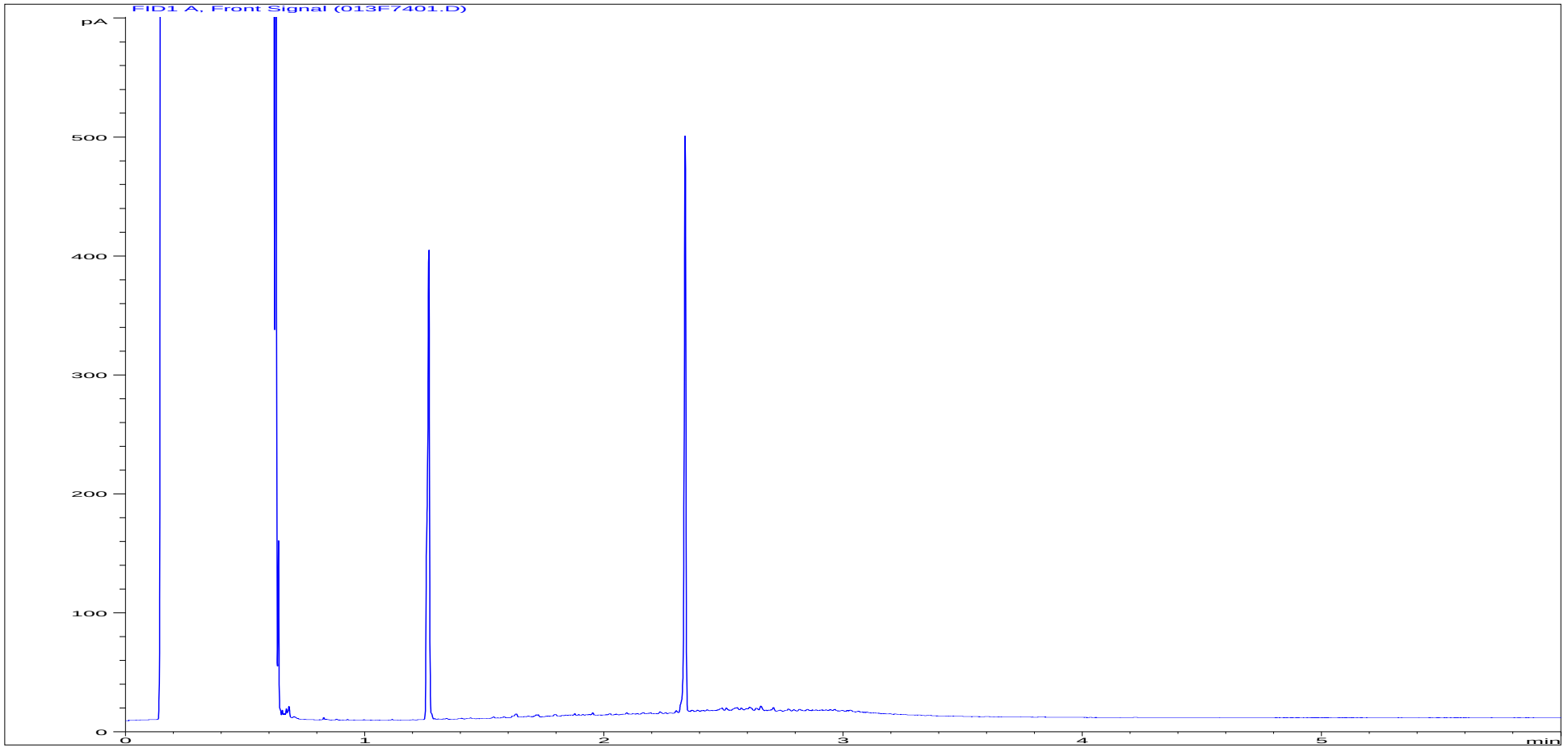
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1116714ARO	**Job Number:**	S11_3618M
Multiplier:	12.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306448 ESC 1 0.20
Acquisition Date/Time:	12-May-11, 23:42:32		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\061B7401.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

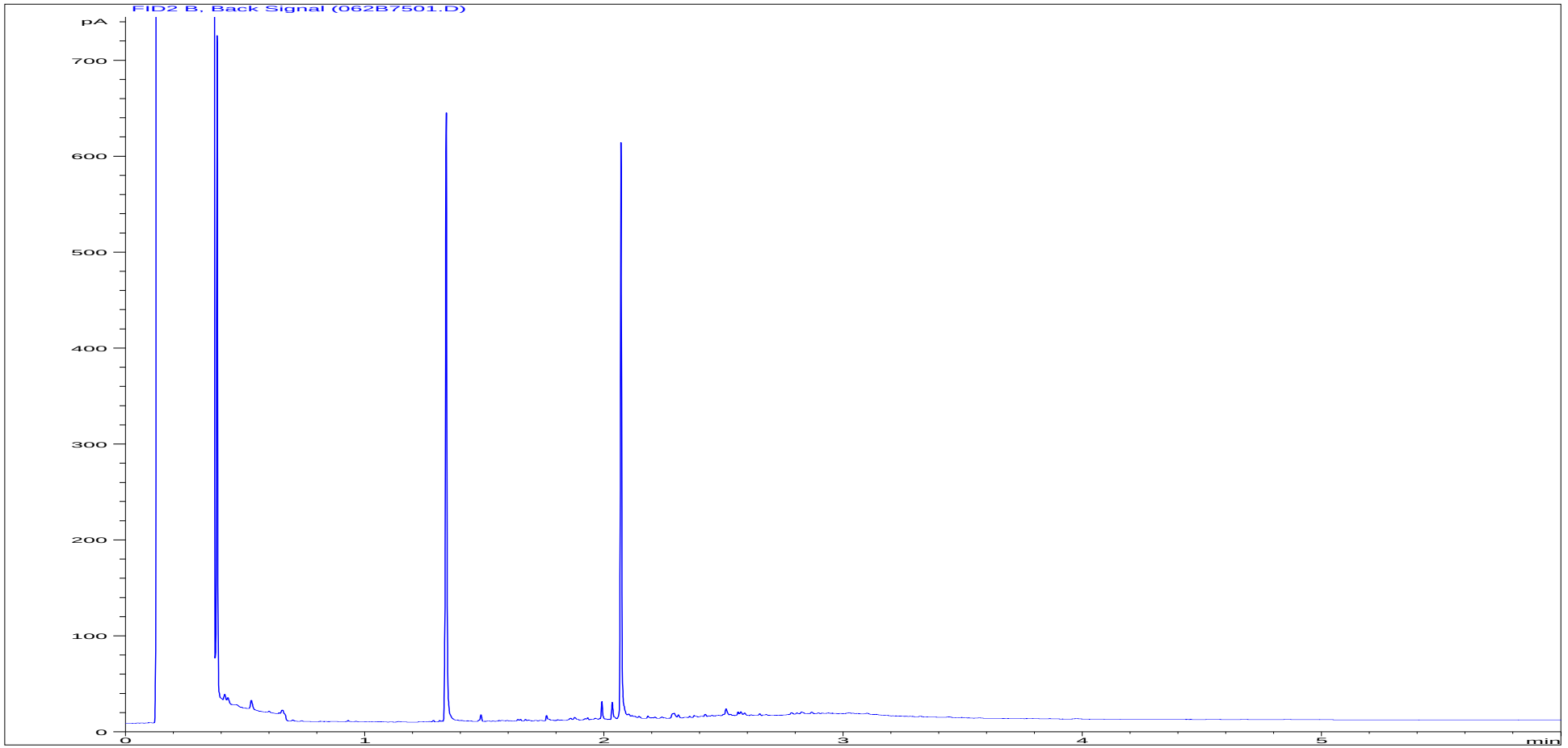
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1116715ALI	**Job Number:**	S11_3618M
Multiplier:	15.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306449 ESC 1 0.20
Acquisition Date/Time:	12-May-11, 23:42:32		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\013F7401.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

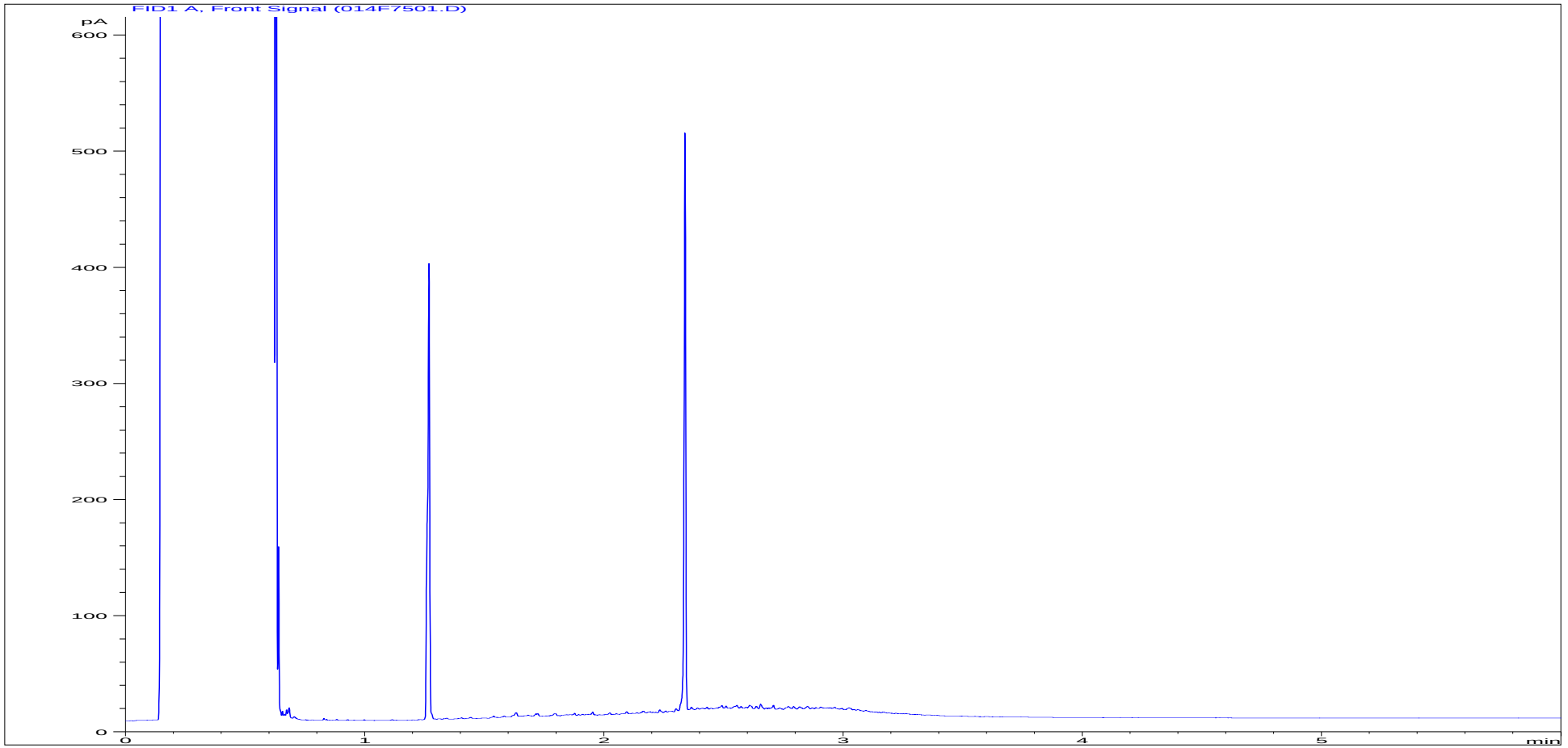
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1116715ARO	**Job Number:**	S11_3618M
Multiplier:	12.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306449 ESC 1 0.20
Acquisition Date/Time:	12-May-11, 23:54:26		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\062B7501.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

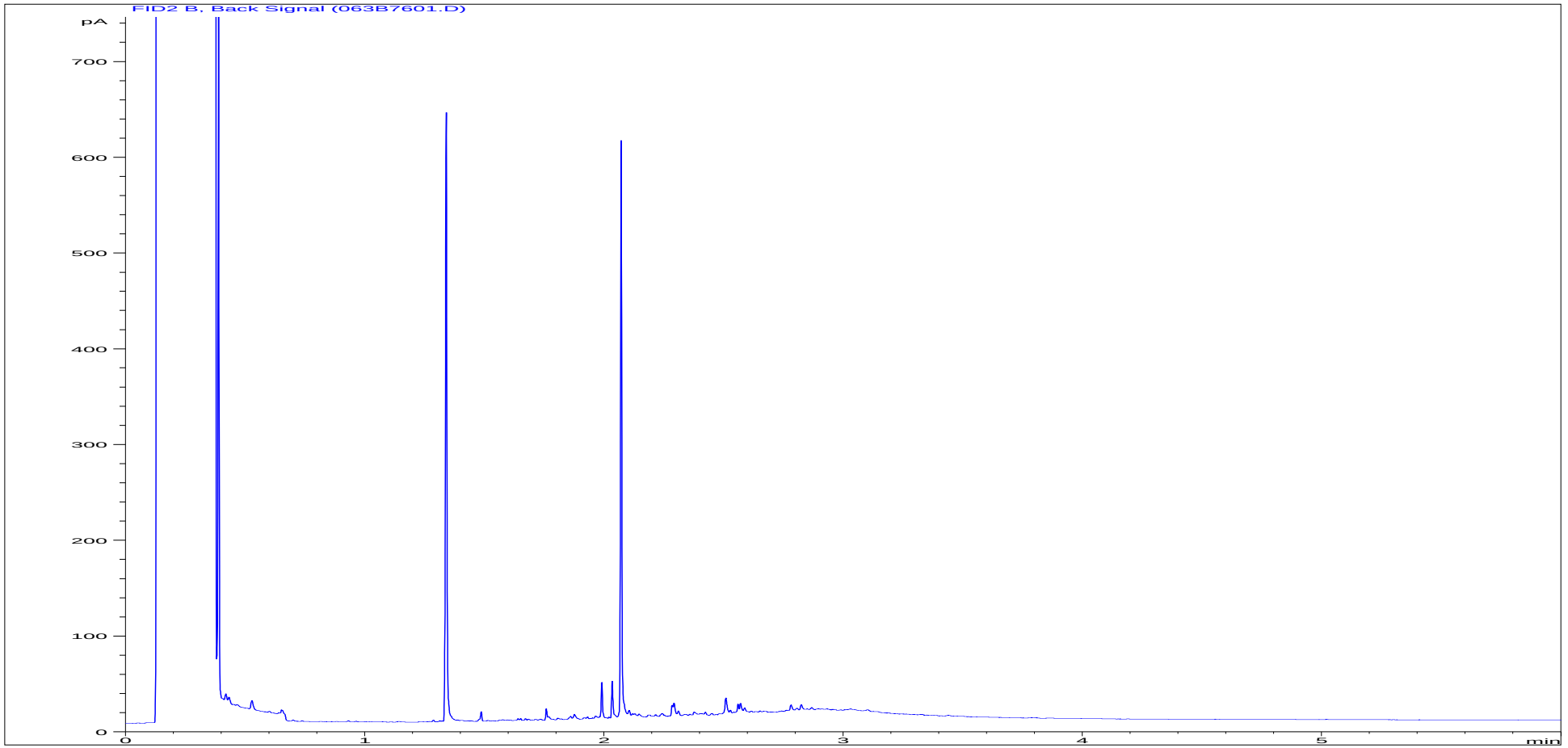
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1116716ALI	**Job Number:**	S11_3618M
Multiplier:	15.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306450 ESC 1 0.20
Acquisition Date/Time:	12-May-11, 23:54:26		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\014F7501.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

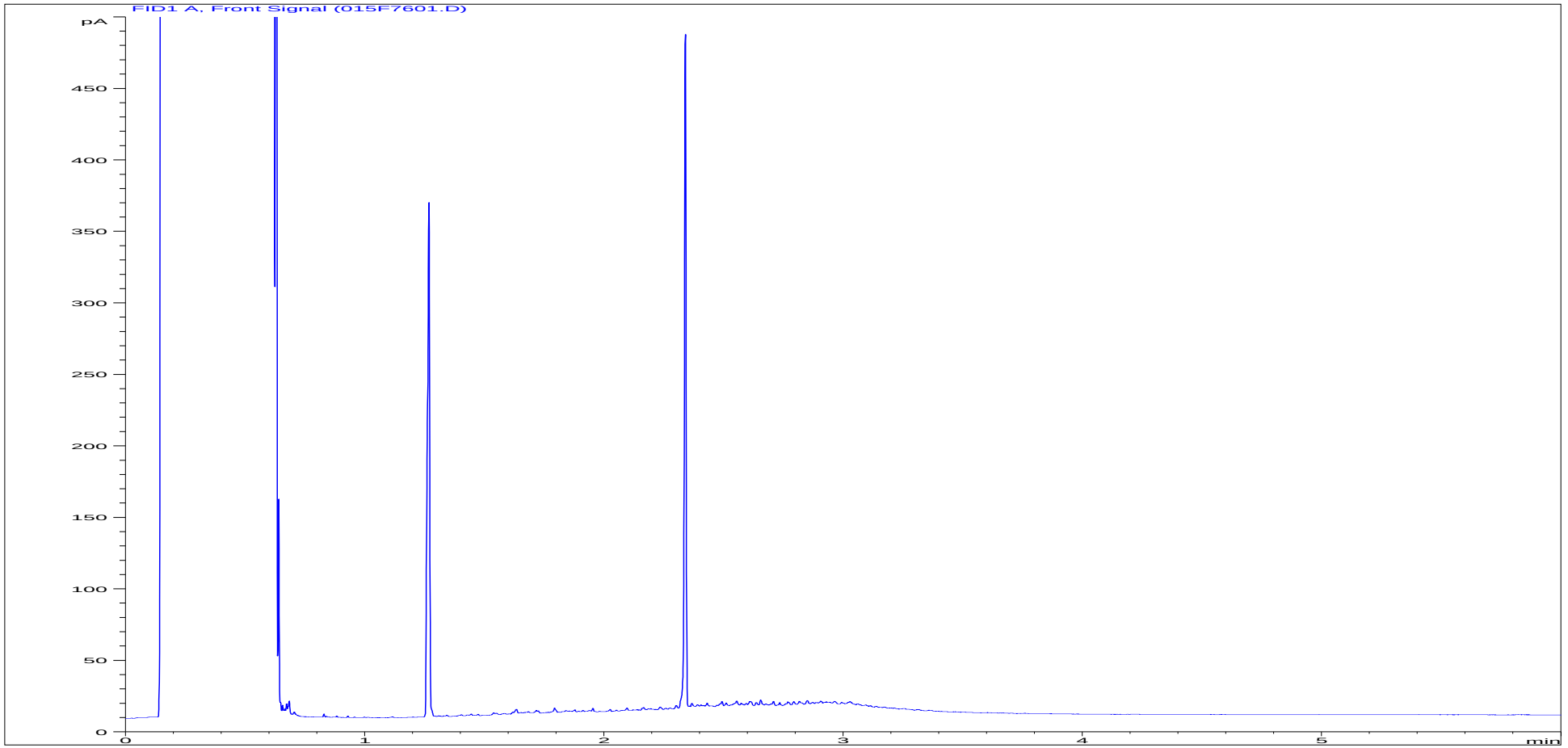
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1116716ARO	**Job Number:**	S11_3618M
Multiplier:	12.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306450 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 00:06:20		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\063B7601.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

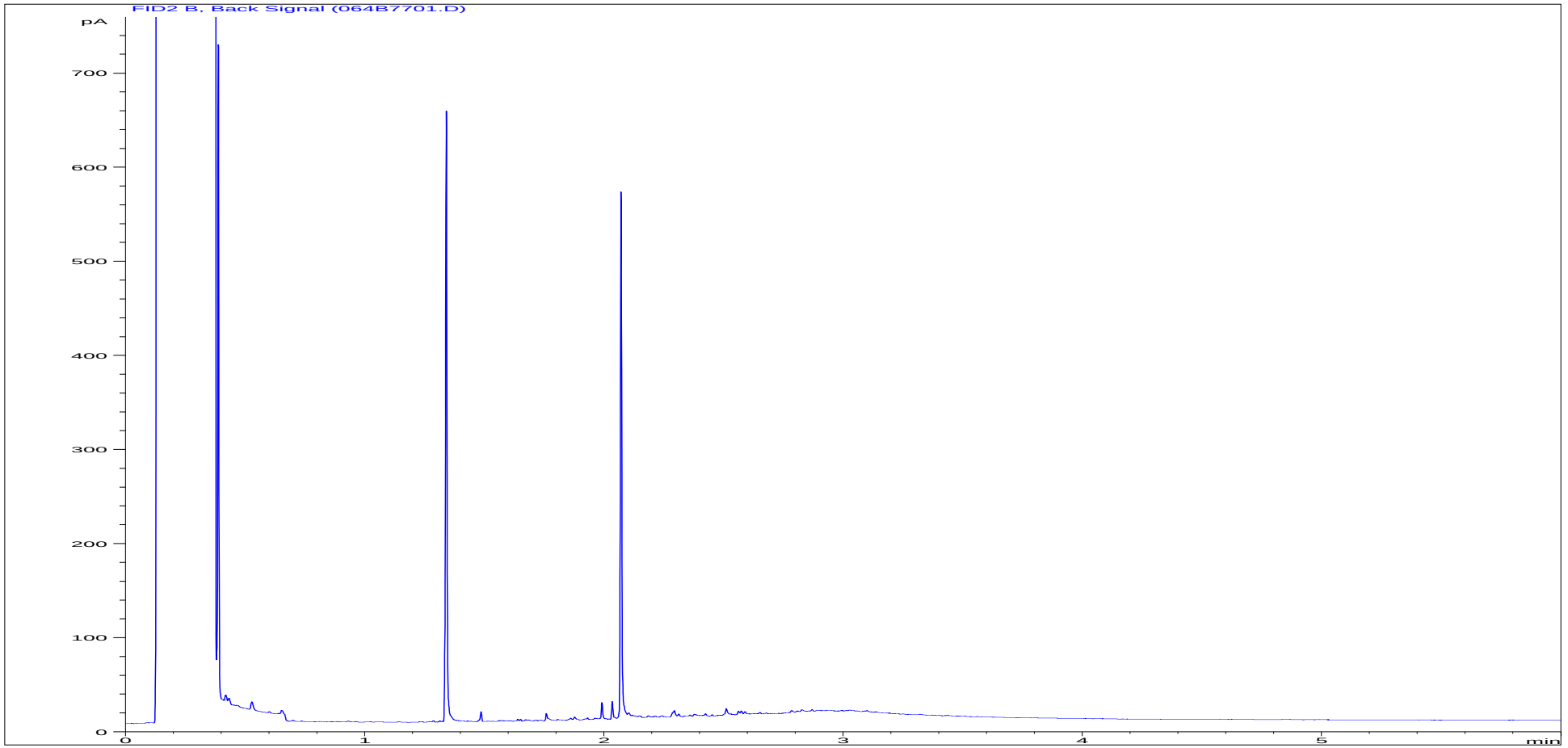
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1116717ALI	**Job Number:**	S11_3618M
Multiplier:	15.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306451 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 00:06:20		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\015F7601.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

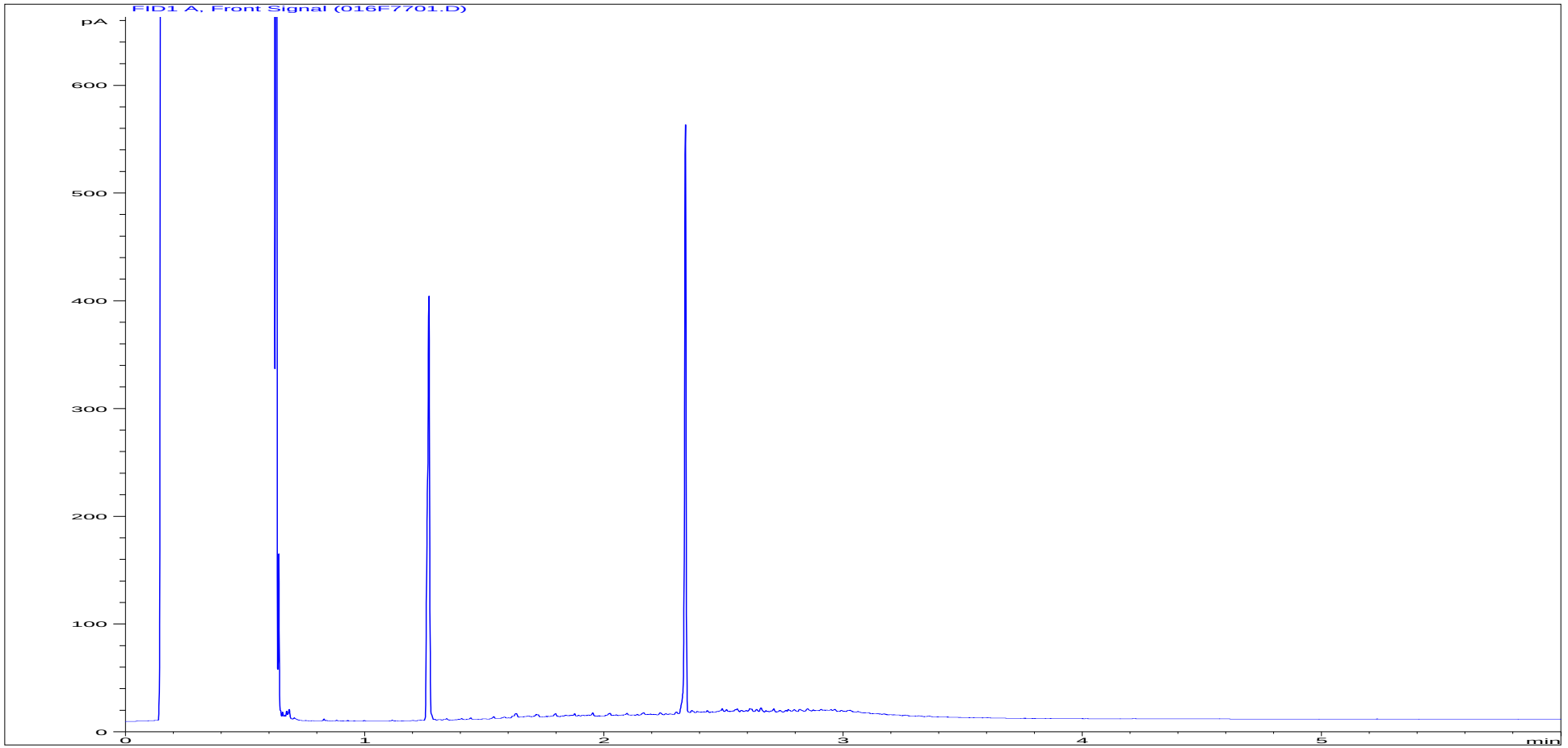
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1116717ARO	**Job Number:**	S11_3618M
Multiplier:	12.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306451 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 00:18:10		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\064B7701.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

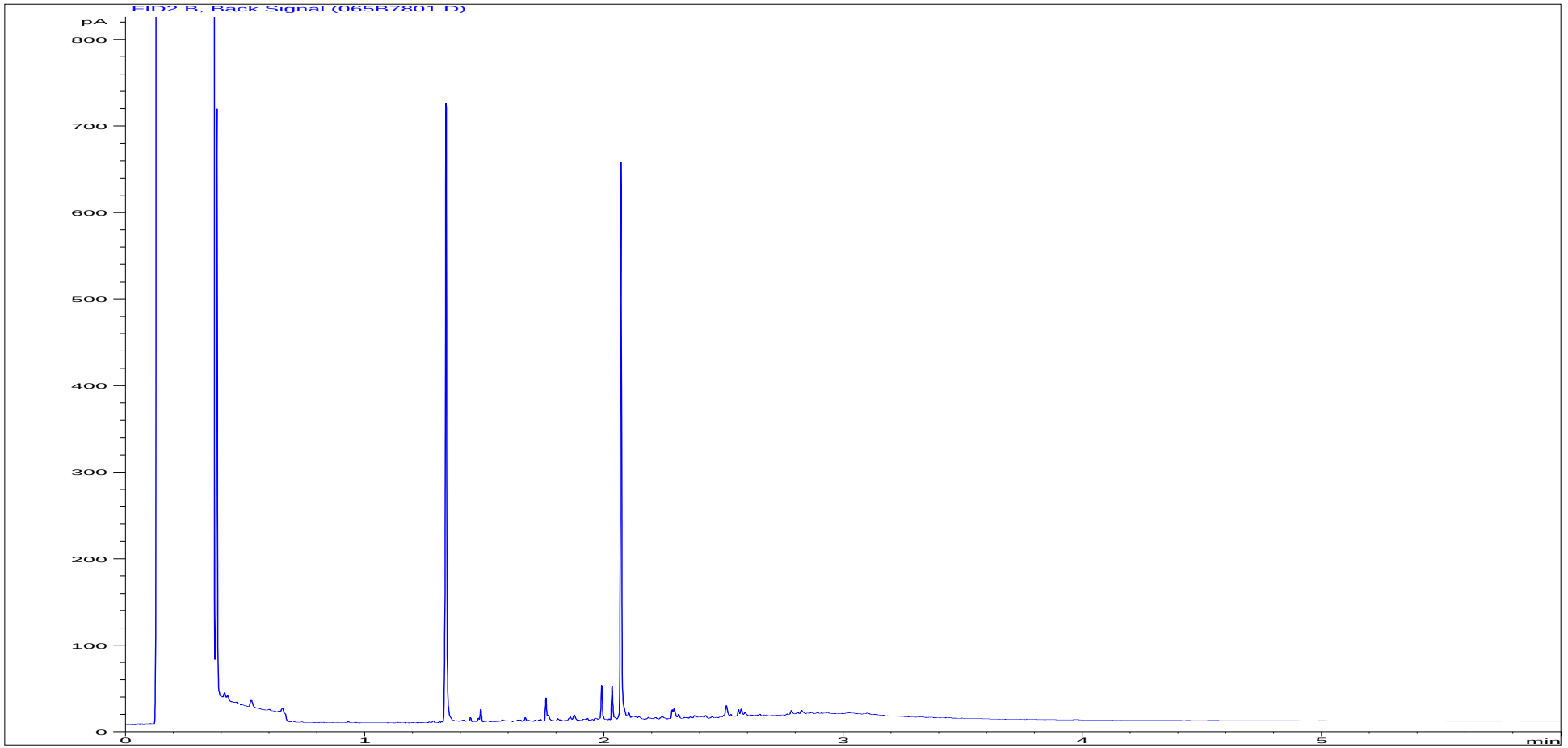
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1116718ALI	**Job Number:**	S11_3618M
Multiplier:	15.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306452 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 00:18:10		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\016F7701.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

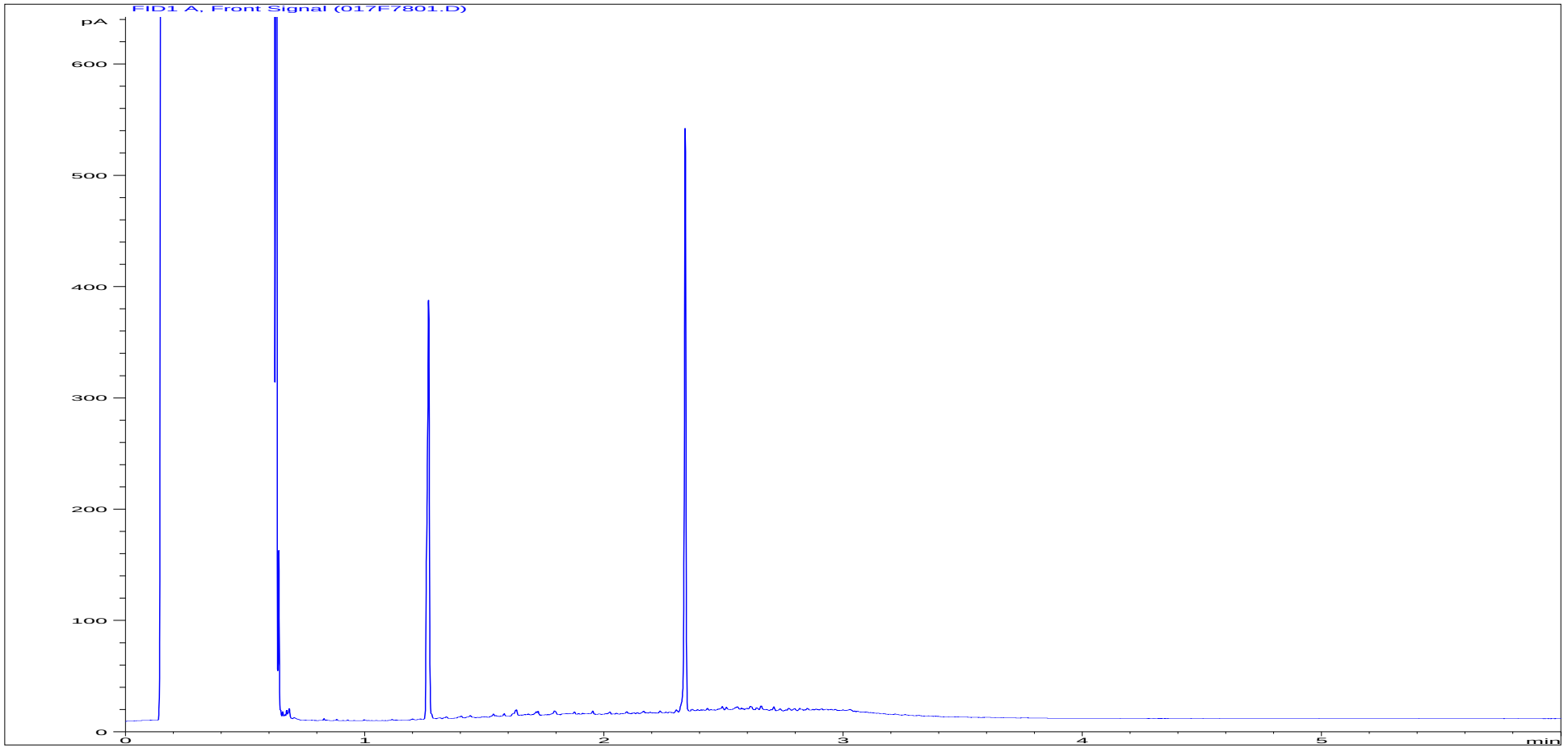
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1116718ARO	**Job Number:**	S11_3618M
Multiplier:	12.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306452 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 00:29:58		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\065B7801.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

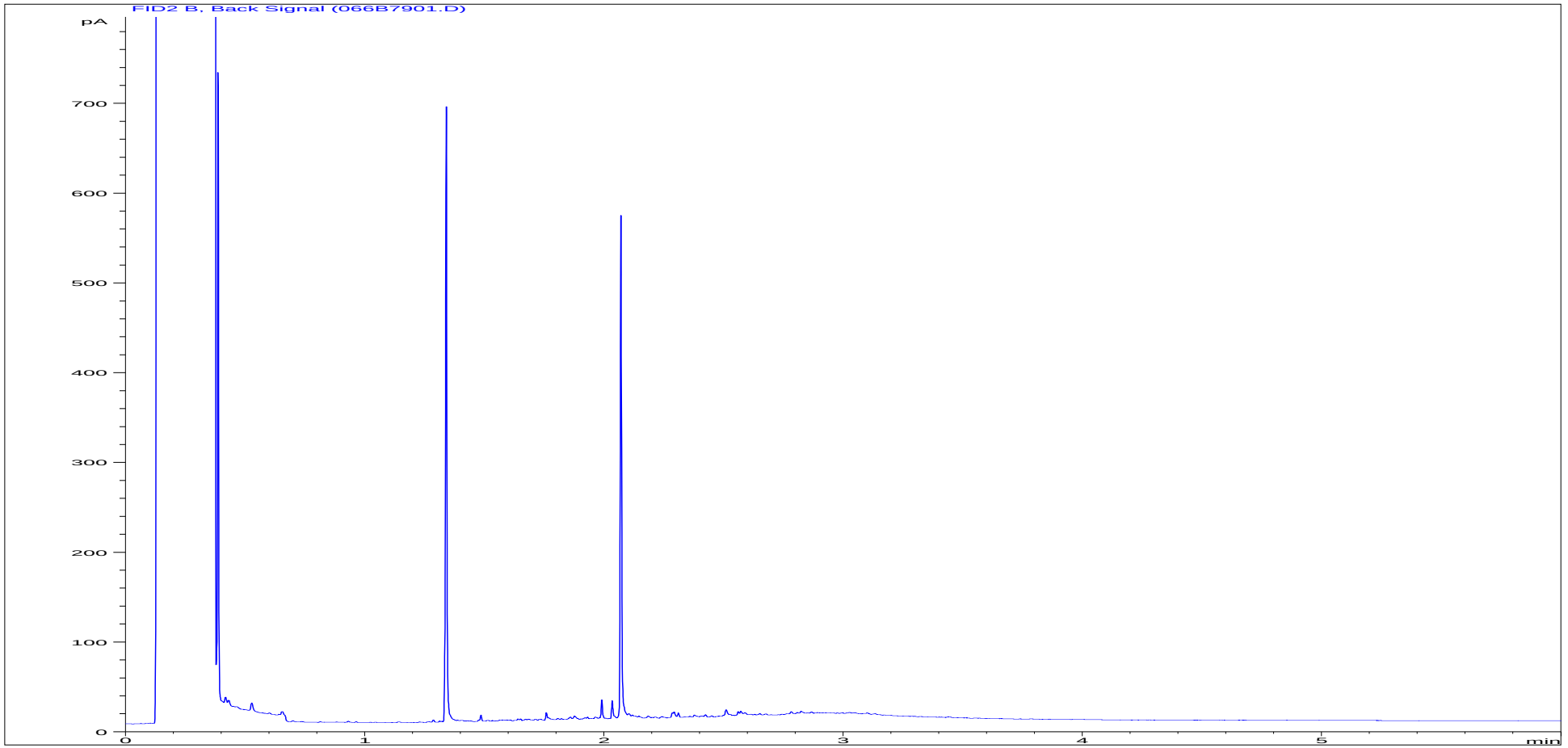
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1116719ALI	**Job Number:**	S11_3618M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306453 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 00:29:58		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\017F7801.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

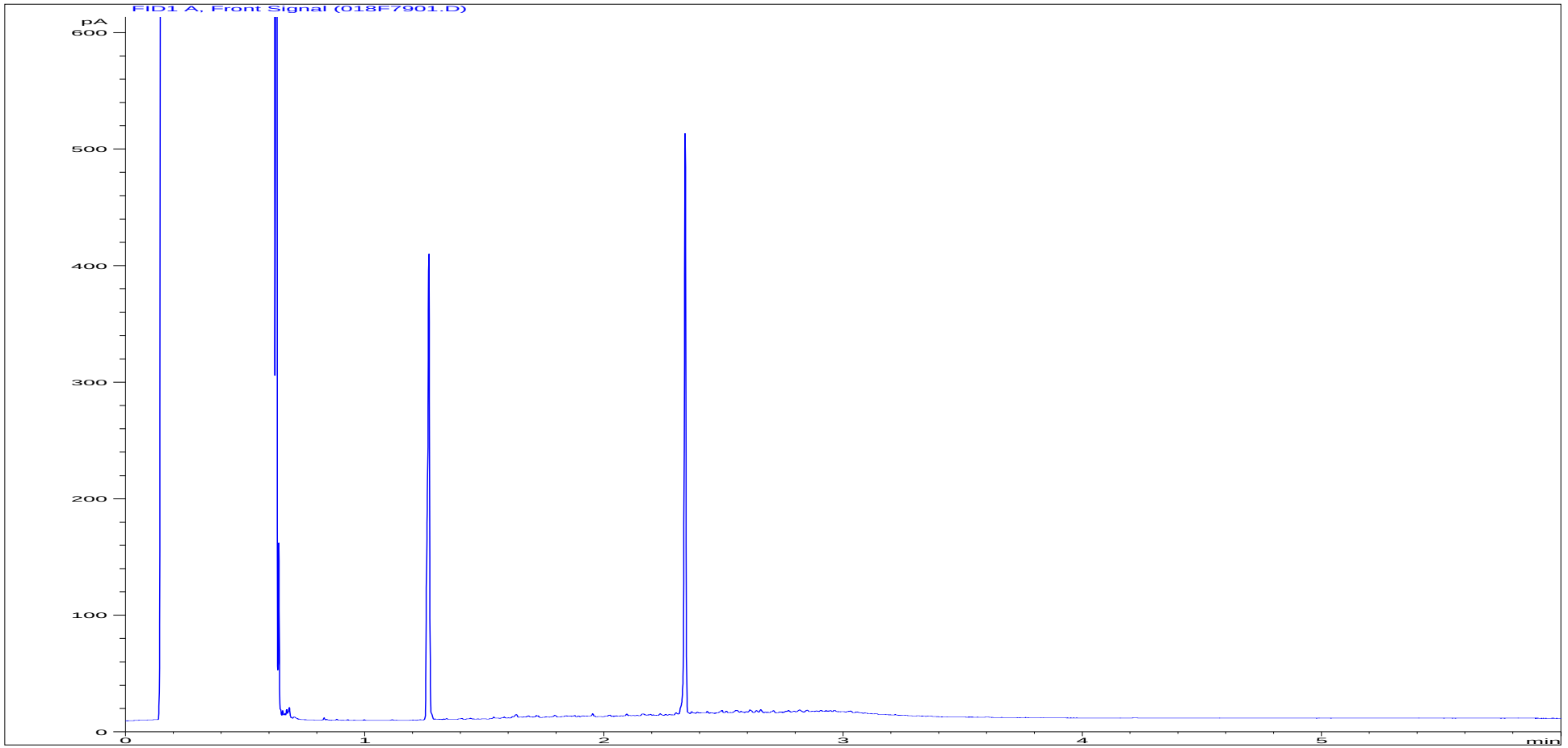
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1116719ARO	**Job Number:**	S11_3618M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306453 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 00:41:53		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\066B7901.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

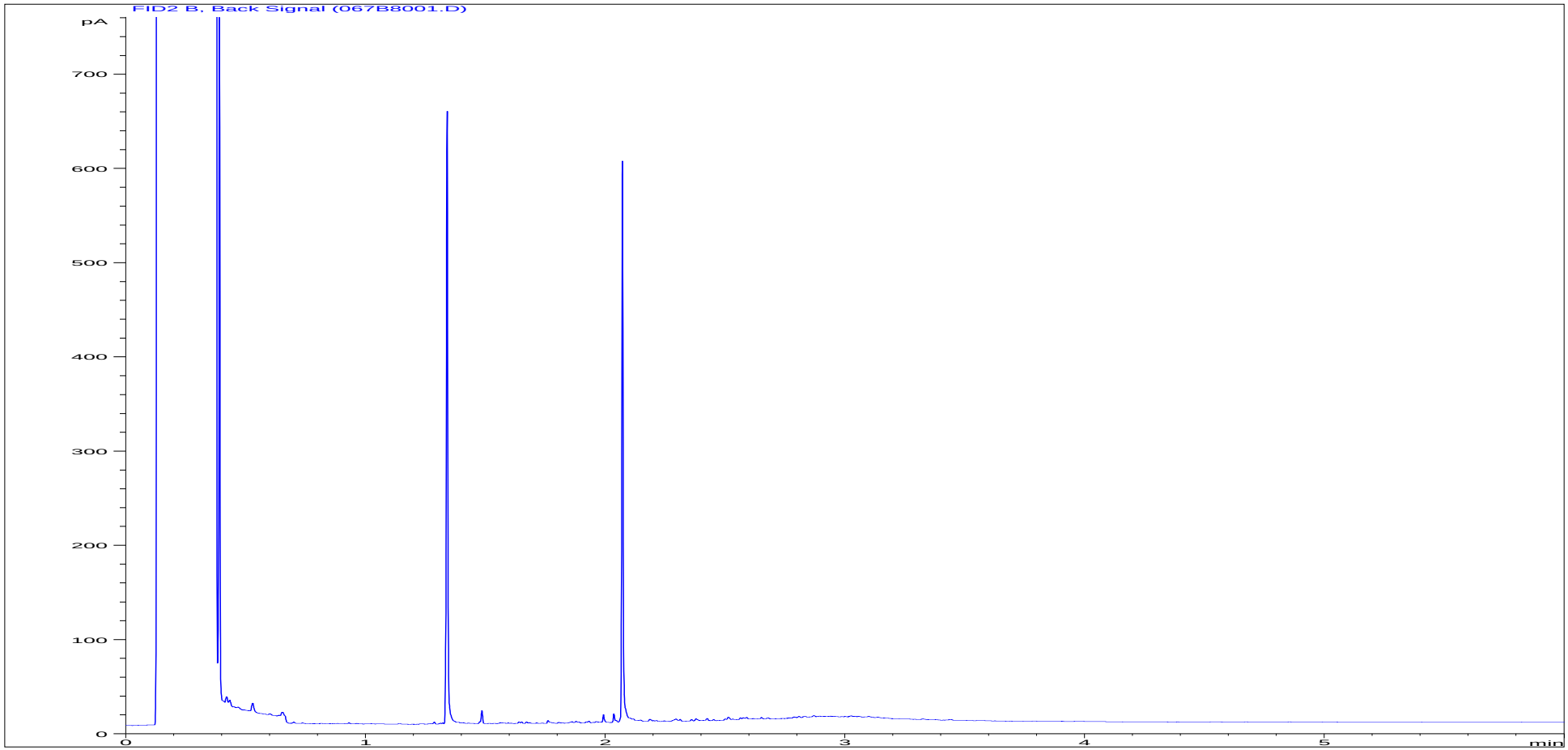
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1116720ALI	**Job Number:**	S11_3618M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306454 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 00:41:53		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\018F7901.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

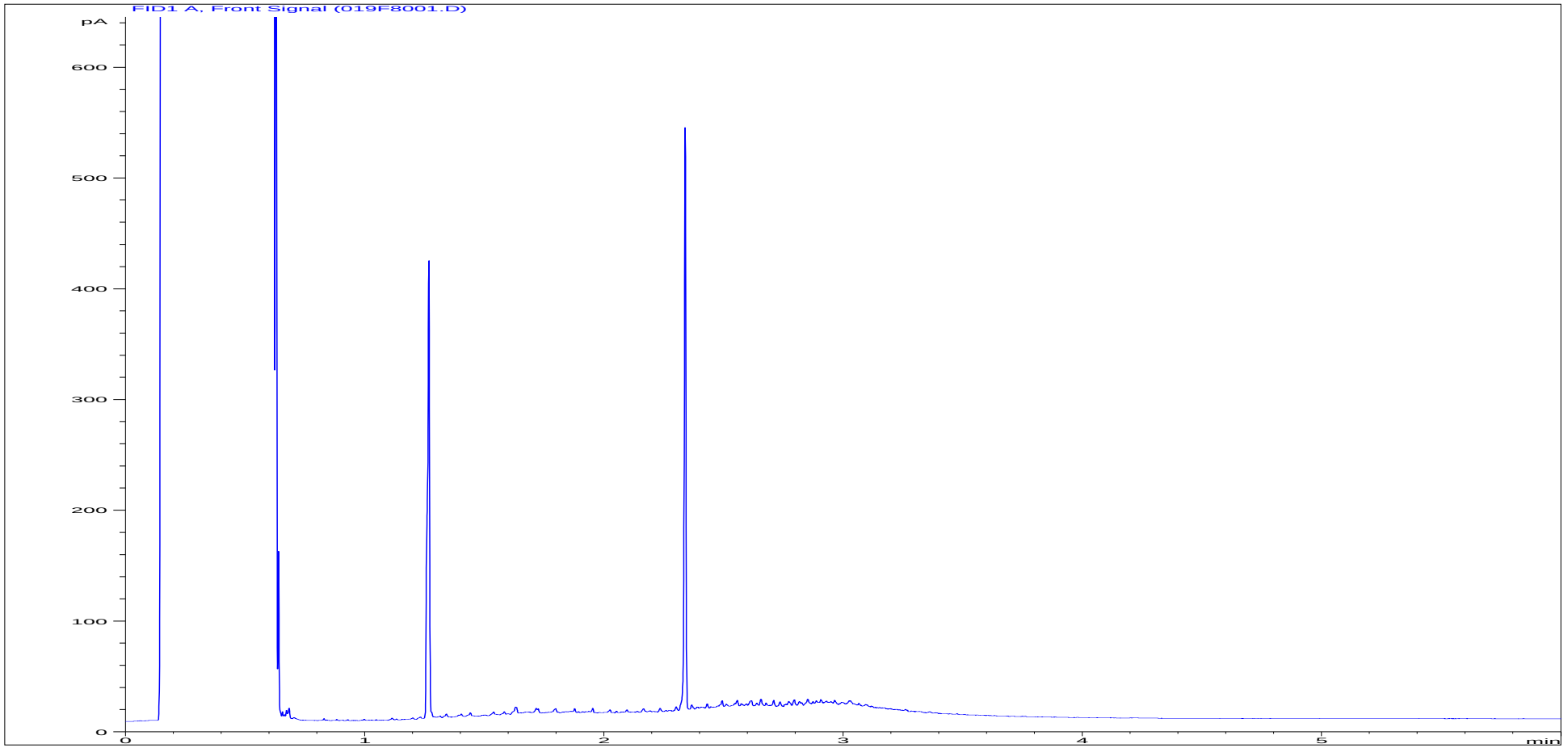
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1116720ARO	**Job Number:**	S11_3618M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306454 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 00:53:47		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\067B8001.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

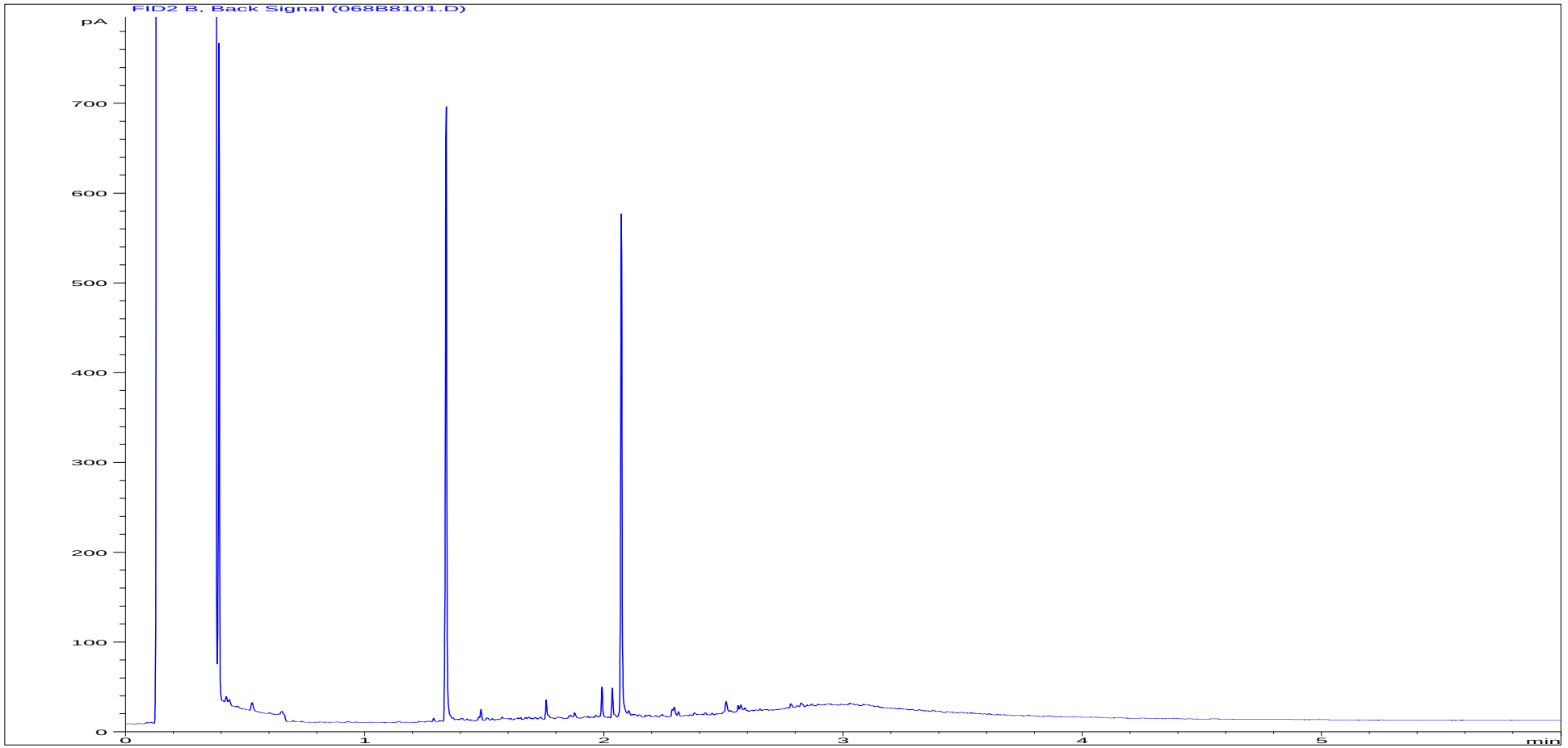
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1116721ALI	**Job Number:**	S11_3618M
Multiplier:	15.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306455 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 00:53:47		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\019F8001.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

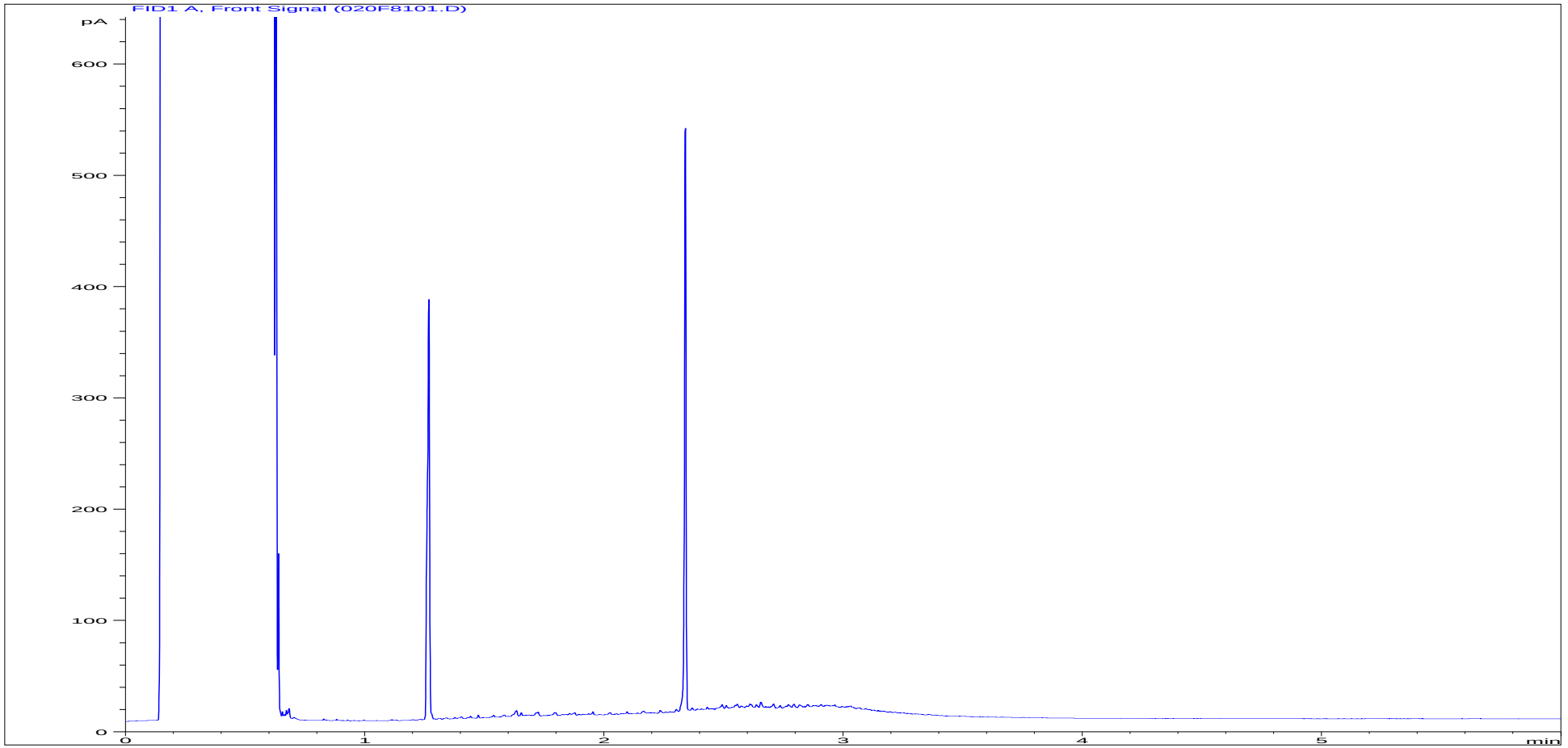
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1116721ARO	**Job Number:**	S11_3618M
Multiplier:	12.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306455 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 01:05:42		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\068B8101.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

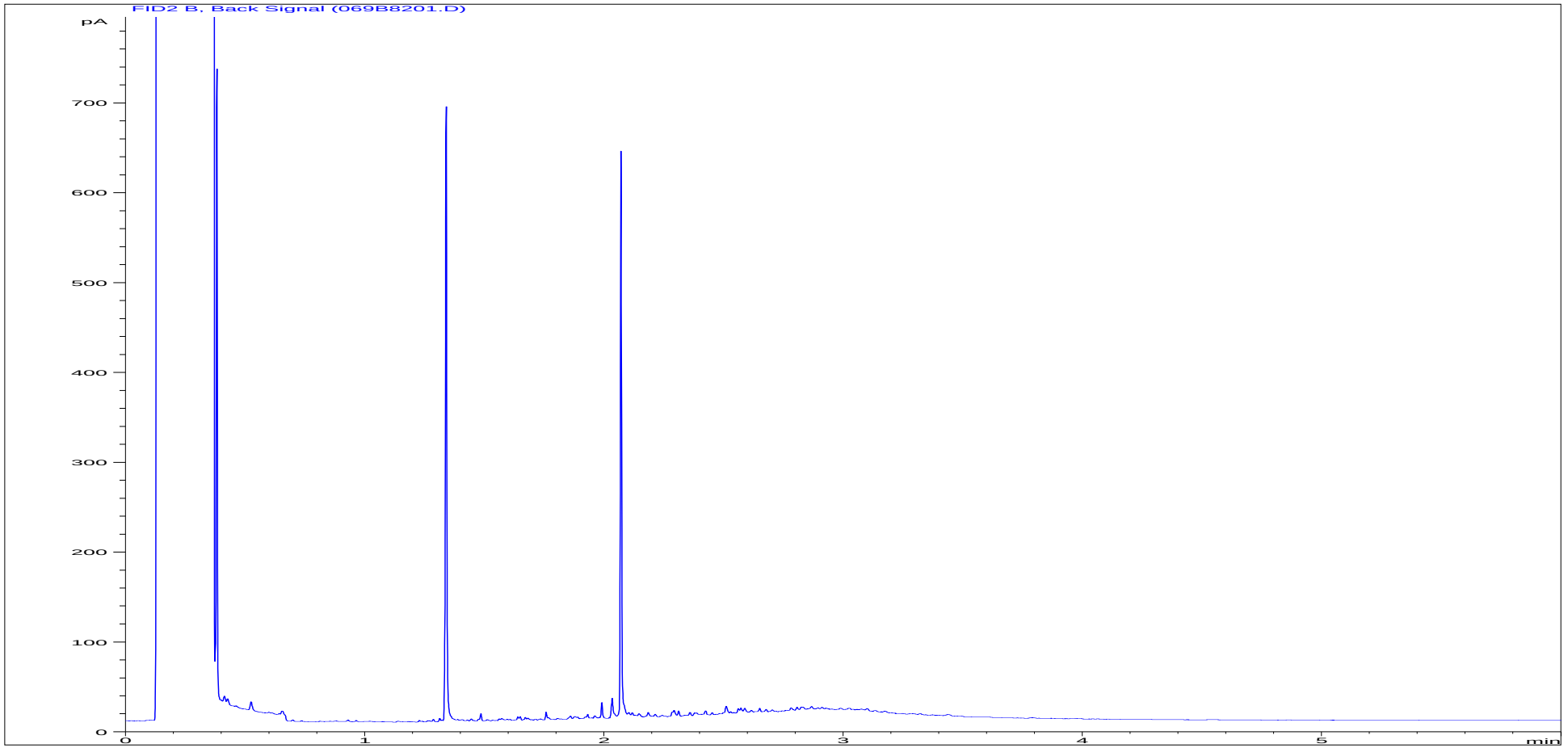
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1116722ALI	**Job Number:**	S11_3618M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306456 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 01:05:42		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\020F8101.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

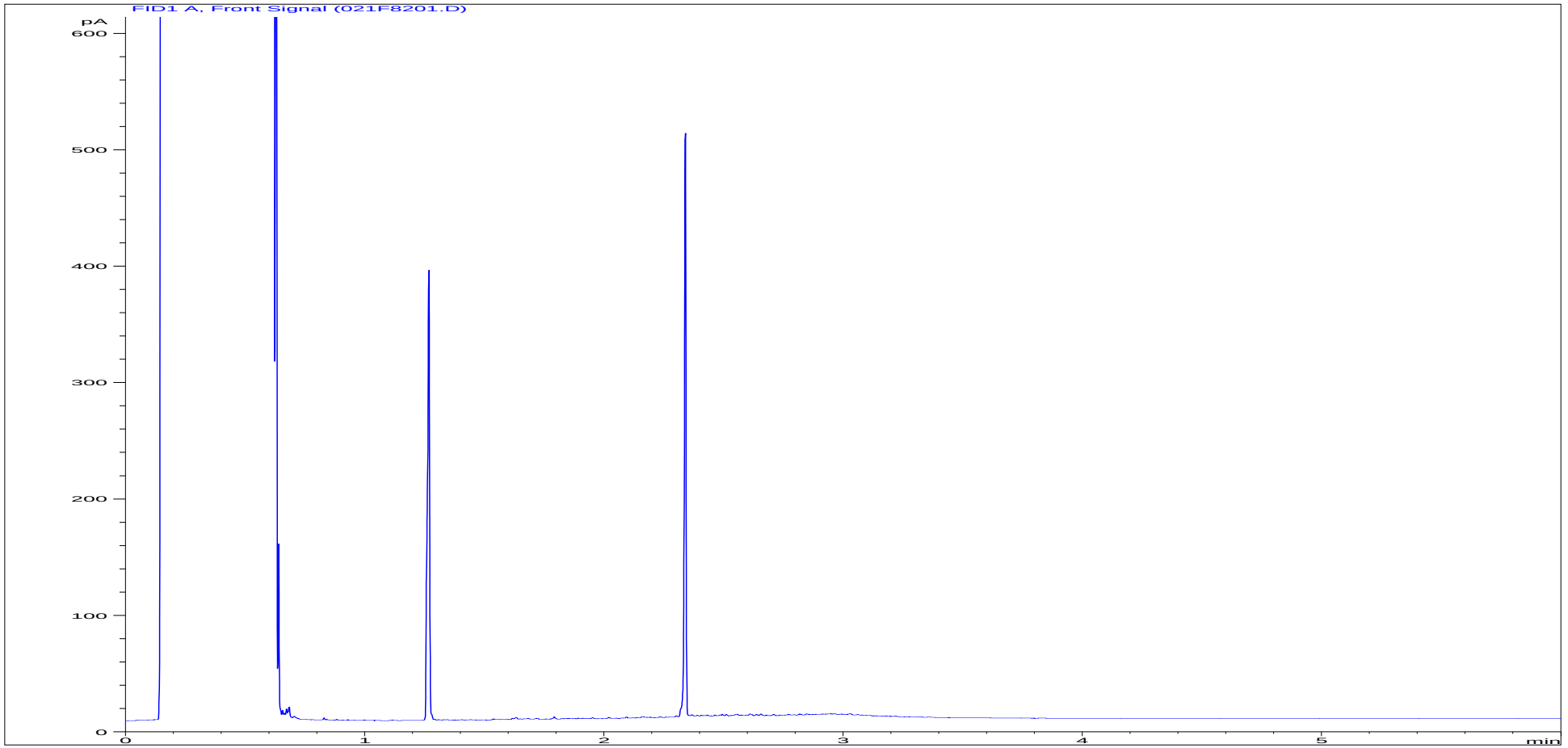
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1116722ARO	**Job Number:**	S11_3618M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306456 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 01:17:40		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\069B8201.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

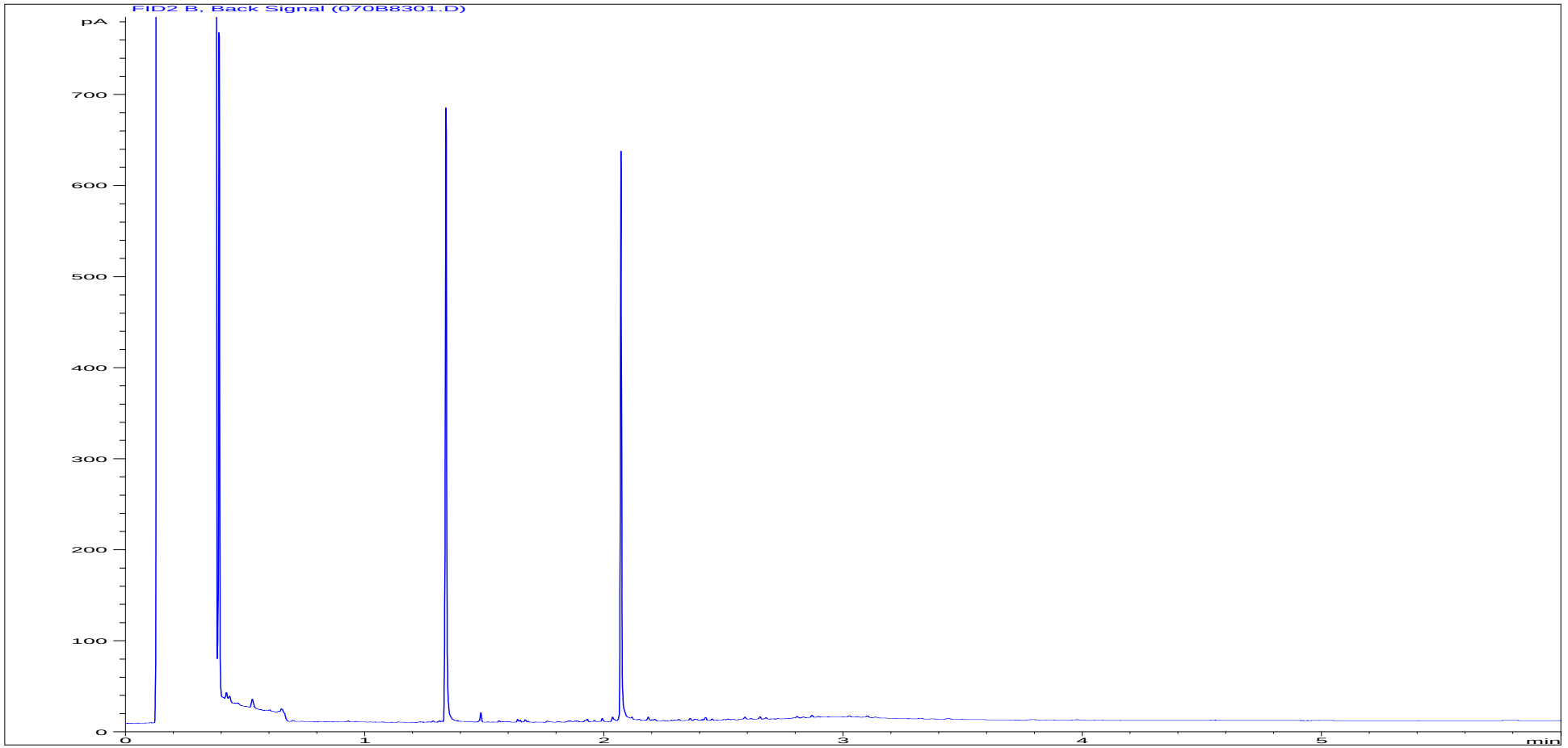
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1116723ALI	**Job Number:**	S11_3618M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306457 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 01:17:40		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\021F8201.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1116723ARO	**Job Number:**	S11_3618M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306457 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 01:29:32		
Datafile:	D:\TES\DATA\Y2011\0512TPH_GC14\051211 2011-05-12 09-06-16\070B8301.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306448 ESC 1 0.20
LIMS ID Number: CL1116714
Job Number: S11_3618M

Directory/Quant file: 0507VOC.MS3\ Initial Calibration
Date Booked in: 28-Apr-11
Date Analysed: 07-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 17

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8 *	-	< 6	-	N
Chloromethane	74-87-3 *	-	< 6	-	N
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 29	-	N
Chloroethane	75-00-3	-	< 29	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5 *	-	< 6	-	N
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 29	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8 *	-	< 6	-	N
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 29	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 29	-	U
Hexachlorobutadiene	87-68-3 *	-	< 29	-	N
Naphthalene	91-20-3 *	-	< 29	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 29	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	85	D bromofluoromethane	79
1,4-Difluorobenzene	3.34	82	Toluene-d8	95
Chlorobenzene-d5	4.36	77	Bromofluorobenzene	90
1,4-Dichlorobenzene-d4	5.12	65		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306449 ESC 1 0.20
LIMS ID Number: CL1116715
Job Number: S11_3618M

Directory/Quant file: 0509VOC.MS3\ Initial Calibration
Date Booked in: 28-Apr-11
Date Analysed: 09-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 16

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8 *	-	< 6	-	N
Chloromethane	74-87-3 *	-	< 6	-	N
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 29	-	N
Chloroethane	75-00-3	-	< 29	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5 *	-	< 6	-	N
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 29	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	4.43	7	71	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8 *	-	< 6	-	N
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 29	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 29	-	U
Hexachlorobutadiene	87-68-3 *	-	< 29	-	N
Naphthalene	91-20-3 *	-	< 29	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 29	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	64	D bromofluoromethane	89
1,4-Difluorobenzene	3.34	66	Toluene-d8	109
Chlorobenzene-d5	4.36	70	Bromofluorobenzene	88
1,4-Dichlorobenzene-d4	5.12	55		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306450 ESC 1 0.20
LIMS ID Number: CL1116716
Job Number: S11_3618M

Directory/Quant file: 0509VOC.MS3\ Initial Calibration
Date Booked in: 28-Apr-11
Date Analysed: 09-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 17

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8 *	-	< 6	-	N
Chloromethane	74-87-3 *	-	< 6	-	N
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 29	-	N
Chloroethane	75-00-3	-	< 29	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5 *	-	< 6	-	N
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 29	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	4.43	7	74	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 29	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 29	-	U
Hexachlorobutadiene	87-68-3 *	-	< 29	-	N
Naphthalene	91-20-3 *	-	< 29	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 29	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	69	D bromofluoromethane	89
1,4-Difluorobenzene	3.34	66	Toluene-d8	110
Chlorobenzene-d5	4.36	71	Bromofluorobenzene	86
1,4-Dichlorobenzene-d4	5.12	53		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306451 ESC 1 0.20
LIMS ID Number: CL1116717
Job Number: S11_3618M

Directory/Quant file: 0509VOC.MS3\ Initial Calibration
Date Booked in: 28-Apr-11
Date Analysed: 09-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 18

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8 *	-	< 6	-	N
Chloromethane	74-87-3 *	-	< 6	-	N
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3	-	< 28	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5 *	-	< 6	-	N
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8 *	-	< 6	-	N
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	70	D bromofluoromethane	84
1,4-Difluorobenzene	3.34	77	Toluene-d8	97
Chlorobenzene-d5	4.36	74	Bromofluorobenzene	89
1,4-Dichlorobenzene-d4	5.12	60		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306452 ESC 1 0.20
LIMS ID Number: CL1116718
Job Number: S11_3618M

Directory/Quant file: 0509VOC.MS3\ Initial Calibration
Date Booked in: 28-Apr-11
Date Analysed: 09-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 19

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8 *	-	< 6	-	N
Chloromethane	74-87-3 *	-	< 6	-	N
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 29	-	N
Chloroethane	75-00-3	-	< 29	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5 *	-	< 6	-	N
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 29	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8 *	-	< 6	-	N
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 29	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 29	-	U
Hexachlorobutadiene	87-68-3 *	-	< 29	-	N
Naphthalene	91-20-3 *	-	< 29	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 29	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	78	D bromofluoromethane	74
1,4-Difluorobenzene	3.34	77	Toluene-d8	92
Chlorobenzene-d5	4.36	70	Bromofluorobenzene	86
1,4-Dichlorobenzene-d4	5.12	51		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306453 ESC 1 0.20
LIMS ID Number: CL1116719
Job Number: S11_3618M

Directory/Quant file: 0509VOC.MS3\ Initial Calibration
Date Booked in: 28-Apr-11
Date Analysed: 09-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 20

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8 *	-	< 6	-	N
Chloromethane	74-87-3 *	-	< 6	-	N
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 29	-	N
Chloroethane	75-00-3	-	< 29	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5 *	-	< 6	-	N
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 29	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8 *	-	< 6	-	N
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 29	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 29	-	U
Hexachlorobutadiene	87-68-3 *	-	< 29	-	N
Naphthalene	91-20-3 *	-	< 29	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 29	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	68	D bromofluoromethane	87
1,4-Difluorobenzene	3.34	64	Toluene-d8	93
Chlorobenzene-d5	4.36	59	Bromofluorobenzene	86
1,4-Dichlorobenzene-d4	5.12	44		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306454 ESC 1 0.20
LIMS ID Number: CL1116720
Job Number: S11_3618M

Directory/Quant file: 0509VOC.MS3\ Initial Calibration
Date Booked in: 28-Apr-11
Date Analysed: 09-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 21

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8 *	-	< 6	-	N
Chloromethane	74-87-3 *	-	< 6	-	N
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 30	-	N
Chloroethane	75-00-3	-	< 30	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5 *	-	< 6	-	N
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 30	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8 *	-	< 6	-	N
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 30	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 30	-	U
Hexachlorobutadiene	87-68-3 *	-	< 30	-	N
Naphthalene	91-20-3 *	-	< 30	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 30	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	78	D bromofluoromethane	93
1,4-Difluorobenzene	3.34	76	Toluene-d8	93
Chlorobenzene-d5	4.36	70	Bromofluorobenzene	87
1,4-Dichlorobenzene-d4	5.12	54		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306455 ESC 1 0.20
LIMS ID Number: CL1116721
Job Number: S11_3618M

Directory/Quant file: 0509VOC.MS3\ Initial Calibration
Date Booked in: 28-Apr-11
Date Analysed: 09-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 22

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8 *	-	< 6	-	N
Chloromethane	74-87-3 *	-	< 6	-	N
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 30	-	N
Chloroethane	75-00-3	-	< 30	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5 *	-	< 6	-	N
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 30	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8 *	-	< 6	-	N
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 30	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 30	-	U
Hexachlorobutadiene	87-68-3 *	-	< 30	-	N
Naphthalene	91-20-3 *	-	< 30	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 30	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	75	D bromofluoromethane	68
1,4-Difluorobenzene	3.34	73	Toluene-d8	93
Chlorobenzene-d5	4.36	67	Bromofluorobenzene	86
1,4-Dichlorobenzene-d4	5.12	50		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306456 ESC 1 0.20
LIMS ID Number: CL1116722
Job Number: S11_3618M

Directory/Quant file: 0509VOC.MS3\ Initial Calibration
Date Booked in: 28-Apr-11
Date Analysed: 09-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 23

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8 *	-	< 6	-	N
Chloromethane	74-87-3 *	-	< 6	-	N
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3	-	< 28	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5 *	-	< 6	-	N
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8 *	-	< 6	-	N
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	66	D bromofluoromethane	64
1,4-Difluorobenzene	3.34	65	Toluene-d8	108
Chlorobenzene-d5	4.36	70	Bromofluorobenzene	87
1,4-Dichlorobenzene-d4	5.12	54		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306457 ESC 1 0.20
LIMS ID Number: CL1116723
Job Number: S11_3618M

Directory/Quant file: 0507VOC.MS3\ Initial Calibration
Date Booked in: 28-Apr-11
Date Analysed: 07-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 26

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8 *	-	< 6	-	N
Chloromethane	74-87-3 *	-	< 6	-	N
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 30	-	N
Chloroethane	75-00-3	-	< 30	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5 *	-	< 6	-	N
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 30	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8 *	-	< 6	-	N
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 30	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 30	-	U
Hexachlorobutadiene	87-68-3 *	-	< 30	-	N
Naphthalene	91-20-3 *	-	< 30	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 30	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	72	D bromofluoromethane	83
1,4-Difluorobenzene	3.34	73	Toluene-d8	94
Chlorobenzene-d5	4.35	66	Bromofluorobenzene	84
1,4-Dichlorobenzene-d4	5.12	50		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

SL 3618

Marchwood Scientific Services

Unit 4G Marchwood
Industrial Park,
Marchwood,
Southampton, Hants,
SO40 4PB

Tel: 02380-669126
Fax: 02380-669127

Name of Client : Scientifics
Address : PO BOX 100, Burton-on-Trent, DE15 0XD

Test Certificate No: 111-2787

ANALYSIS OF PCDDs and PCDFs

Job Reference: 0
Sample Identifier : CL/1116714
Sample No: 111-2787
Order No: 36790
Sample Condition : normal
Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 170511

Date of Receipt : 10/05/11
Date of Analysis : 18/05/11
Date of Report : 19/05/11

Sample Condition : normal

Test Method : 1122
Blank : 60511
Sample Size : 2.0

expressed as ng / g

Congener	Conc	TEFs	TEQ1	TEQ2	DL	Rec %	0
2378-TCDF	0.0036	0.100	0.0004	0.0004	0.0008	91	
12378-PCDF	0.0042	0.050	0.0002	0.0002	0.0008	109	#
23478-PCDF	0.0067	0.500	0.0034	0.0034	0.0009	92	
123478-HxCDF	0.0085	0.100	0.0008	0.0008	0.0012	98	
123678-HxCDF	0.0082	0.100	0.0008	0.0008	0.0011	107	
234678-HxCDF	0.0104	0.100	0.0010	0.0010	0.0011	101	
123789-HxCDF	0.0035	0.100	0.0003	0.0003	0.0014	94	#
1234678-HpCDF	0.0720	0.010	0.0007	0.0007	0.0011	82	
1234789-HpCDF	0.0062	0.010	0.0001	0.0001	0.0016	128	#
OCDF	0.0532	0.001	0.0001	0.0001	0.0030	81	
2378-TCDD	*	1.000	0.0007	0.0000	0.0007	103	
12378-PCDD	0.0030	0.500	0.0015	0.0015	0.0011	96	
123478-HxCDD	0.0035	0.100	0.0004	0.0004	0.0009	108	
123678-HxCDD	0.0090	0.100	0.0009	0.0009	0.0012	96	
123789-HxCDD	0.0046	0.100	0.0005	0.0005	0.0009		
1234678-HpCDD	0.0866	0.010	0.0009	0.0009	0.0025	87	
OCDD	0.4757	0.001	0.0005	0.0005	0.0030	83	
TEQ (Nato)			**0.0131**	**0.0124**			**0**

*	Isomer Not detected
TEQ	Toxic Equivalent Value
TEF	Toxic Equivalent Factor
Conc	Concentration
DL	Detection Value

TEQ[1]	Concentration of Non Detected Congeners at Detection Limit
TEQ[2]	Concentration of Non Detected Congeners at Zero

UKAS TESTING
1668

Reported by : [redacted]
Position :

Signature :

Marchwood Scientific Services

Unit 4G Marchwood
Industrial Park,
Marchwood,
Southampton, Hants,
SO40 4PB

Tel: 02380-669126
Fax: 02380-669127

Name of Client : Scientifics
Address : PO BOX 100, Burton-on-Trent, DE15 0XD

Test Certificate No: 111-2788

ANALYSIS OF PCDDs and PCDFs

Job Reference: 0
Sample Identifier : CL/1116715
Sample No: 111-2788
Order No: 36790
Sample Condition : normal
Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 170511

Date of Receipt : 10/05/11
Date of Analysis : 18/05/11
Date of Report : 19/05/11

Sample Condition : normal

Test Method : 1122
Blank : 60511
Sample Size : 2.0

expressed as ng / g

Congener	Conc	TEFs	TEQ1	TEQ2	DL	Rec %	0
2378-TCDF	0.0034	0.100	0.0003	0.0003	0.0011	81	
12378-PCDF	0.0049	0.050	0.0002	0.0002	0.0008	116	#
23478-PCDF	0.0070	0.500	0.0035	0.0035	0.0008	81	
123478-HxCDF	0.0096	0.100	0.0010	0.0010	0.0014	86	
123678-HxCDF	0.0093	0.100	0.0009	0.0009	0.0013	93	
234678-HxCDF	0.0118	0.100	0.0012	0.0012	0.0014	87	
123789-HxCDF	*	0.100	0.0002	0.0000	0.0018	100	#
1234678-HpCDF	0.0649	0.010	0.0006	0.0006	0.0013	78	
1234789-HpCDF	0.0065	0.010	0.0001	0.0001	0.0019	133	#
OCDF	0.0543	0.001	0.0001	0.0001	0.0029	74	
2378-TCDD	*	1.000	0.0009	0.0000	0.0009	92	
12378-PCDD	0.0035	0.500	0.0017	0.0017	0.0010	87	
123478-HxCDD	0.0026	0.100	0.0003	0.0003	0.0012	95	
123678-HxCDD	0.0095	0.100	0.0009	0.0009	0.0016	84	
123789-HxCDD	0.0047	0.100	0.0005	0.0005	0.0012		
1234678-HpCDD	0.0699	0.010	0.0007	0.0007	0.0023	79	
OCDD	0.3192	0.001	0.0003	0.0003	0.0031	79	
TEQ (Nato)			**0.0134**	**0.0123**			**0**

*	Isomer Not detected
TEQ	Toxic Equivalent Value
TEF	Toxic Equivalent Factor
Conc	Concentration
DL	Detection Value

TEQ[1]	Concentration of Non Detected Congeners at Detection Limit
TEQ[2]	Concentration of Non Detected Congeners at Zero

UKAS TESTING
1668

Reported by : [redacted]
Position :

Signature :

MSS
Marchwood Scientific Services

Unit 4G Marchwood
Industrial Park,
Marchwood,
Southampton, Hants,
SO40 4PB

Tel: 02380-669126
Fax: 02380-669127

Name of Client : Scientifics
Address : PO BOX 100, Burton-on-Trent, DE15 0XD

Test Certificate No: 111-2789

ANALYSIS OF PCDDs and PCDFs

Job Reference: 0
Sample Identifier : CL/1116716
Sample No: 111-2789
Order No: 36790
Sample Condition : normal
Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 170511

Date of Receipt : 10/05/11
Date of Analysis : 18/05/11
Date of Report : 19/05/11

Sample Condition : normal

Test Method : 1122
Blank : 60511
Sample Size : 2.0

expressed as ng / g

Congener	Conc	TEFs	TEQ1	TEQ2	DL	Rec %	0
2378-TCDF	0.0019	0.100	0.0002	0.0002	0.0011	81	
12378-PCDF	0.0072	0.050	0.0004	0.0004	0.0029	318	#
23478-PCDF	*	0.500	0.0015	0.0000	0.0030	28	
123478-HxCDF	0.0045	0.100	0.0005	0.0005	0.0014	85	
123678-HxCDF	0.0027	0.100	0.0003	0.0003	0.0014	91	
234678-HxCDF	0.0026	0.100	0.0003	0.0003	0.0014	86	
123789-HxCDF	*	0.100	0.0002	0.0000	0.0019	92	#
1234678-HpCDF	0.0272	0.010	0.0003	0.0003	0.0012	76	
1234789-HpCDF	0.0031	0.010	0.0000	0.0000	0.0018	127	#
OCDF	0.0181	0.001	0.0000	0.0000	0.0034	71	
2378-TCDD	*	1.000	0.0007	0.0000	0.0007	93	
12378-PCDD	*	0.500	0.0014	0.0000	0.0029	79	
123478-HxCDD	0.0013	0.100	0.0001	0.0001	0.0012	98	
123678-HxCDD	0.0046	0.100	0.0005	0.0005	0.0017	83	
123789-HxCDD	0.0028	0.100	0.0003	0.0003	0.0012		
1234678-HpCDD	0.0454	0.010	0.0005	0.0005	0.0017	81	
OCDD	0.1973	0.001	0.0002	0.0002	0.0033	80	
TEQ (Nato)			**0.0072**	**0.0034**			**0**

*	Isomer Not detected
TEQ	Toxic Equivalent Value
TEF	Toxic Equivalent Factor
Conc	Concentration
DL	Detection Value

TEQ[1]	Concentration of Non Detected Congeners at Detection Limit
TEQ[2]	Concentration of Non Detected Congeners at Zero

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1668

Reported by : [redacted]
Position :

Signature :

MSS
Marchwood Scientific Services

Unit 4G Marchwood
Industrial Park,
Marchwood,
Southampton, Hants,
SO40 4PB

Tel: 02380-669126
Fax: 02380-669127

Name of Client : Scientifics
Address : PO BOX 100, Burton-on-Trent, DE15 0XD

Test Certificate No: 111-2790

ANALYSIS OF PCDDs and PCDFs

Job Reference: 0
Sample Identifier : CL/1116717
Sample No: 111-2790
Order No: 36790
Sample Condition : normal
Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 170511

Date of Receipt : 10/05/11
Date of Analysis : 18/05/11
Date of Report : 19/05/11

Sample Condition : normal

Test Method : 1122
Blank : 60511
Sample Size : 2.0

expressed as ng / g

Congener	Conc	TEFs	TEQ1	TEQ2	DL	Rec %	0
2378-TCDF	0.0034	0.100	0.0003	0.0003	0.0009	62	
12378-PCDF	*	0.050	0.0000	0.0000	0.0008	117	#
23478-PCDF	0.0030	0.500	0.0015	0.0015	0.0008	59	
123478-HxCDF	0.0040	0.100	0.0004	0.0004	0.0013	67	
123678-HxCDF	0.0041	0.100	0.0004	0.0004	0.0012	71	
234678-HxCDF	0.0051	0.100	0.0005	0.0005	0.0013	64	
123789-HxCDF	*	0.100	0.0002	0.0000	0.0017	100	#
1234678-HpCDF	0.0363	0.010	0.0004	0.0004	0.0015	57	
1234789-HpCDF	0.0040	0.010	0.0000	0.0000	0.0022	131	#
OCDF	0.0353	0.001	0.0000	0.0000	0.0040	55	
2378-TCDD	*	1.000	0.0009	0.0000	0.0009	71	
12378-PCDD	0.0029	0.500	0.0014	0.0014	0.0011	60	
123478-HxCDD	0.0018	0.100	0.0002	0.0002	0.0014	72	
123678-HxCDD	0.0059	0.100	0.0006	0.0006	0.0020	62	
123789-HxCDD	0.0022	0.100	0.0002	0.0002	0.0015		
1234678-HpCDD	0.0513	0.010	0.0005	0.0005	0.0019	59	
OCDD	0.2409	0.001	0.0002	0.0002	0.0063	60	
TEQ (Nato)			**0.0079**	**0.0067**			**0**

*	Isomer Not detected
TEQ	Toxic Equivalent Value
TEF	Toxic Equivalent Factor
Conc	Concentration
DL	Detection Value
TEQ^1	Concentration of Non Detected Congeners at Detection Limit
TEQ^2	Concentration of Non Detected Congeners at Zero

UKAS
1668

Reported by : [redacted]
Position :

Signature :

MSS
Marchwood Scientific Services

Unit 4G Marchwood
Industrial Park,
Marchwood,
Southampton, Hants,
SO40 4PB

Tel: 02380-669126
Fax: 02380-669127

Name of Client : Scientifics
Address : PO BOX 100, Burton-on-Trent, DE15 0XD

Test Certificate No: 111-2791

ANALYSIS OF PCDDs and PCDFs

Job Reference: 0
Sample Identifier : CL/1116718
Sample No: 111-2791
Order No: 36790
Sample Condition : normal
Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 170511

Date of Receipt : 10/05/11
Date of Analysis : 18/05/11
Date of Report : 19/05/11

Sample Condition : normal

Test Method : 1122
Blank : 60511
Sample Size : 2.0

expressed as ng / g

Congener	Conc	TEFs	TEQ1	TEQ2	DL	Rec %	0
2378-TCDF	*	0.100	0.0001	0.0000	0.0009	83	
12378-PCDF	0.0021	0.050	0.0001	0.0001	0.0006	106	#
23478-PCDF	0.0023	0.500	0.0011	0.0011	0.0006	82	
123478-HxCDF	0.0036	0.100	0.0004	0.0004	0.0011	90	
123678-HxCDF	0.0028	0.100	0.0003	0.0003	0.0010	97	
234678-HxCDF	0.0031	0.100	0.0003	0.0003	0.0011	91	
123789-HxCDF	*	0.100	0.0001	0.0000	0.0015	93	#
1234678-HpCDF	0.0230	0.010	0.0002	0.0002	0.0008	87	
1234789-HpCDF	*	0.010	0.0000	0.0000	0.0011	129	#
OCDF	0.0123	0.001	0.0000	0.0000	0.0025	93	
2378-TCDD	*	1.000	0.0007	0.0000	0.0007	94	
12378-PCDD	*	0.500	0.0005	0.0000	0.0009	84	
123478-HxCDD	0.0018	0.100	0.0002	0.0002	0.0010	102	
123678-HxCDD	0.0048	0.100	0.0005	0.0005	0.0013	89	
123789-HxCDD	0.0025	0.100	0.0002	0.0002	0.0009		
1234678-HpCDD	0.0364	0.010	0.0004	0.0004	0.0014	91	
OCDD	0.2112	0.001	0.0002	0.0002	0.0032	96	
TEQ (Nato)			**0.0053**	**0.0039**			**0**

*	Isomer Not detected
TEQ	Toxic Equivalent Value
TEF	Toxic Equivalent Factor
Conc	Concentration
DL	Detection Value

TEQ^1	Concentration of Non Detected Congeners at Detection Limit
TEQ^2	Concentration of Non Detected Congeners at Zero

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Reported by : [redacted]
Position :

Signature :

MSS
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Industrial Park,
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SO40 4PB

Tel: 02380-669126
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Name of Client : Scientifics
Address : PO BOX 100, Burton-on-Trent, DE15 0XD

Test Certificate No: 111-2792

ANALYSIS OF PCDDs and PCDFs

Job Reference: 0
Sample Identifier : CL/1116719
Sample No: 111-2792
Order No: 36790
Sample Condition : normal
Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 170511

Date of Receipt : 10/05/11
Date of Analysis : 18/05/11
Date of Report : 19/05/11
Sample Condition : normal
Test Method : 1122
Blank : 60511
Sample Size : 2.0

expressed as ng / g

Congener	Conc	TEFs	TEQ1	TEQ2	DL	Rec %	0
2378-TCDF	0.0022	0.100	0.0002	0.0002	0.0005	90	
12378-PCDF	0.0031	0.050	0.0002	0.0002	0.0004	103	#
23478-PCDF	0.0034	0.500	0.0017	0.0017	0.0005	96	
123478-HxCDF	0.0047	0.100	0.0005	0.0005	0.0009	96	
123678-HxCDF	0.0044	0.100	0.0004	0.0004	0.0008	108	
234678-HxCDF	0.0043	0.100	0.0004	0.0004	0.0009	93	
123789-HxCDF	*	0.100	0.0001	0.0000	0.0012	92	#
1234678-HpCDF	0.0326	0.010	0.0003	0.0003	0.0006	92	
1234789-HpCDF	*	0.010	0.0000	0.0000	0.0009	109	#
OCDF	0.0170	0.001	0.0000	0.0000	0.0021	86	
2378-TCDD	*	1.000	0.0009	0.0000	0.0009	104	
12378-PCDD	0.0043	0.500	0.0022	0.0022	0.0011	96	
123478-HxCDD	0.0049	0.100	0.0005	0.0005	0.0008	106	
123678-HxCDD	0.0157	0.100	0.0016	0.0016	0.0011	96	
123789-HxCDD	0.0053	0.100	0.0005	0.0005	0.0008		
1234678-HpCDD	0.0566	0.010	0.0006	0.0006	0.0013	93	
OCDD	0.1736	0.001	0.0002	0.0002	0.0022	99	
TEQ (Nato)			**0.0103**	**0.0093**			**0**

*	Isomer Not detected
TEQ	Toxic Equivalent Value
TEF	Toxic Equivalent Factor
Conc	Concentration
DL	Detection Value

TEQ^1	Concentration of Non Detected Congeners at Detection Limit
TEQ^2	Concentration of Non Detected Congeners at Zero

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Reported by : [redacted]
Position :

Signature :

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SO40 4PB

Tel: 02380-669126
Fax: 02380-669127

Name of Client : Scientifics
Address : PO BOX 100, Burton-on-Trent, DE15 0XD

Test Certificate No: 111-2793

ANALYSIS OF PCDDs and PCDFs

Job Reference: 0
Sample Identifier : CL/1116720
Sample No: 111-2793
Order No: 36790
Sample Condition : normal
Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 170511

Date of Receipt : 10/05/11
Date of Analysis : 18/05/11
Date of Report : 19/05/11

Sample Condition : normal

Test Method : 1122
Blank : 60511
Sample Size : 2.0

expressed as ng / g

Congener	Conc	TEFs	TEQ1	TEQ2	DL	Rec %	0
2378-TCDF	0.0030	0.100	0.0003	0.0003	0.0007	82	
12378-PCDF	0.0035	0.050	0.0002	0.0002	0.0005	106	#
23478-PCDF	0.0055	0.500	0.0027	0.0027	0.0005	85	
123478-HxCDF	0.0074	0.100	0.0007	0.0007	0.0006	89	
123678-HxCDF	0.0064	0.100	0.0006	0.0006	0.0006	100	
234678-HxCDF	0.0066	0.100	0.0007	0.0007	0.0006	87	
123789-HxCDF	0.0033	0.100	0.0003	0.0003	0.0008	93	#
1234678-HpCDF	0.0454	0.010	0.0005	0.0005	0.0009	82	
1234789-HpCDF	0.0050	0.010	0.0000	0.0000	0.0013	122	#
OCDF	0.0412	0.001	0.0000	0.0000	0.0028	79	
2378-TCDD	*	1.000	0.0006	0.0000	0.0006	96	
12378-PCDD	0.0040	0.500	0.0020	0.0020	0.0006	85	
123478-HxCDD	0.0037	0.100	0.0004	0.0004	0.0012	98	
123678-HxCDD	0.0089	0.100	0.0009	0.0009	0.0014	88	
123789-HxCDD	0.0044	0.100	0.0004	0.0004	0.0011		
1234678-HpCDD	0.0446	0.010	0.0004	0.0004	0.0013	85	
OCDD	0.1815	0.001	0.0002	0.0002	0.0028	87	
TEQ (Nato)			**0.0110**	**0.0104**			**0**

*	Isomer Not detected
TEQ	Toxic Equivalent Value
TEF	Toxic Equivalent Factor
Conc	Concentration
DL	Detection Value

TEQ[1] Concentration of Non Detected Congeners at Detection Limit

TEQ[2] Concentration of Non Detected Congeners at Zero

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Reported by : [redacted]
Position :

Signature :

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SO40 4PB

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Fax: 02380-669127

Name of Client : Scientifics
Address : PO BOX 100, Burton-on-Trent, DE15 0XD

Test Certificate No: 111-2794

ANALYSIS OF PCDDs and PCDFs

Job Reference: 0
Sample Identifier : CL/1116721
Sample No: 111-2794
Order No: 36790
Sample Condition : normal
Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 170511

Date of Receipt : 10/05/11
Date of Analysis : 18/05/11
Date of Report : 19/05/11

Sample Condition : normal

Test Method : 1122
Blank : 60511
Sample Size : 2.0

expressed as ng / g

Congener	Conc	TEFs	TEQ1	TEQ2	DL	Rec %	0
2378-TCDF	0.0043	0.100	0.0004	0.0004	0.0005	83	
12378-PCDF	0.0037	0.050	0.0002	0.0002	0.0005	106	#
23478-PCDF	0.0050	0.500	0.0025	0.0025	0.0006	75	
123478-HxCDF	0.0049	0.100	0.0005	0.0005	0.0012	93	
123678-HxCDF	0.0040	0.100	0.0004	0.0004	0.0011	102	
234678-HxCDF	0.0074	0.100	0.0007	0.0007	0.0012	93	
123789-HxCDF	*	0.100	0.0002	0.0000	0.0015	94	#
1234678-HpCDF	0.0502	0.010	0.0005	0.0005	0.0010	80	
1234789-HpCDF	0.0037	0.010	0.0000	0.0000	0.0015	132	#
OCDF	0.0548	0.001	0.0001	0.0001	0.0026	93	
2378-TCDD	*	1.000	0.0007	0.0000	0.0007	93	
12378-PCDD	0.0027	0.500	0.0013	0.0013	0.0011	74	
123478-HxCDD	*	0.100	0.0002	0.0000	0.0015	100	
123678-HxCDD	0.0089	0.100	0.0009	0.0009	0.0020	89	
123789-HxCDD	0.0041	0.100	0.0004	0.0004	0.0015		
1234678-HpCDD	0.0639	0.010	0.0006	0.0006	0.0016	89	
OCDD	0.2512	0.001	0.0003	0.0003	0.0035	100	
TEQ (Nato)			**0.0098**	**0.0088**			**0**

*	Isomer Not detected
TEQ	Toxic Equivalent Value
TEF	Toxic Equivalent Factor
Conc	Concentration
DL	Detection Value

TEQ[1] Concentration of Non Detected Congeners at Detection Limit

TEQ[2] Concentration of Non Detected Congeners at Zero

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Reported by : [redacted]
Position :

Signature :

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Industrial Park,
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SO40 4PB

Tel: 02380-669126
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Name of Client : Scientifics
Address : PO BOX 100, Burton-on-Trent, DE15 0XD

Test Certificate No: 111-2795

ANALYSIS OF PCDDs and PCDFs

Job Reference: 0
Sample Identifier : CL/1116722
Sample No: 111-2795
Order No: 36790
Sample Condition : normal
Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 170511

Date of Receipt : 10/05/11
Date of Analysis : 18/05/11
Date of Report : 19/05/11

Sample Condition : normal

Test Method : 1122
Blank : 60511
Sample Size : 2.0

expressed as ng / g

Congener	Conc	TEFs	TEQ1	TEQ2	DL	Rec %	0
2378-TCDF	0.0039	0.100	0.0004	0.0004	0.0009	78	
12378-PCDF	0.0043	0.050	0.0002	0.0002	0.0009	104	#
23478-PCDF	0.0074	0.500	0.0037	0.0037	0.0009	71	
123478-HxCDF	0.0074	0.100	0.0007	0.0007	0.0013	88	
123678-HxCDF	0.0082	0.100	0.0008	0.0008	0.0012	98	
234678-HxCDF	0.0132	0.100	0.0013	0.0013	0.0012	89	
123789-HxCDF	*	0.100	0.0002	0.0000	0.0016	89	#
1234678-HpCDF	0.0701	0.010	0.0007	0.0007	0.0022	76	
1234789-HpCDF	0.0095	0.010	0.0001	0.0001	0.0033	125	#
OCDF	0.1071	0.001	0.0001	0.0001	0.0033	89	
2378-TCDD	*	1.000	0.0007	0.0000	0.0007	89	
12378-PCDD	0.0021	0.500	0.0011	0.0011	0.0009	70	
123478-HxCDD	*	0.100	0.0002	0.0000	0.0017	96	
123678-HxCDD	0.0084	0.100	0.0008	0.0008	0.0022	86	
123789-HxCDD	0.0043	0.100	0.0004	0.0004	0.0016		
1234678-HpCDD	0.0685	0.010	0.0007	0.0007	0.0031	82	
OCDD	0.3167	0.001	0.0003	0.0003	0.0051	97	
TEQ (Nato)			**0.0124**	**0.0114**			**0**

*	Isomer Not detected
TEQ	Toxic Equivalent Value
TEF	Toxic Equivalent Factor
Conc	Concentration
DL	Detection Value

TEQ^1 Concentration of Non Detected Congeners at Detection Limit

TEQ^2 Concentration of Non Detected Congeners at Zero

UKAS
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Reported by : [redacted]
Position :

Signature :

MSS
Marchwood Scientific Services

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Industrial Park,
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SO40 4PB

Tel: 02380-669126
Fax: 02380-669127

Name of Client : Scientifics
Address : PO BOX 100, Burton-on-Trent, DE15 0XD

Test Certificate No: 111-2796

ANALYSIS OF PCDDs and PCDFs

Job Reference: 0
Sample Identifier : CL/1116723
Sample No: 111-2796
Order No: 36790
Sample Condition : normal
Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 170511

Date of Receipt : 10/05/11
Date of Analysis : 18/05/11
Date of Report : 19/05/11

Sample Condition : normal

Test Method : 1122
Blank : 60511
Sample Size : 2.0

expressed as ng / g

Congener	Conc	TEFs	TEQ1	TEQ2	DL	Rec %	0
2378-TCDF	0.0020	0.100	0.0002	0.0002	0.0009	58	
12378-PCDF	0.0031	0.050	0.0002	0.0002	0.0011	112	#
23478-PCDF	0.0038	0.500	0.0019	0.0019	0.0011	51	
123478-HxCDF	0.0052	0.100	0.0005	0.0005	0.0014	64	
123678-HxCDF	0.0059	0.100	0.0006	0.0006	0.0013	69	
234678-HxCDF	0.0044	0.100	0.0004	0.0004	0.0014	65	
123789-HxCDF	*	0.100	0.0002	0.0000	0.0018	90	#
1234678-HpCDF	0.0316	0.010	0.0003	0.0003	0.0022	56	
1234789-HpCDF	*	0.010	0.0000	0.0000	0.0032	128	#
OCDF	0.0211	0.001	0.0000	0.0000	0.0046	58	
2378-TCDD	*	1.000	0.0007	0.0000	0.0007	67	
12378-PCDD	*	0.500	0.0005	0.0000	0.0010	52	
123478-HxCDD	0.0031	0.100	0.0003	0.0003	0.0014	71	
123678-HxCDD	0.0048	0.100	0.0005	0.0005	0.0019	61	
123789-HxCDD	0.0028	0.100	0.0003	0.0003	0.0014		
1234678-HpCDD	0.0513	0.010	0.0005	0.0005	0.0022	60	
OCDD	0.2406	0.001	0.0002	0.0002	0.0044	66	
TEQ (Nato)			**0.0072**	**0.0059**			**0**

*	Isomer Not detected
TEQ	Toxic Equivalent Value
TEF	Toxic Equivalent Factor
Conc	Concentration
DL	Detection Value

TEQ^1	Concentration of Non Detected Congeners at Detection Limit
TEQ^2	Concentration of Non Detected Congeners at Zero

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Reported by : [redacted]
Position :

Signature :

SOIL Analysis

ESG Environmental Chemistry
Analytical and Deviating Sample Overview

S113618

Customer Soil Mechanics
Site Jackson CE, Warm-Up Track, OP
Report No S113618

Consignment No 20426
Date Logged 28-Apr-2011

Report Due 18-May-2011

ID Number	Description	MethodID	CEN Leachate	CustServ	GROHSA	ICPMSS								MCertS	PAHMSUS	PHEHPLC	Sub030	TMSS	TPHUSSI	VOCSW8100
		Sampled	CEN Leac(PJC 11/05	Report B	GRO (AA-2012)	Arsenic (MS)	Cadmium (MS)	Chromium (MS)	Copper (MS)	Lead (MS)	Mercury (MS)	Nickel (MS)	Selenium (MS)	Zinc (MS)	MCertS Analysis	PAH by MS.16(0.08)	Phenol - HPLC	^Dioxins & Furans	Tot.Moisture @ 105C	TPH by GCFID (AR/Si)	VOC
Accredited to ISO17025				✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
CL/1116714	JC03b-FVPSamp-1-306448 0.2	20/04/11			E											E				E	E
CL/1116715	JC03b-FVPSamp-2-306449 0.2	20/04/11			E											E				E	E
CL/1116716	JC03b-FVPSamp-3-306450 0.2	20/04/11			E											E				E	E
CL/1116717	JC03b-FVPSamp-4-306451 0.2	20/04/11			E											E				E	E
CL/1116718	JC03b-FVPSamp-5-306452 0.2	20/04/11			E											E				E	E
CL/1116719	JC03b-FVPSamp-6-306453 0.2	20/04/11			E											E				E	E
CL/1116720	JC03b-FVPSamp-7-306454 0.2	20/04/11			E											E				E	E
CL/1116721	JC03b-FVPSamp-8-306455 0.2	20/04/11			E											E				E	E
CL/1116722	JC03b-FVPSamp-9-306456 0.2	20/04/11			E											E				E	E
CL/1116723	JC03b-FVPSamp-10-306457 0.	20/04/11			E											E				E	E

Note: For analysis where the Report Due date is greater than 7 days (Volatiles, PAH, Pesticides, PCB, Phenols, Herbicides) or 2 days (BOD) after the sampling date, although we will do our utmost to prioritise your samples, they may become deviant whilst being processed in the Laboratory.

In this instance, please contact the Laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time

Requested Analysis Key

	Analysis Required
	Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
	No analysis scheduled
^	Analysis Subcontracted

Where individual results are flagged see report notes for status

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	GROHSA	As Received	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace GCFID
Soil	ICPMSS	Air Dried	Determination of Metals in soil samples by aqua regia digestion followed by ICPMS
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection
Soil	PHEHPLC	As Received	Determination of Phenols by methanol extraction followed by HPLC detection
Soil	Subcon*	*	Contact Laboratory for details of the methodology used by the sub-contractor.
Soil	TMSS	As Received	Determination of the Total Moisture content at 105ºC by loss on oven drying gravimetric analysis
Soil	TPHUSSI	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions.
Soil	VOCSW8100	As Received	Determination of Volatile Organic Compounds (VOC) by purge and trap followed by GCMS detection

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,
- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,
- Results are expressed as mg/kg
- SG is expressed as g/cm^3@ 15^{o}C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile
CR Denotes Crocidolite
AM Denotes Amosite
NAIIS No Asbestos Identified in Sample

Symbol Reference

^ Sub-contracted analysis. Note: The accreditation status is that assigned by the subcontract laboratory.
$$ Unable to analyse due to the nature of the sample
¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
¥ Results for guidance only due to possible interference
& Blank corrected result
I.S Insufficient sample to complete requested analysis
I.S(g) Insufficient sample to re-analyse, results for guidance only
Intf Unable to analyse due to interferences
N.D Not determined
N.Det Not detected
Req Analysis requested, see attached sheets for results
Þ Raised detection limit due to nature of the sample
***** All accreditation has been removed by the laboratory for this result
‡ MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

END OF REPORT

Sample Descriptions

Client : Soil Mechanics

Site : Jackson CE, Warm-Up Track, OP

Report Number : S11_3618M

Note: major constituent in upper case

Lab ID Number	Client ID	Description
CL/1116714	FV306448 ESC 1 0.20	Grey Stone MADE GROUND
CL/1116715	FV306449 ESC 1 0.20	Grey Stone MADE GROUND
CL/1116716	FV306450 ESC 1 0.20	Grey Stone SILT
CL/1116717	FV306451 ESC 1 0.20	Grey Stone MADE GROUND
CL/1116718	FV306452 ESC 1 0.20	Grey Stone SILT
CL/1116719	FV306453 ESC 1 0.20	Grey Stone MADE GROUND
CL/1116720	FV306454 ESC 1 0.20	Grey Stone SILT
CL/1116721	FV306455 ESC 1 0.20	Grey Stone MADE GROUND
CL/1116722	FV306456 ESC 1 0.20	Grey Stone MADE GROUND
CL/1116723	FV306457 ESC 1 0.20	Grey Stone MADE GROUND

END OF REPORT

Our Ref: EFS/113985M (Ver. 1)
Your Ref: R1080-11

May 24, 2011

Scientifics
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Staffordshire
DE15 0YZ

Telephone: 01283 554400
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[redacted]
Environmental Services Group
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

For the attention of [redacted]

Dear [redacted]

SOIL Sample Analysis - Jackson CE, Warm-Up Track, OP

Samples from the above site have been analysed in accordance with the schedule supplied.
The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

The samples will be kept until the agreed date when they will be discarded. Please call [redacted] for an extension of this date.
Please be aware that from 1 January 2003 our policy for the retention of paper based laboratory records and analysis reports will be 6 years.

The work was carried out in accordance with Environmental Scientifics Group Ltd (Scientifics) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for Scientifics

[redacted]

Scientifics, P.O. Box 100, Burton-upon-trent, DE15 0XD Tel: 01283 554400 Fax: 01283 554422
Scientifics is a trading name of Environmental Scientifics Group Limited.
Registered No: 2880501

TEST REPORT
SOIL SAMPLE ANALYSIS

1252

Report No. EFS/113985M (Ver. 1)

Environmental Services Group
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

Site: Jackson CE, Warm-Up Track, OP

The 10 samples described in this report were logged for analysis by Scientifics on 12-May-2011. This report supersedes any versions previously issued by the laboratory.
The analysis was completed by: 24-May-2011

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited
Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics.

The following tables are contained in this report:

On behalf of
Scientifics : [redacted]

Date of Issue: 24-May-2011

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)
Tests marked '^' have been subcontracted to another laboratory.
(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.
All results are reported on a dry weight basis at 105^{o}C unless otherwise stated. (except QC samples)
Scientifics accepts no responsibility for any sampling not carried out by our personnel.

Units :		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	ug/kg			
Method Codes :		ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	PAHMSUS	TMSS	TPHUSSI	VOCSW8100			
Method Reporting Limits :		0.3	0.2	1.2	1.6	0.7	0 5	2	0.5	16	0.08	0.2	10.0	5			
Accreditation Code:		UM	UM	UM	UM	UM	UM	UM	UM	UM		U					
Laboratory ID Number CL/	**Client Sample Description**	**Arsenic (MS)**	**Cadmium (MS)**	**Chromium (MS)**	**Copper (MS)**	**Lead (MS)**	**Mercury (MS)**	**Nickel (MS)**	**Selenium (MS)**	**Zinc (MS)**	**PAH by MS.16(0.08)**	**Tot.Moisture @ 105C**	**TPH by GCFID (AR/Si)**	**VOC by GCMS (8100)**			
1118583	FV423365 ES 1 0.20	12 8	0.24	24.9	72.9	162.2	0.68	21.2	0.8	110	Req	11.3	Req	Req			
1118584	FV423366 ES 1 0.20	13 5	0.29	33.1	76.9	154.3	0.66	24.9	1.2	121.1	Req	12.1	Req	Req			
1118585	FV423367 ES 1 0.20	10.7	0.26	26.1	76.3	183.6	<0.52	18.5	0.8	151.6	Req	16.2	Req	Req			
1118586	FV423368 ES 1 0.20	10.6	0.23	24.2	92.8	188.1	1 26	19	0.9	113.4	Req	13.8	Req	Req			
1118587	FV423369 ES 1 0.20	10	0.23	28.3	45	140.5	<0.52	23.2	0.8	98.4	Req	15.5	Req	Req			
1118588	FV423370 ES 1 0.20	16 5	0.53	34.7	94.1	174	0.7	24	1.1	166.6	Req	14.8	Req	Req			
1118589	FV423371 ES 1 0.20	12 3	0.28	27.4	47.8	112	<0.51	20.1	0.9	111	Req	15.5	Req	Req			
1118590	FV423372 ES 1 0.20	10	0.24	29.4	55.3	104	<0.52	19.3	0.7	118.3	Req	15.5	Req	Req			
1118591	FV423373 ES 1 0.20	9.3	<0.20	27.6	66.4	128.6	0.73	21.6	1	111	Req	11.3	Req	Req			
1118592	FV423374 ES 1 0.20	10 2	0.27	26.3	62	130	<0.50	18.6	0.7	120.5	Req	11.1	Req	Req			

scientifics

Bretby Business Park, Ashby Road

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Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Soils Sample Analysis

Date Printed	24-May-11
Report Number	**EFS/113985M**
Table Number	**1**

Where individual results are flagged see report notes for status.
Resu ts corrected to dry weight at 105ºC where appr opriate, in accordance with the MCERTS standard.

Units :		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg										
Method Codes :		GROHSA	PHEHPLC	PHEHPLC	PHEHPLC	PHEHPLC	PHEHPLC										
Method Reporting Limits :		0.2	0.3	0.3	0.3	0.3	0 3										
Accreditation Code:		no	UM	U	U	U	U										
Laboratory ID Number CL/	**Client Sample Description**	**GRO (AA-2012)**	**Phenol**	**Cresols**	**Xylenols**	**Trimethylphenols**	**Total Phenols**										
1118583	FV423365 ES 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.4										
1118584	FV423366 ES 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.4										
1118585	FV423367 ES 1 0.20	Req	<0.4	<0.4	<0.4	<0.4	<1.4										
1118586	FV423368 ES 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.4										
1118587	FV423369 ES 1 0.20	Req	<0.4	<0.4	<0.4	<0.4	<1.4										
1118588	FV423370 ES 1 0.20	Req	<0.4	<0.4	<0.4	<0.4	<1.4										
1118589	FV423371 ES 1 0.20	Req	<0.4	<0.4	<0.4	<0.4	<1.4										
1118590	FV423372 ES 1 0.20	Req	<0.4	<0.4	<0.4	<0.4	<1.4										
1118591	FV423373 ES 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.4										
1118592	FV423374 ES 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										

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Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Soils Sample Analysis

Date Printed	24-May-11
Report Number	**EFS/113985M**
Table Number	**1**

Where individual results are flagged see report notes for status.
Resu ts corrected to dry weight at 105ºC where appr opriate, in accordance with the MCERTS standard.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423365 ES 1 0.20	**Job Number:**	S11_3985M
LIMS ID Number:	CL1118583	**Date Booked in:**	12-May-11
QC Batch Number:	111067	**Date Extracted:**	19-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	19-May-11
Directory:	911PAH.MS14\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.27	0.25	95	**UM**
Acenaphthylene	208-96-8	4.32	0.10	97	U
Acenaphthene	83-32-9	4.43	0.19	95	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.64	0.60	97	UM
Anthracene	120-12-7	5.70	0.24	97	U
Fluoranthene	206-44-0	6.97	1.83	93	UM
Pyrene	129-00-0	7.26	1.86	90	UM
Benzo[a]anthracene	56-55-3	8.93	0.74	92	UM
Chrysene	218-01-9	8.98	0.60	95	UM
Benzo[b]fluoranthene	205-99-2	10.46	0.77	98	UM
Benzo[k]fluoranthene	207-08-9	10.49	0.28	97	UM
Benzo[a]pyrene	50-32-8	10.88	0.67	95	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.25	0.39	91	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.54	0.54	90	UM
Total (USEPA16) PAHs	-	-	< 9.21	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	93
Acenaphthene-d10	91
Phenanthrene-d10	95
Chrysene-d12	96
Perylene-d12	94

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	95
Terphenyl-d14	99

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423366 ES 1 0.20	**Job Number:**	S11_3985M
LIMS ID Number:	CL1118584	**Date Booked in:**	12-May-11
QC Batch Number:	111067	**Date Extracted:**	19-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	19-May-11
Directory:	911PAH.MS14\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.27	0.15	91	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	4.43	0.10	97	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.64	0.43	97	UM
Anthracene	120-12-7	5.70	0.28	90	U
Fluoranthene	206-44-0	6.97	0.96	91	UM
Pyrene	129-00-0	7.26	0.97	90	UM
Benzo[a]anthracene	56-55-3	8.93	0.49	92	UM
Chrysene	218-01-9	8.98	0.53	95	UM
Benzo[b]fluoranthene	205-99-2	10.46	0.65	75	UM
Benzo[k]fluoranthene	207-08-9	10.49	0.30	80	UM
Benzo[a]pyrene	50-32-8	10.88	0.53	92	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.25	0.32	90	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.54	0.39	90	UM
Total (USEPA16) PAHs	-	-	< 6.40	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	93
Acenaphthene-d10	90
Phenanthrene-d10	92
Chrysene-d12	86
Perylene-d12	79

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	96
Terphenyl-d14	97

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423367 ES 1 0.20	**Job Number:**	S11_3985M
LIMS ID Number:	CL1118585	**Date Booked in:**	12-May-11
QC Batch Number:	111067	**Date Extracted:**	19-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	19-May-11
Directory:	911PAH.MS14\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.27	0.10	95	**UM**
Acenaphthylene	208-96-8	-	< 0.10	-	U
Acenaphthene	83-32-9	4.43	0.10	98	UM
Fluorene	86-73-7	-	< 0.10	-	UM
Phenanthrene	85-01-8	5.64	0.75	99	UM
Anthracene	120-12-7	5.70	0.25	98	U
Fluoranthene	206-44-0	6.97	1.35	93	UM
Pyrene	129-00-0	7.26	1.12	91	UM
Benzo[a]anthracene	56-55-3	8.93	0.63	95	UM
Chrysene	218-01-9	8.98	0.50	93	UM
Benzo[b]fluoranthene	205-99-2	10.46	0.75	92	UM
Benzo[k]fluoranthene	207-08-9	10.49	0.35	90	UM
Benzo[a]pyrene	50-32-8	10.88	0.58	94	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.25	0.41	74	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.10	-	UM
Benzo[g,h,i]perylene	191-24-2	12.54	0.44	91	UM
Total (USEPA16) PAHs	-	-	< 7.60	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	96
Acenaphthene-d10	92
Phenanthrene-d10	96
Chrysene-d12	97
Perylene-d12	94

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	96
Terphenyl-d14	98

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423368 ES 1 0.20	**Job Number:**	S11_3985M
LIMS ID Number:	CL1118586	**Date Booked in:**	12-May-11
QC Batch Number:	111067	**Date Extracted:**	19-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	19-May-11
Directory:	911PAH.MS14\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.27	0.30	96	**UM**
Acenaphthylene	208-96-8	4.32	0.14	99	U
Acenaphthene	83-32-9	4.43	0.22	98	UM
Fluorene	86-73-7	4.81	0.16	89	UM
Phenanthrene	85-01-8	5.64	0.89	99	UM
Anthracene	120-12-7	5.70	0.39	95	U
Fluoranthene	206-44-0	6.97	1.46	92	UM
Pyrene	129-00-0	7.26	1.91	90	UM
Benzo[a]anthracene	56-55-3	8.93	0.79	89	UM
Chrysene	218-01-9	8.98	0.68	91	UM
Benzo[b]fluoranthene	205-99-2	10.46	0.87	99	UM
Benzo[k]fluoranthene	207-08-9	10.49	0.29	96	UM
Benzo[a]pyrene	50-32-8	10.88	0.79	94	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.25	0.45	72	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.54	0.61	91	UM
Total (USEPA16) PAHs	-	-	< 10.12	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	94
Acenaphthene-d10	93
Phenanthrene-d10	96
Chrysene-d12	90
Perylene-d12	83

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	96
Terphenyl-d14	98

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423369 ES 1 0.20	**Job Number:**	S11_3985M
LIMS ID Number:	CL1118587	**Date Booked in:**	12-May-11
QC Batch Number:	111067	**Date Extracted:**	19-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	19-May-11
Directory:	911PAH.MS14\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.65	0.54	99	UM
Anthracene	120-12-7	5.70	0.21	94	U
Fluoranthene	206-44-0	6.97	1.31	92	UM
Pyrene	129-00-0	7.26	1.23	90	UM
Benzo[a]anthracene	56-55-3	8.93	0.64	95	UM
Chrysene	218-01-9	8.98	0.53	95	UM
Benzo[b]fluoranthene	205-99-2	10.46	0.70	91	UM
Benzo[k]fluoranthene	207-08-9	10.49	0.32	91	UM
Benzo[a]pyrene	50-32-8	10.88	0.53	95	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.25	0.34	96	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.54	0.39	95	UM
Total (USEPA16) PAHs	-	-	< 7.23	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	93
Acenaphthene-d10	90
Phenanthrene-d10	92
Chrysene-d12	91
Perylene-d12	87

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	97
Terphenyl-d14	100

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423370 ES 1 0.20	**Job Number:**	S11_3985M
LIMS ID Number:	CL1118588	**Date Booked in:**	12-May-11
QC Batch Number:	111067	**Date Extracted:**	19-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	19-May-11
Directory:	911PAH.MS14\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.65	0.66	99	UM
Anthracene	120-12-7	5.70	0.42	96	U
Fluoranthene	206-44-0	6.97	1.08	92	UM
Pyrene	129-00-0	7.26	0.96	91	UM
Benzo[a]anthracene	56-55-3	8.93	0.49	93	UM
Chrysene	218-01-9	8.98	0.45	93	UM
Benzo[b]fluoranthene	205-99-2	10.46	0.58	78	UM
Benzo[k]fluoranthene	207-08-9	10.49	0.20	86	UM
Benzo[a]pyrene	50-32-8	10.88	0.50	94	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.25	0.32	90	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.54	0.38	90	UM
Total (USEPA16) PAHs	-	-	< 6.50	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	94
Acenaphthene-d10	92
Phenanthrene-d10	96
Chrysene-d12	98
Perylene-d12	99

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	96
Terphenyl-d14	101

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423371 ES 1 0.20	**Job Number:**	S11_3985M
LIMS ID Number:	CL1118589	**Date Booked in:**	12-May-11
QC Batch Number:	111067	**Date Extracted:**	19-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	19-May-11
Directory:	911PAH.MS14\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.27	0.20	97	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	4.43	0.13	100	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.64	0.56	98	UM
Anthracene	120-12-7	5.70	0.20	91	U
Fluoranthene	206-44-0	6.97	1.21	92	UM
Pyrene	129-00-0	7.26	1.04	91	UM
Benzo[a]anthracene	56-55-3	8.93	0.57	98	UM
Chrysene	218-01-9	8.98	0.45	99	UM
Benzo[b]fluoranthene	205-99-2	10.46	0.70	94	UM
Benzo[k]fluoranthene	207-08-9	10.49	0.31	91	UM
Benzo[a]pyrene	50-32-8	10.88	0.53	94	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.25	0.39	87	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.54	0.44	89	UM
Total (USEPA16) PAHs	-	-	< 7.05	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	94
Acenaphthene-d10	92
Phenanthrene-d10	95
Chrysene-d12	95
Perylene-d12	95

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	96
Terphenyl-d14	100

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423372 ES 1 0.20	**Job Number:**	S11_3985M
LIMS ID Number:	CL1118590	**Date Booked in:**	12-May-11
QC Batch Number:	111067	**Date Extracted:**	19-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	19-May-11
Directory:	911PAH.MS14\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.65	0.32	98	UM
Anthracene	120-12-7	5.70	0.10	98	U
Fluoranthene	206-44-0	6.97	0.62	92	UM
Pyrene	129-00-0	7.26	0.53	90	UM
Benzo[a]anthracene	56-55-3	8.93	0.30	95	UM
Chrysene	218-01-9	8.98	0.20	98	UM
Benzo[b]fluoranthene	205-99-2	10.46	0.39	95	UM
Benzo[k]fluoranthene	207-08-9	10.49	0.21	98	UM
Benzo[a]pyrene	50-32-8	10.88	0.30	93	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.25	0.19	70	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.55	0.21	68	UM
Total (USEPA16) PAHs	-	-	< 3.89	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	97
Acenaphthene-d10	94
Phenanthrene-d10	96
Chrysene-d12	90
Perylene-d12	82

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	94
Terphenyl-d14	98

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423373 ES 1 0.20	**Job Number:**	S11_3985M
LIMS ID Number:	CL1118591	**Date Booked in:**	12-May-11
QC Batch Number:	111067	**Date Extracted:**	19-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	19-May-11
Directory:	911PAH.MS14\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.27	0.16	96	**UM**
Acenaphthylene	208-96-8	4.31	0.10	96	U
Acenaphthene	83-32-9	4.43	0.27	97	UM
Fluorene	86-73-7	4.81	0.10	96	UM
Phenanthrene	85-01-8	5.65	0.73	98	UM
Anthracene	120-12-7	5.70	0.30	94	U
Fluoranthene	206-44-0	6.97	1.30	92	UM
Pyrene	129-00-0	7.26	1.44	91	UM
Benzo[a]anthracene	56-55-3	8.93	0.67	94	UM
Chrysene	218-01-9	8.98	0.53	96	UM
Benzo[b]fluoranthene	205-99-2	10.46	0.69	78	UM
Benzo[k]fluoranthene	207-08-9	10.49	0.27	82	UM
Benzo[a]pyrene	50-32-8	10.88	0.61	93	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.25	0.38	91	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.54	0.52	92	UM
Total (USEPA16) PAHs	-	-	< 8.18	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	96
Acenaphthene-d10	93
Phenanthrene-d10	96
Chrysene-d12	93
Perylene-d12	90

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	96
Terphenyl-d14	98

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423374 ES 1 0.20	**Job Number:**	S11_3985M
LIMS ID Number:	CL1118592	**Date Booked in:**	12-May-11
QC Batch Number:	111067	**Date Extracted:**	19-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	19-May-11
Directory:	911PAH.MS14\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	4.43	0.15	95	UM
Fluorene	86-73-7	4.81	0.09	90	UM
Phenanthrene	85-01-8	5.64	0.81	99	UM
Anthracene	120-12-7	5.70	0.27	96	U
Fluoranthene	206-44-0	6.97	1.27	93	UM
Pyrene	129-00-0	7.26	1.03	92	UM
Benzo[a]anthracene	56-55-3	8.93	0.47	93	UM
Chrysene	218-01-9	8.98	0.38	93	UM
Benzo[b]fluoranthene	205-99-2	10.46	0.57	92	UM
Benzo[k]fluoranthene	207-08-9	10.49	0.26	90	UM
Benzo[a]pyrene	50-32-8	10.88	0.44	91	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.25	0.30	88	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.54	0.30	89	UM
Total (USEPA16) PAHs	-	-	< 6.66	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	97
Acenaphthene-d10	94
Phenanthrene-d10	97
Chrysene-d12	98
Perylene-d12	96

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	98
Terphenyl-d14	100

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Gasoline Range Organics
(BTEX and Aromatic/Aliphatic Carbon Ranges)

Customer and Site Details:	Soil Mechanics : Jackson CE, Warm-Up Track, OP	**Matrix:**	Soil
Job Number:	s11_3985	**Date Booked in:**	12-May-11
Directory:	D:\TES\DATA\Y2011\0519HSA_GC9\051911 2011-05-19 11-39-26\122B2201.D	**Date extracted:**	19-May-11
Method:	HEADSPACE GCFID	**Date Analysed:**	19-May-11, 18:37:21
Accreditation Code:	N	**Units:**	mg/kg

			Aromatics		Aliphatics		GRO	
	Sample ID	**Client ID**	**C5 - C7**	**>C7 - C8**	**C5 - C6**	**>C6 - C8**	**C8-C10**	**C5 - C10**
*	CL1118583	FV423365 ES 1 0.20	<0.01	<0.01	2.18	166.00	19.50	187.00
*	CL1118584	FV423366 ES 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1118585	FV423367 ES 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1118586	FV423368 ES 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1118587	FV423369 ES 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1118588	FV423370 ES 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1118589	FV423371 ES 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1118590	FV423372 ES 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1118591	FV423373 ES 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1118592	FV423374 ES 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

ALIPHATIC / AROMATIC FRACTION BY GC/FID

Customer and Site Details: Soil Mechanics : Jackson CE, Warm-Up Track, OP
Job Number: S11_3985
QC Batch Number: 111067
Directory: D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\066B2001.D
Method: Ultra Sonic

Separation: Silica gel
Eluents: Hexane, DCM

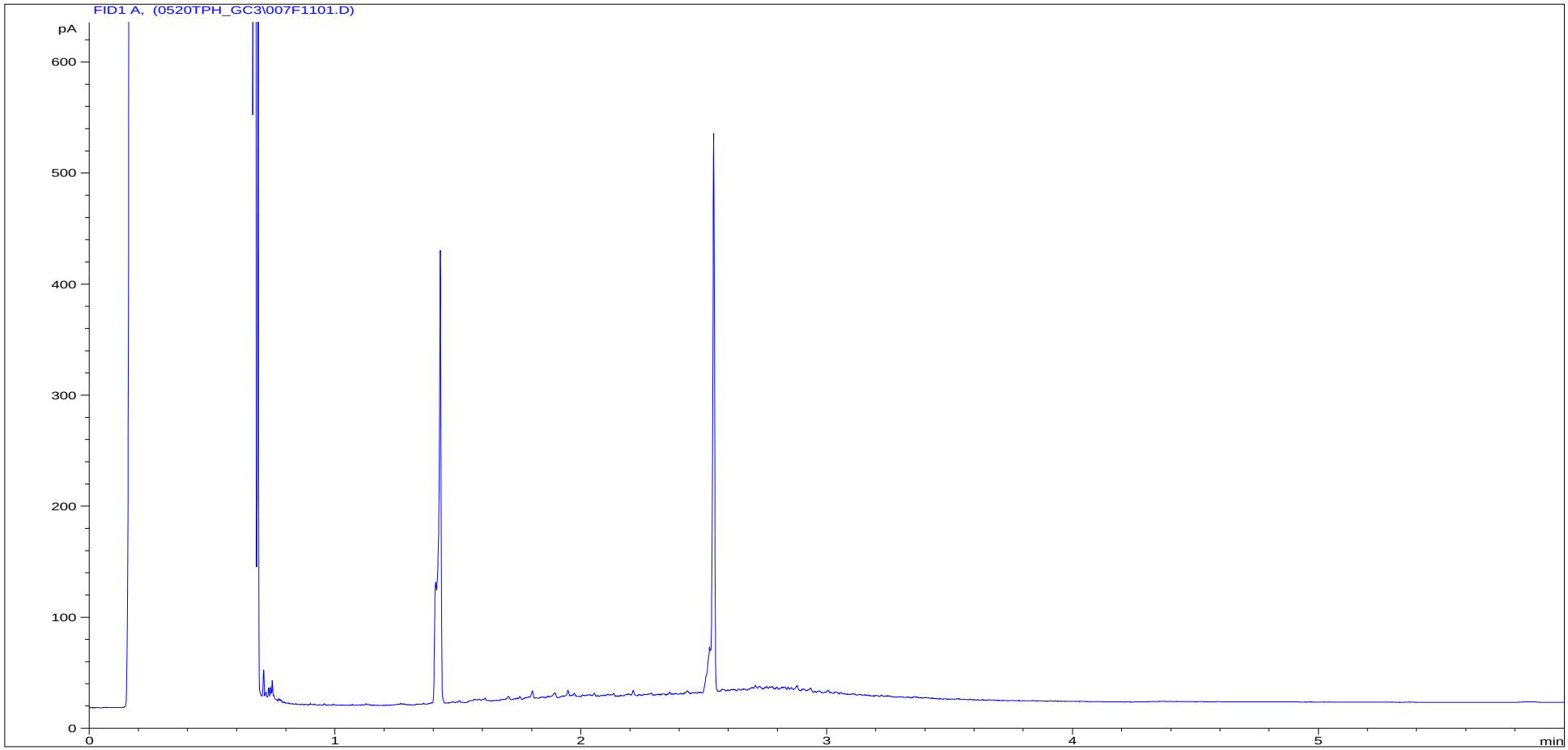
Matrix: Soil
Date Booked in 12-May-11
Date Extracted 19-May-11
Date Analysed: 20-May-11

This sample data is not MCERTS accredited.
*** This sample data is not ISO17025 accredited.**

		Concentration, (mg/kg) - as dry weight.											
		>C8 - C10		>C10 - C12		>C12 - C16		>C16 - C21		>C21 - C35		>C8 - C40	
Sample ID	**Client ID**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**
CL1118583	FV423365 ES 1 0.20	<5	<5	<5	<5	11	6 37	28.4	26.4	95.2	82	162	154
CL1118584	FV423366 ES 1 0.20	<5	<5	<5	<5	10.9	<5	22.9	14.4	78.6	58.7	142	115
CL1118585	FV423367 ES 1 0.20	<5	<5	<5	<5	5.47	<5	16.9	12.9	79.4	60 5	135	128
CL1118586	FV423368 ES 1 0.20	<5	<5	<5	<5	8.13	7 52	21.8	26.3	79.2	84.1	132	166
CL1118587	FV423369 ES 1 0.20	<5	<5	<5	<5	8.24	5.63	22.2	17.2	83.1	76.7	144	149
CL1118588	FV423370 ES 1 0.20	<5	<5	<5	<5	8.58	5.42	21.5	17.7	88.5	77 9	153	188
CL1118589	FV423371 ES 1 0.20	<5	<5	<5	<5	9.08	5.64	27.6	23.4	162	174	282	428
CL1118590	FV423372 ES 1 0.20	<5	<5	<5	<5	13.7	<5	41	9.29	80.4	45 9	166	98
CL1118591	FV423373 ES 1 0.20	<5	<5	<5	<5	6.11	6 32	17.8	21.1	79.5	73 2	129	154
CL1118592	FV423374 ES 1 0.20	<4.60	<4	<4.60	<4	9.81	5 98	22.6	20.7	90.4	71.4	164	173

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

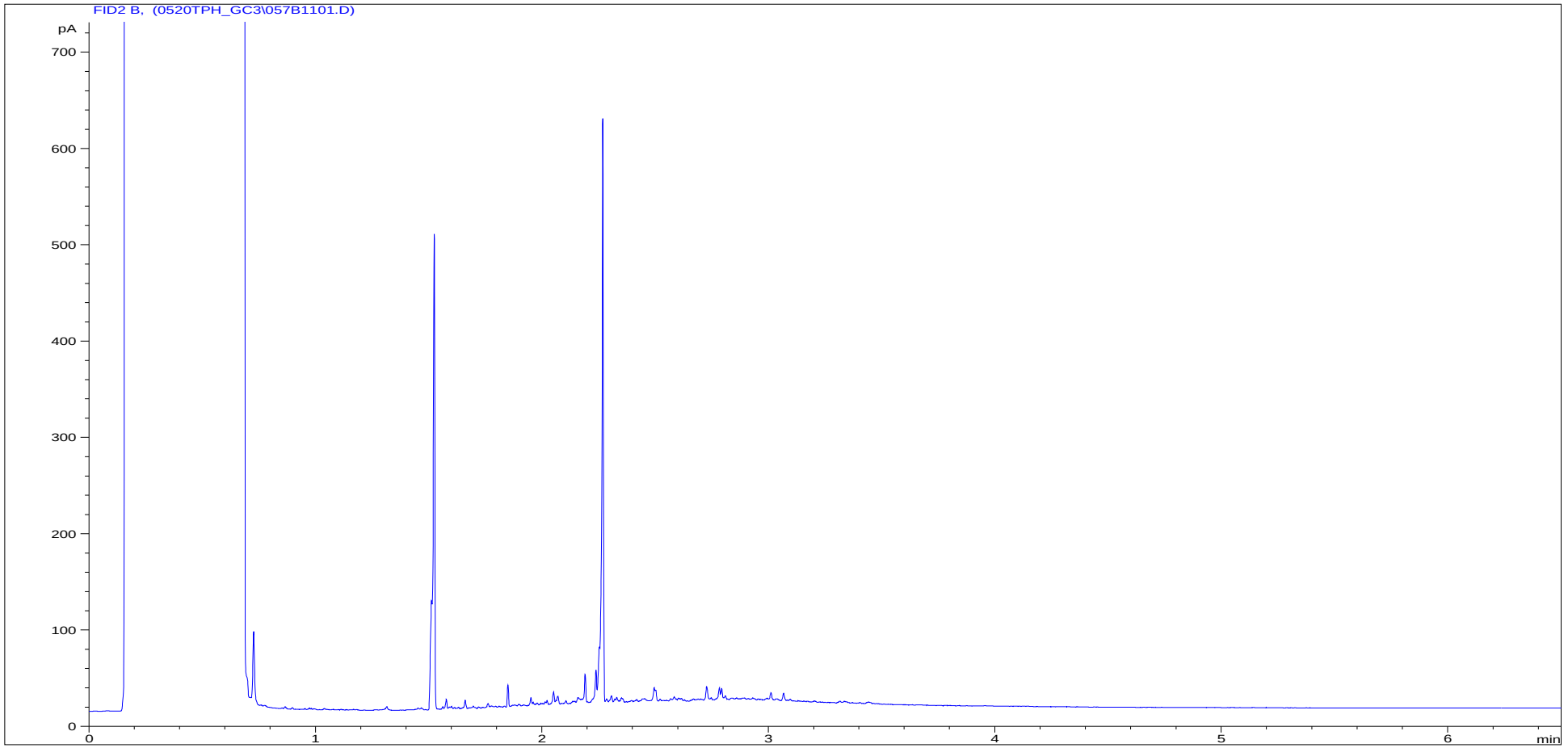
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1118583ALI	**Job Number:**	S11_3985M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423365 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\007F1101.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

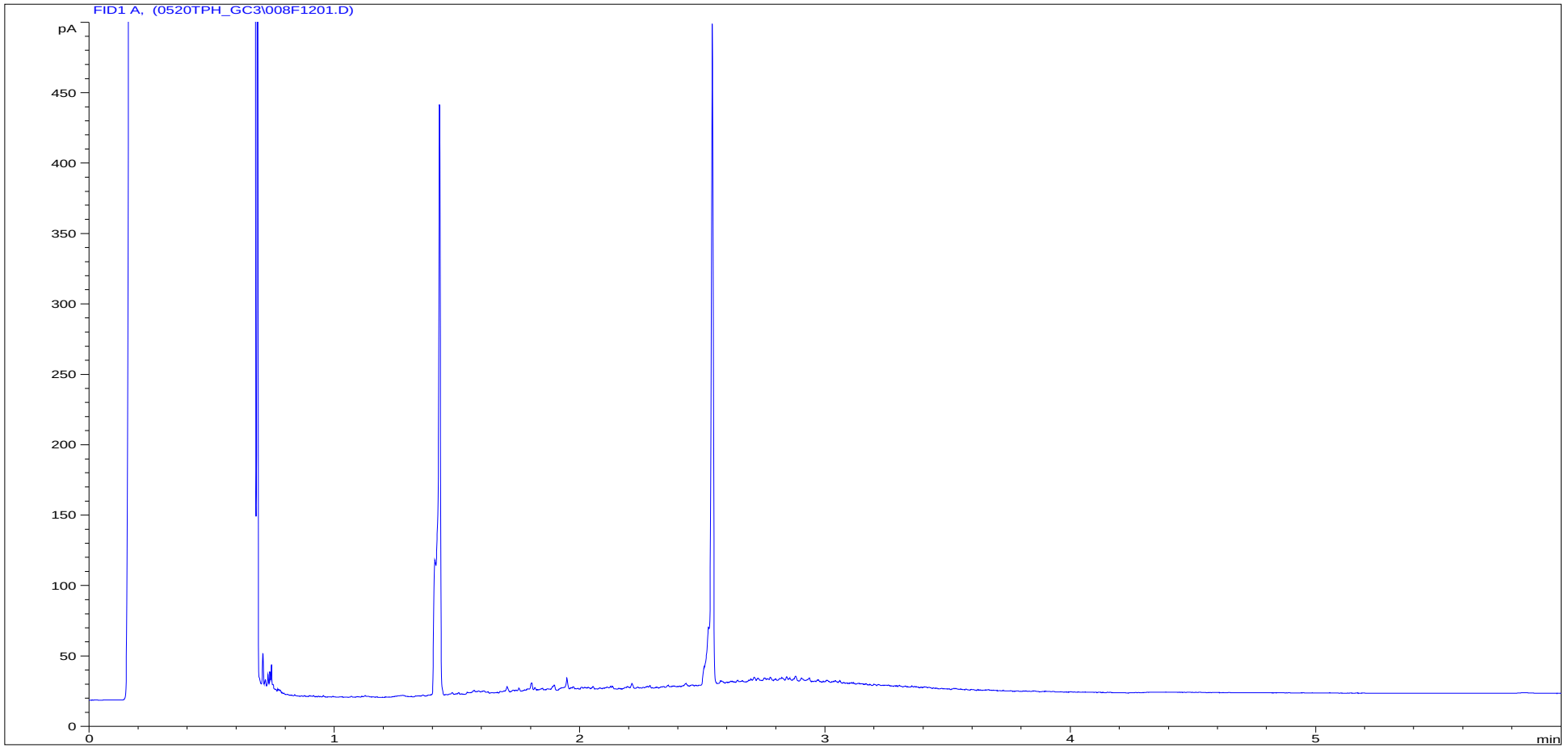
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1118583ARO	**Job Number:**	S11_3985M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423365 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\057B1101.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

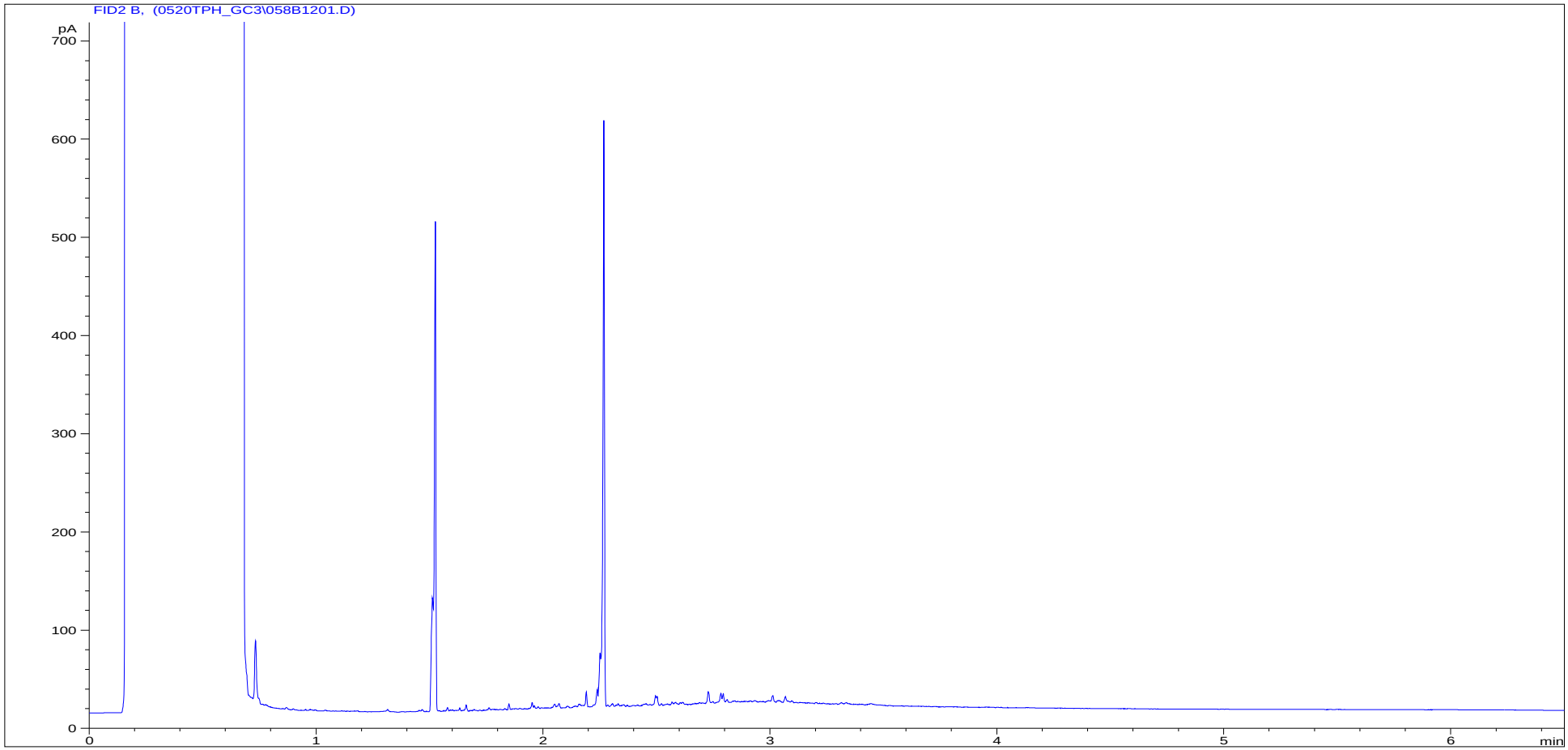
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1118584ALI	**Job Number:**	S11_3985M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423366 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\008F1201.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

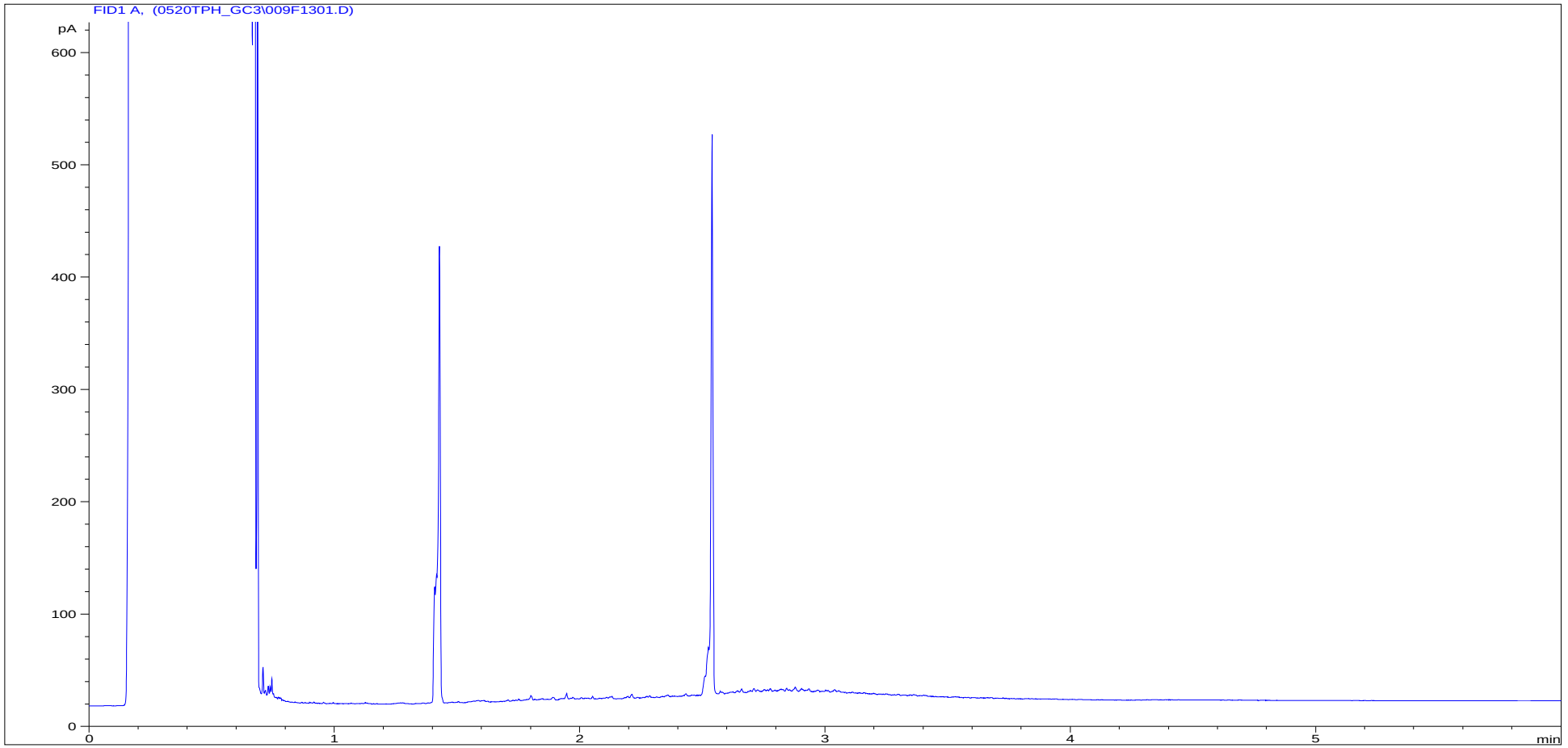
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1118584ARO	**Job Number:**	S11_3985M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423366 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\058B1201.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

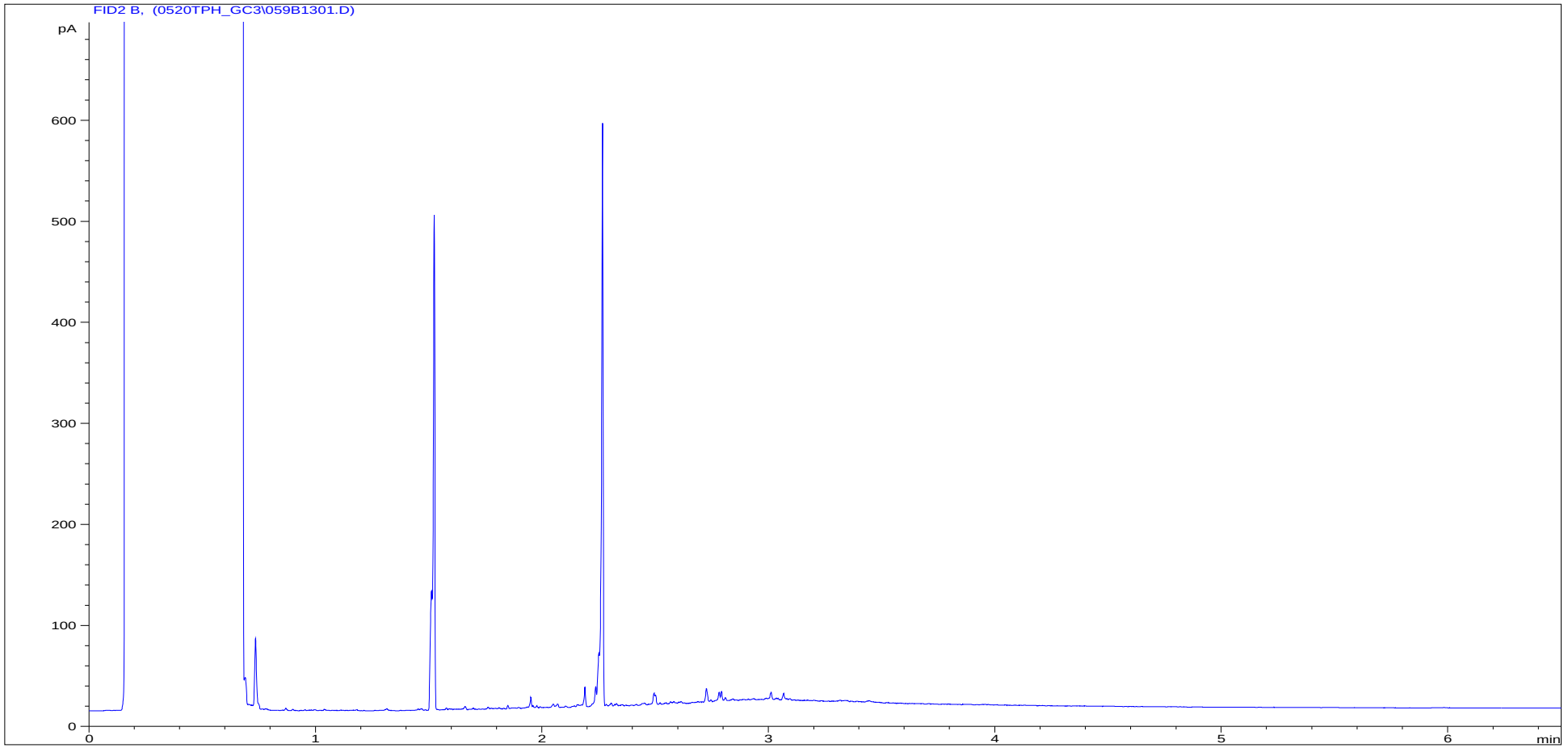
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1118585ALI	**Job Number:**	S11_3985M
Multiplier:	15.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423367 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\009F1301.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

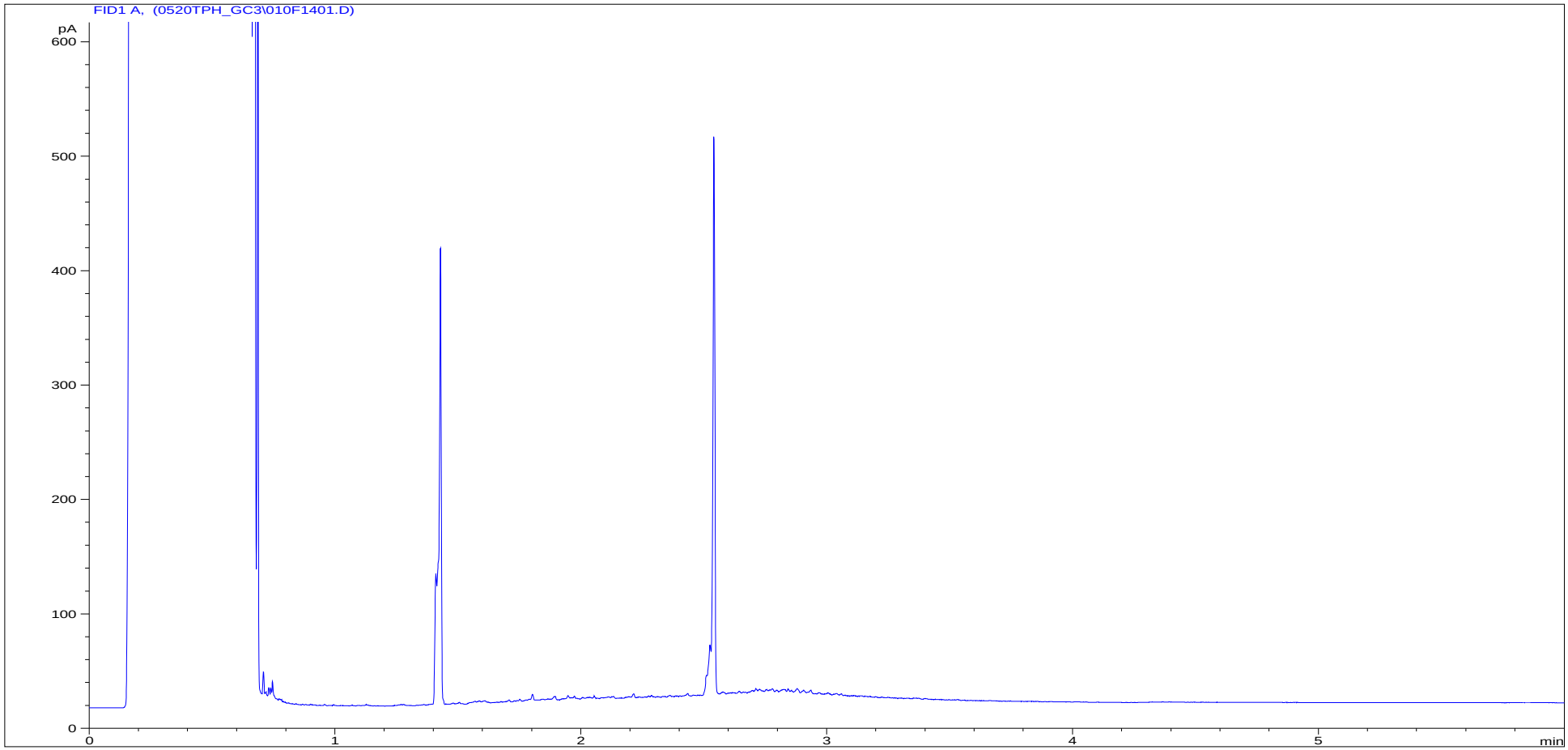
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1118585ARO	**Job Number:**	S11_3985M
Multiplier:	12.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423367 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\059B1301.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

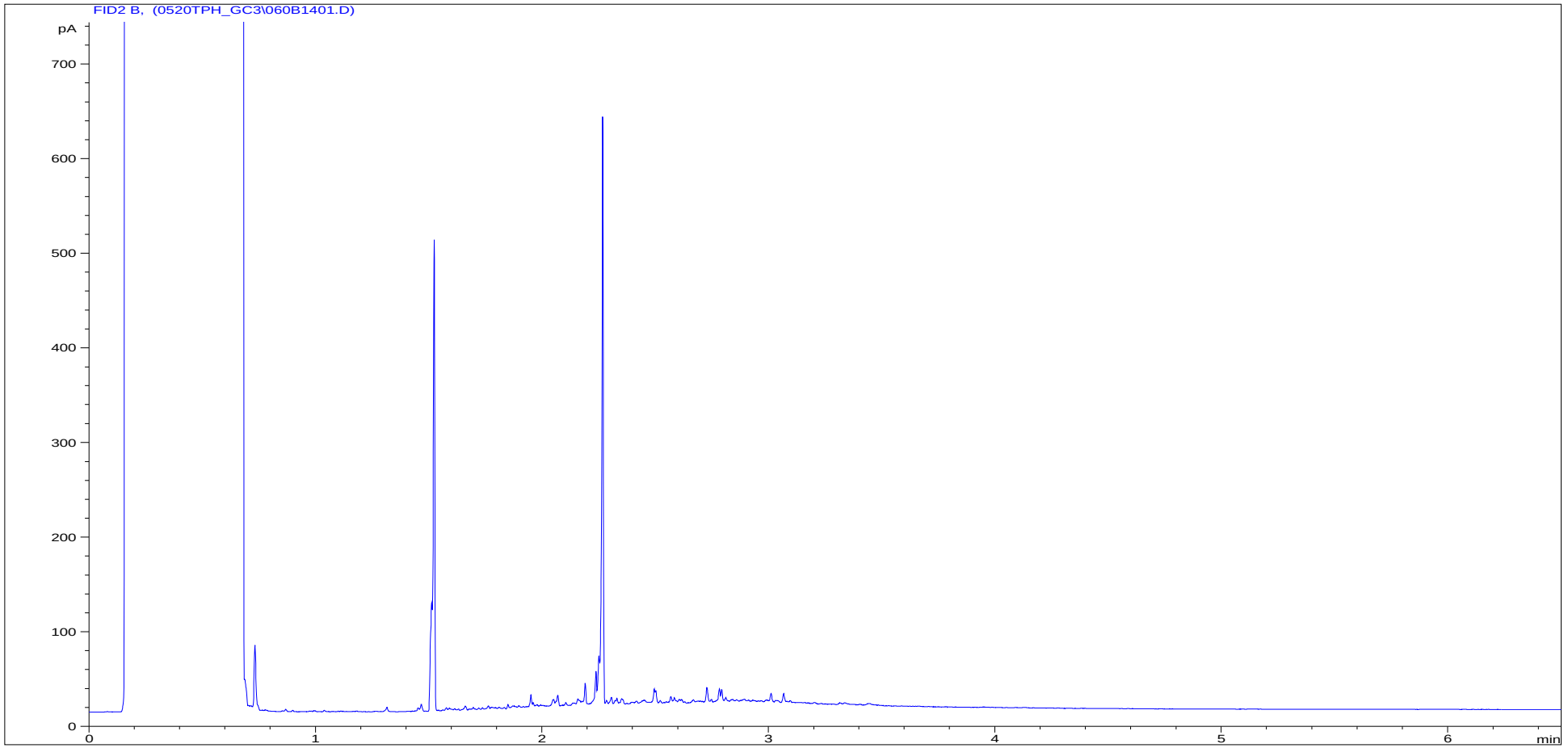
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1118586ALI	**Job Number:**	S11_3985M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423368 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\010F1401.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

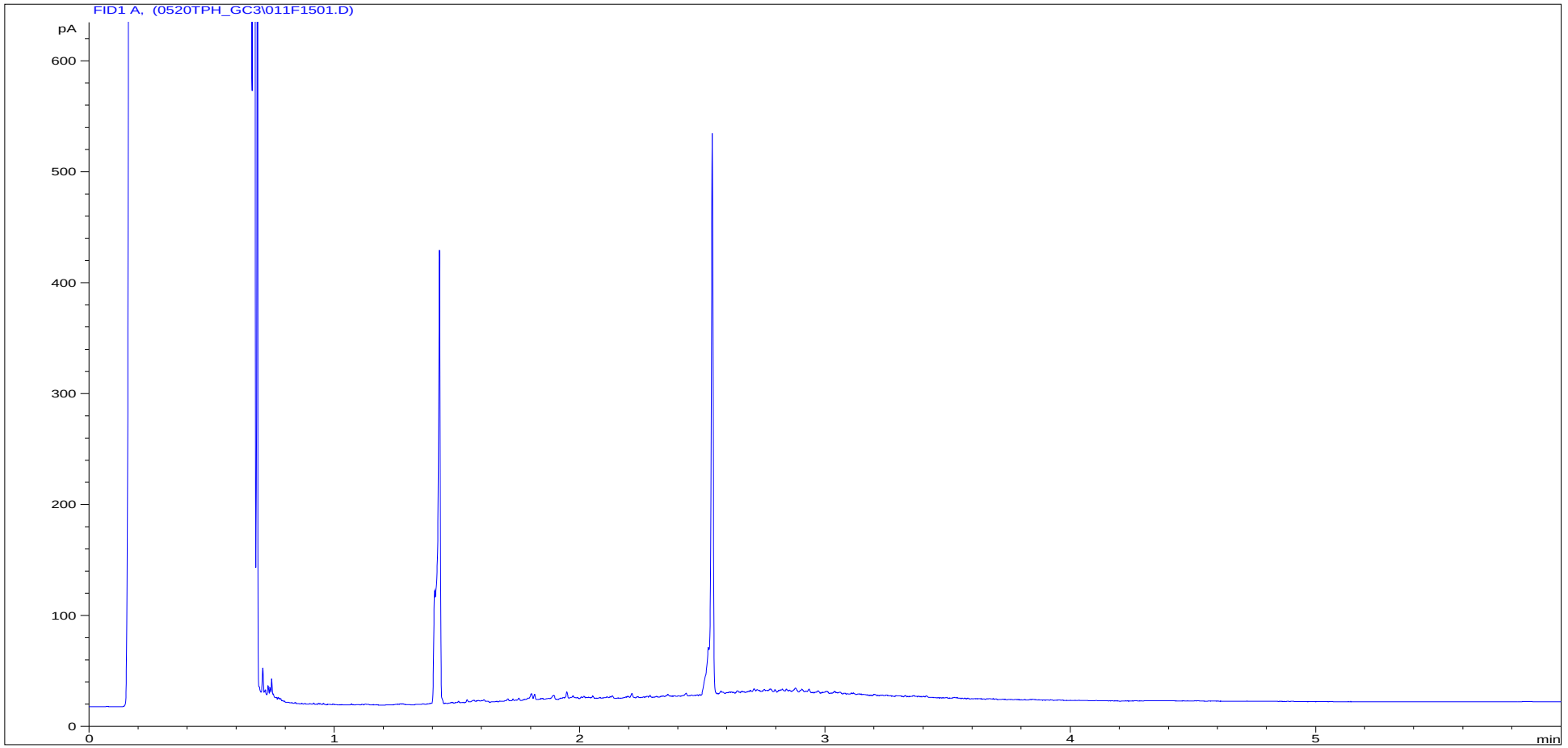
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1118586ARO	**Job Number:**	S11_3985M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423368 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\060B1401.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

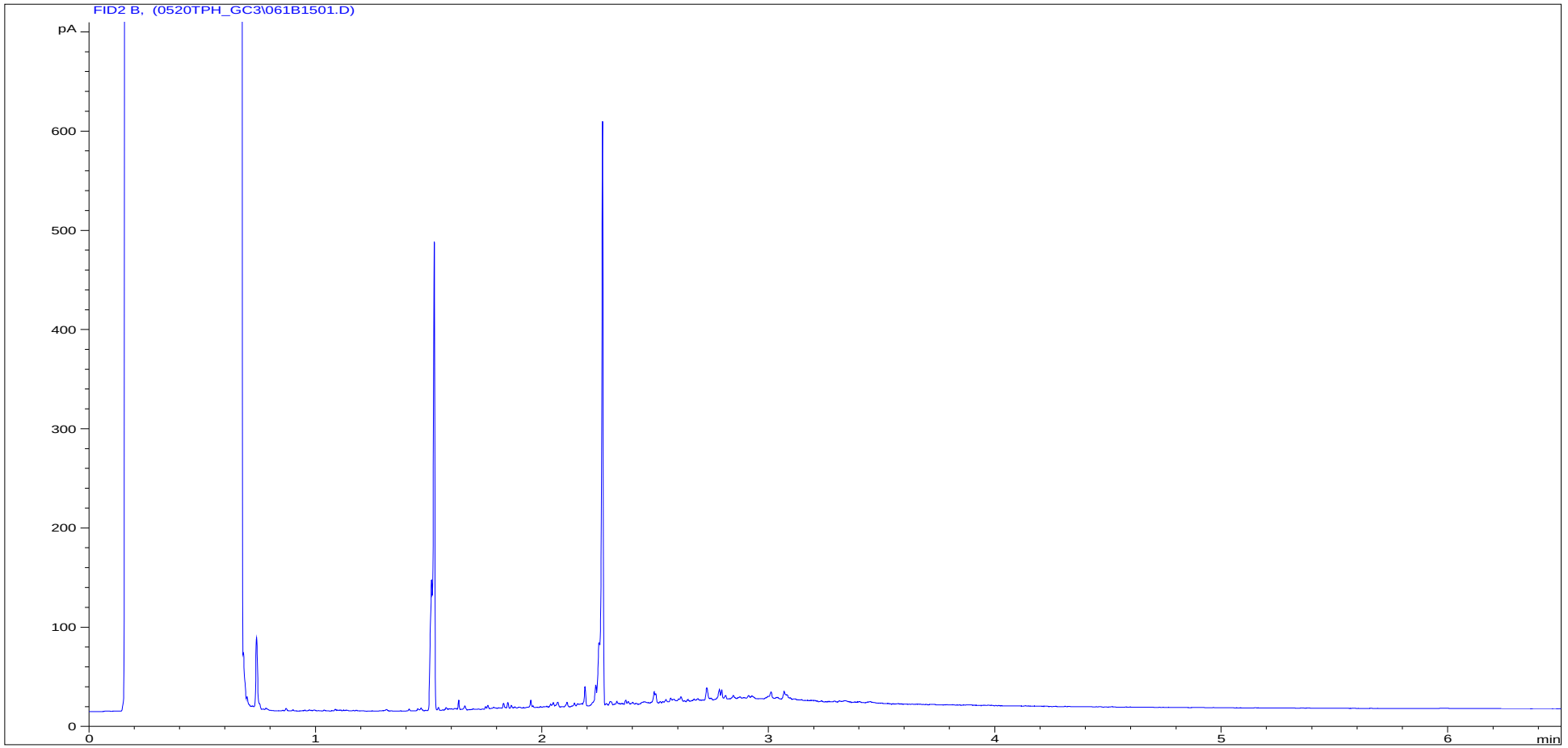
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1118587ALI	**Job Number:**	S11_3985M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423369 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\011F1501.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

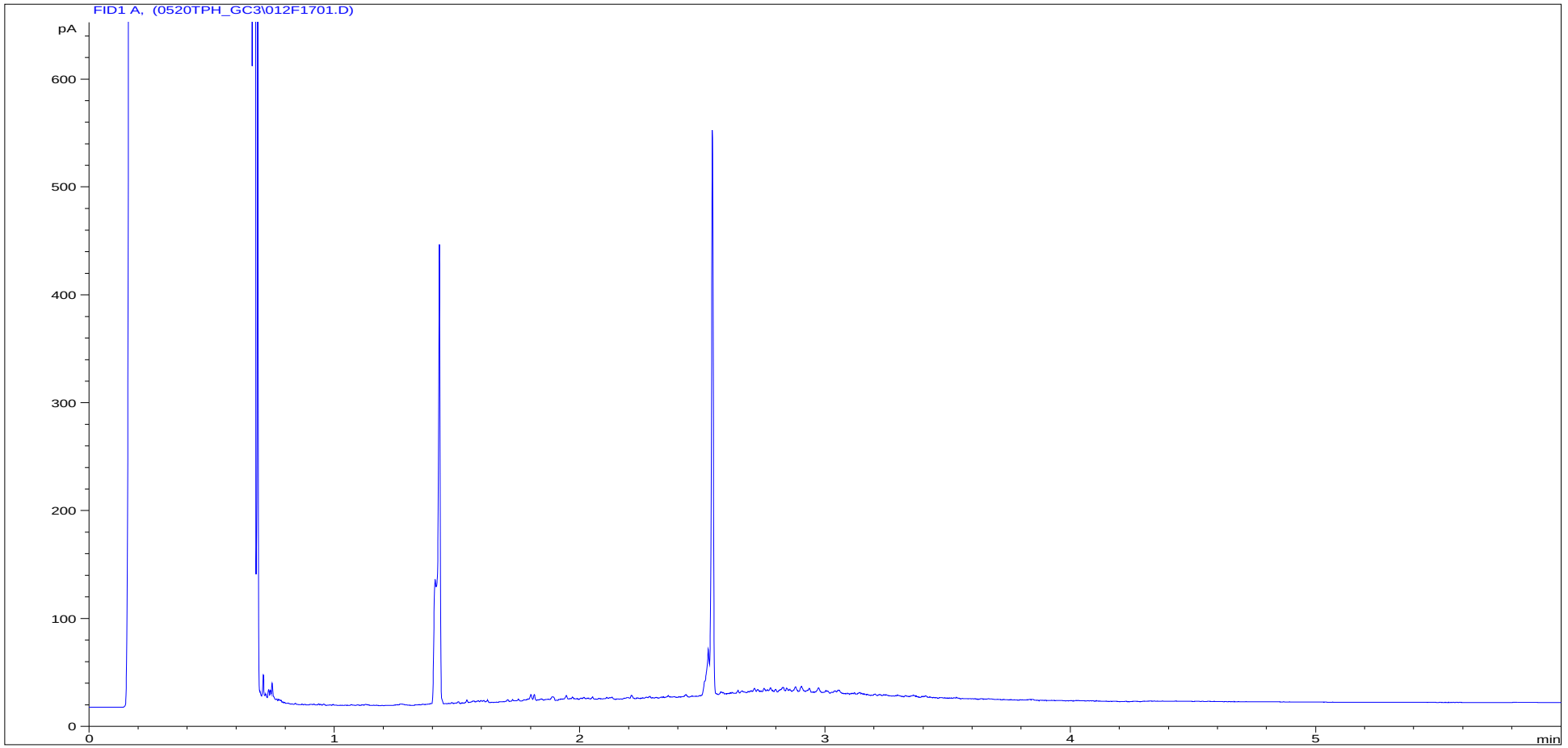
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1118587ARO	**Job Number:**	S11_3985M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423369 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\061B1501.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

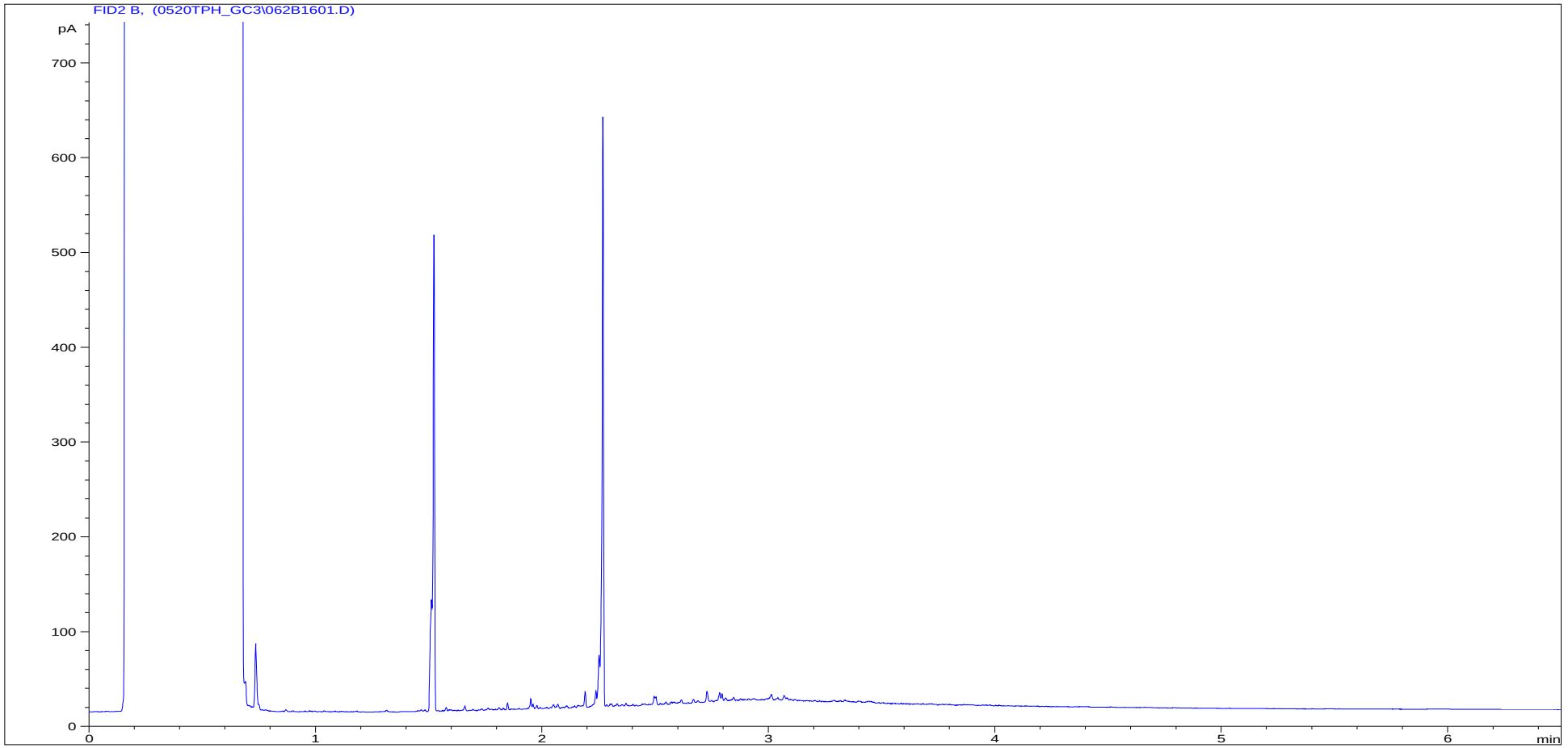
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1118588ALI	**Job Number:**	S11_3985M
Multiplier:	15.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423370 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\012F1701.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

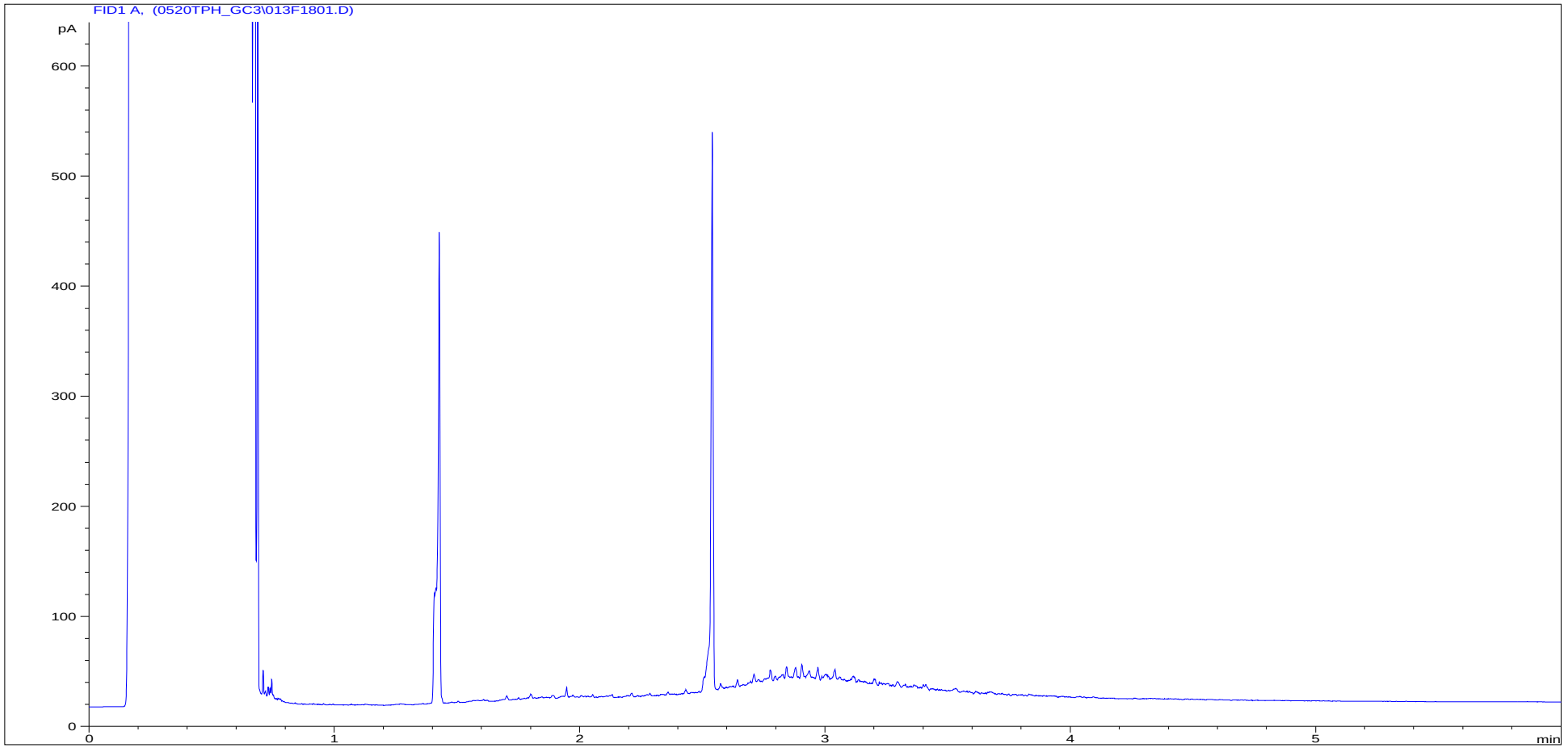
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1118588ARO	**Job Number:**	S11_3985M
Multiplier:	12.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423370 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\062B1601.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

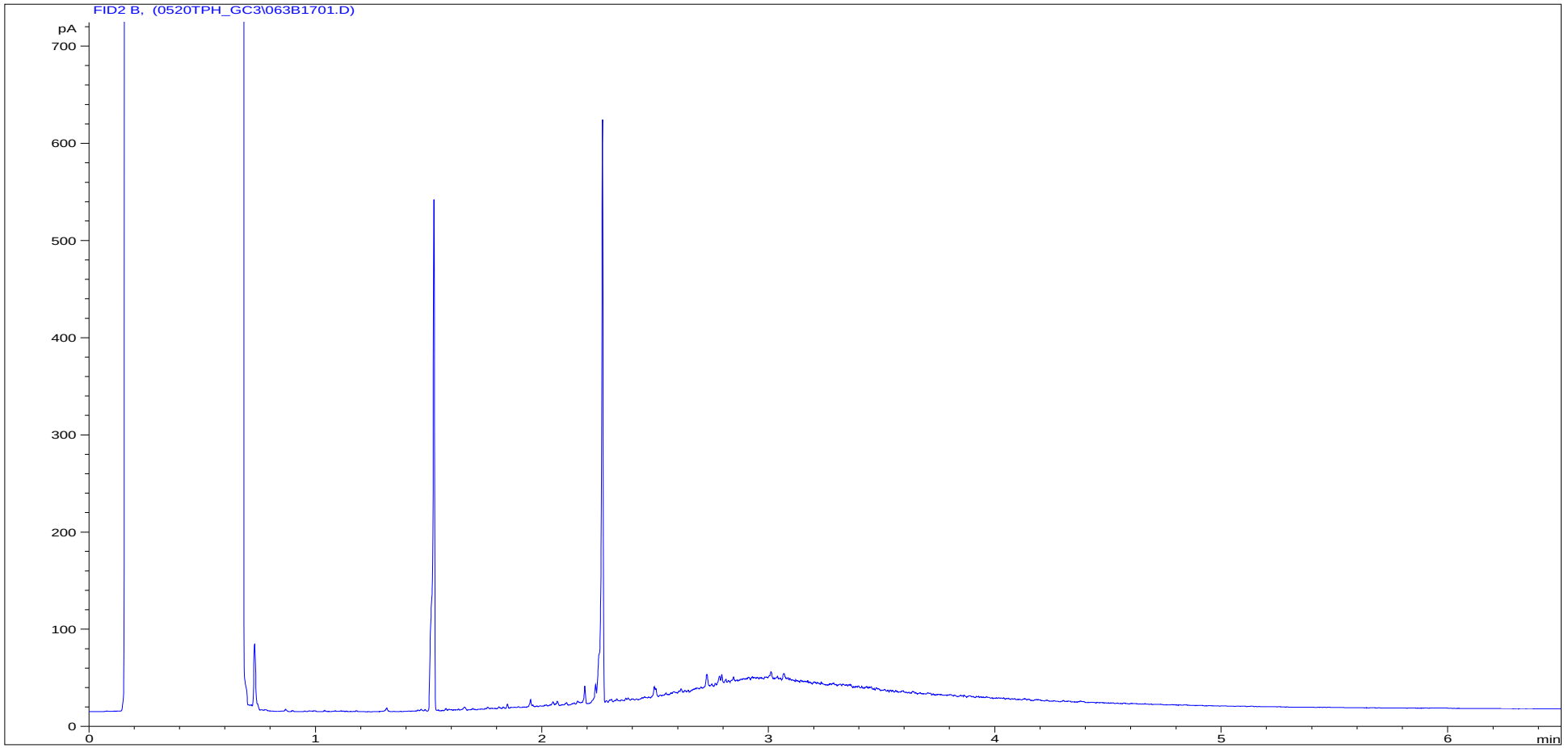
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1118589ALI	**Job Number:**	S11_3985M
Multiplier:	15.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423371 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\013F1801.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

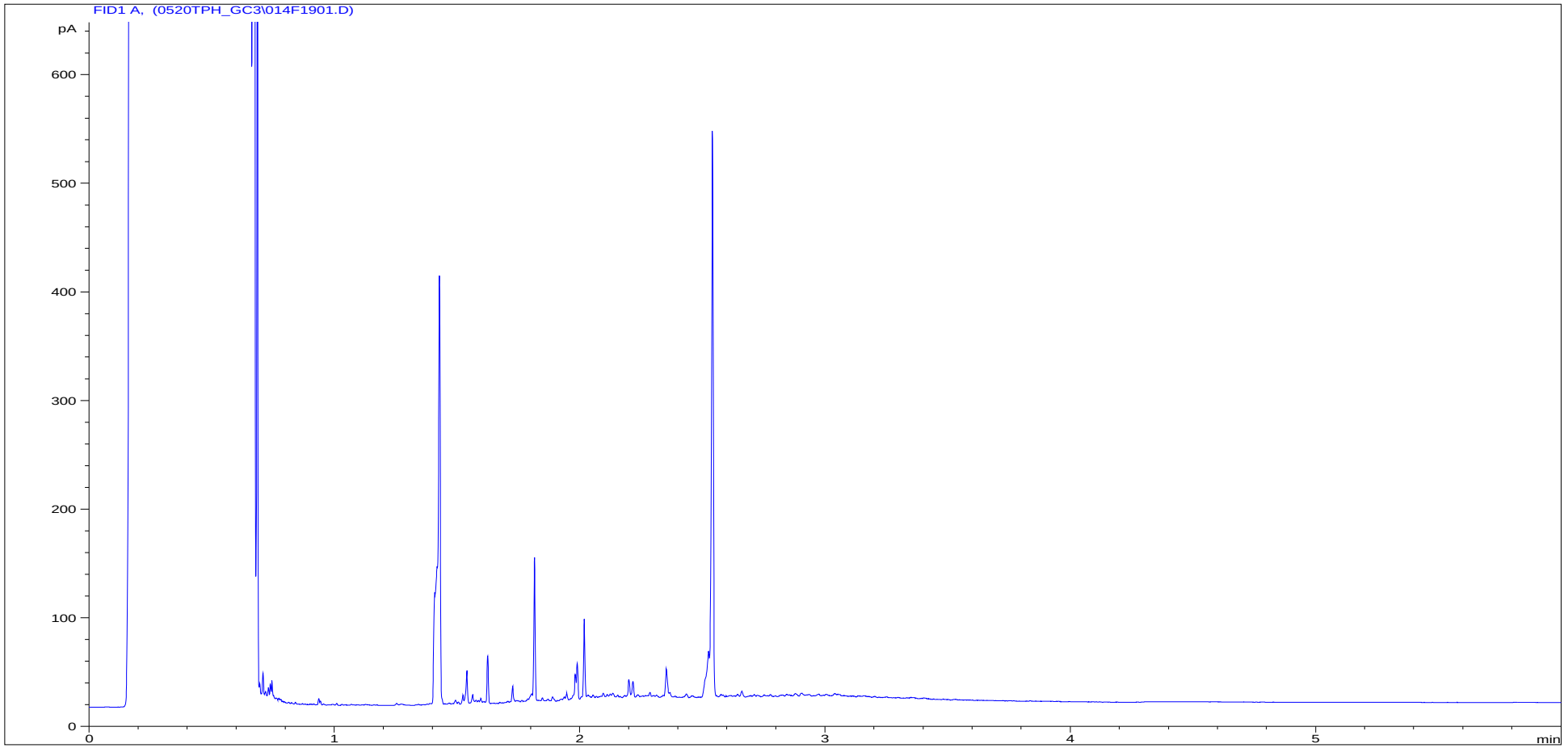
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1118589ARO	**Job Number:**	S11_3985M
Multiplier:	12.2	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423371 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\063B1701.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

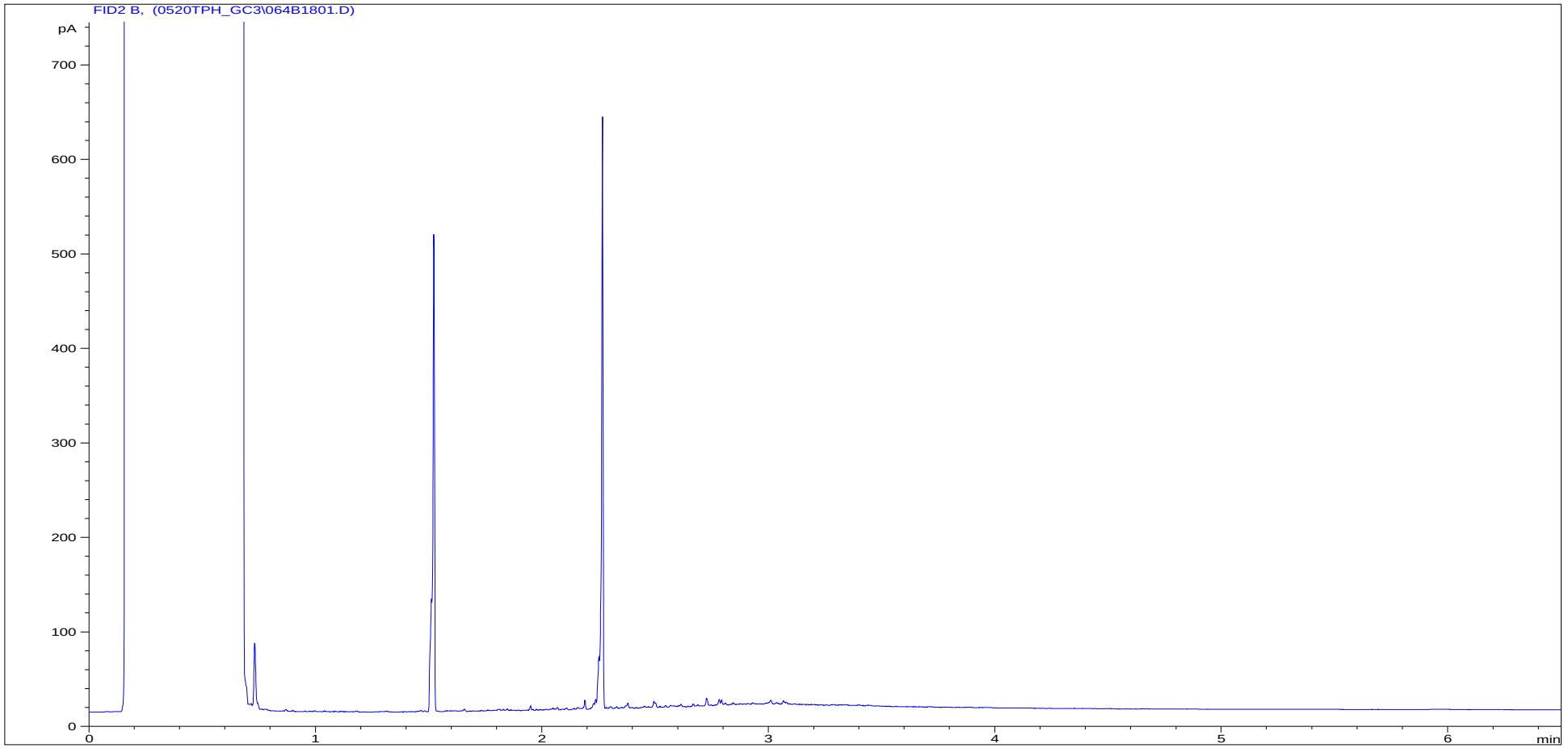
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1118590ALI	**Job Number:**	S11_3985M
Multiplier:	16	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423372 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\014F1901.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

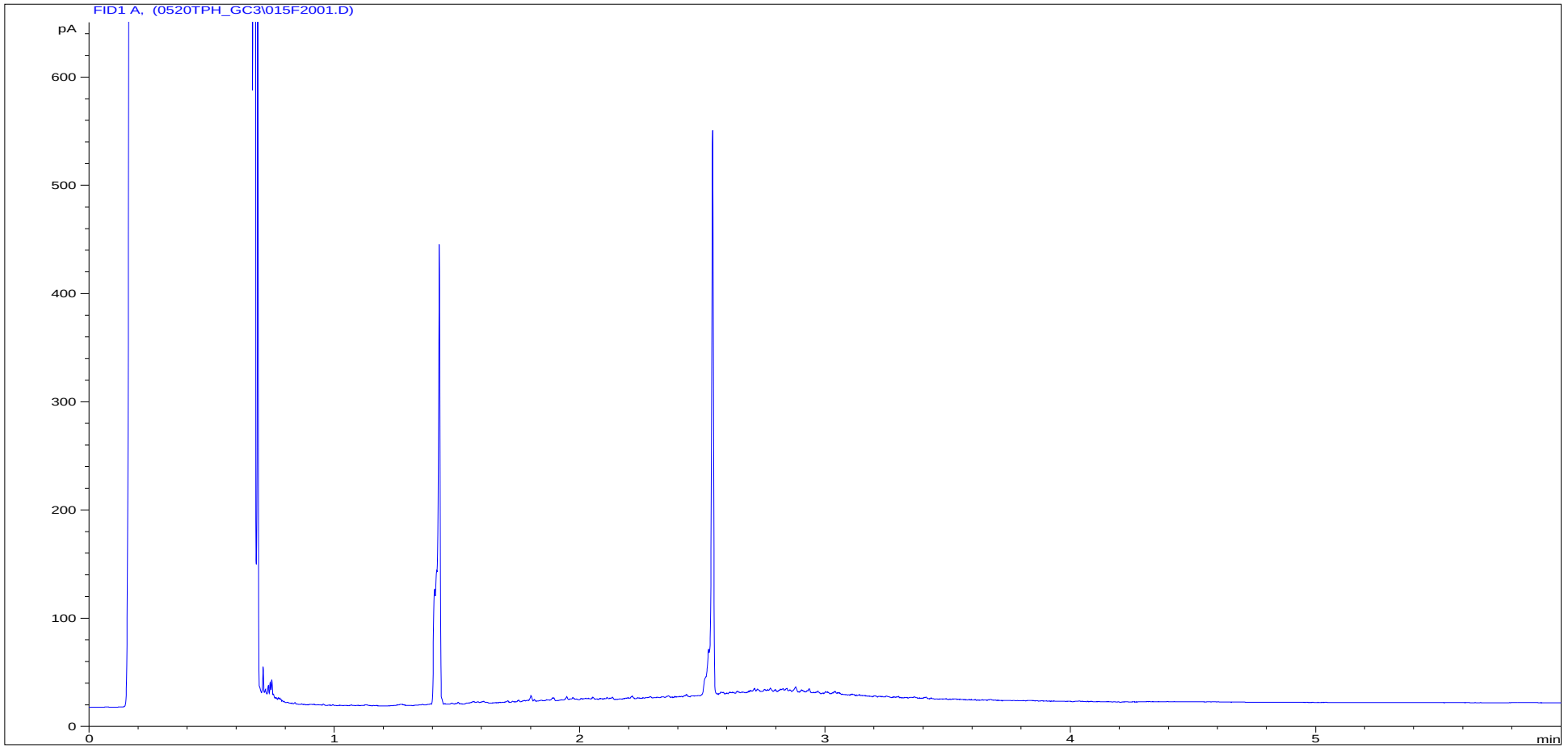
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1118590ARO	**Job Number:**	S11_3985M
Multiplier:	12	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423372 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\064B1801.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

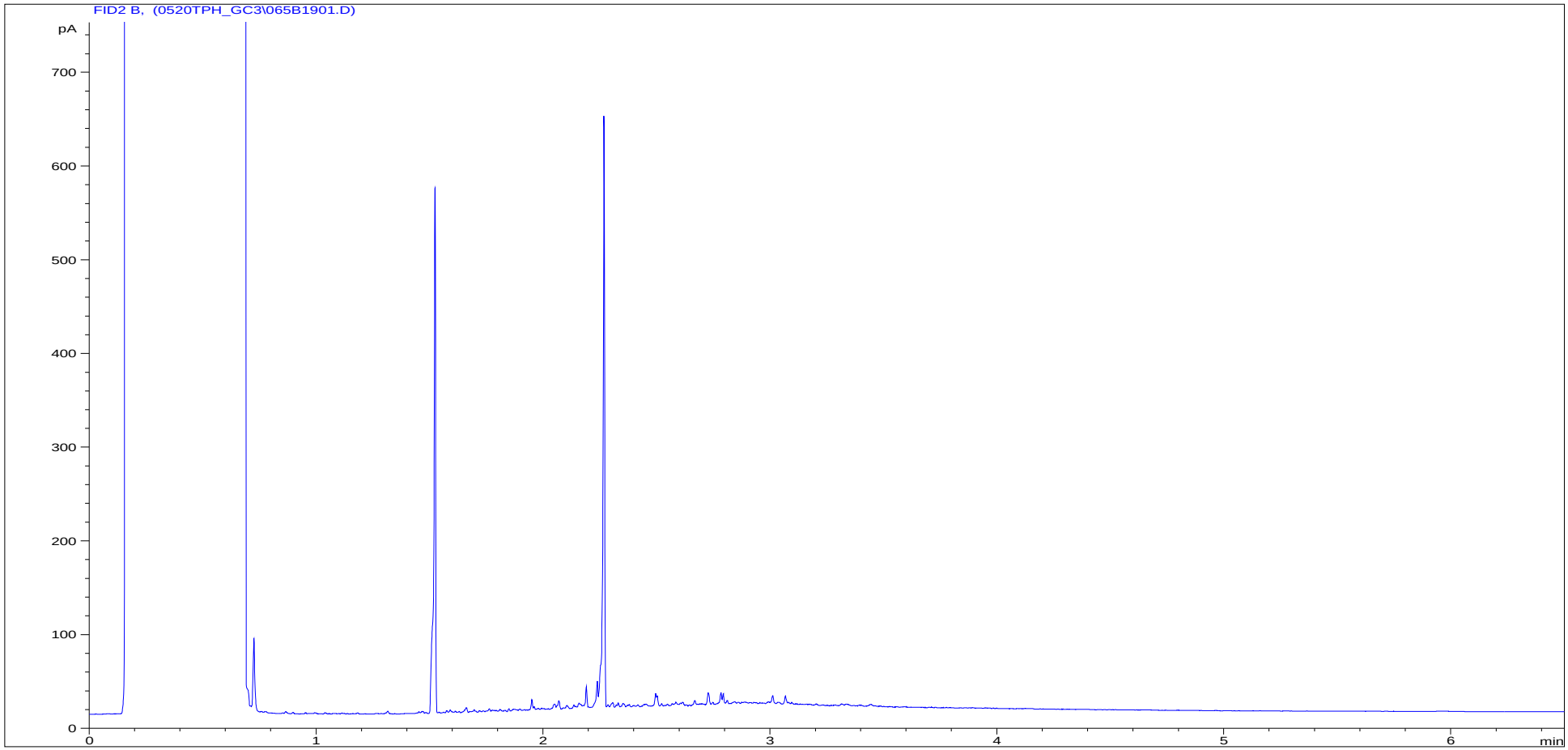
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1118591ALI	**Job Number:**	S11_3985M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423373 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\015F2001.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

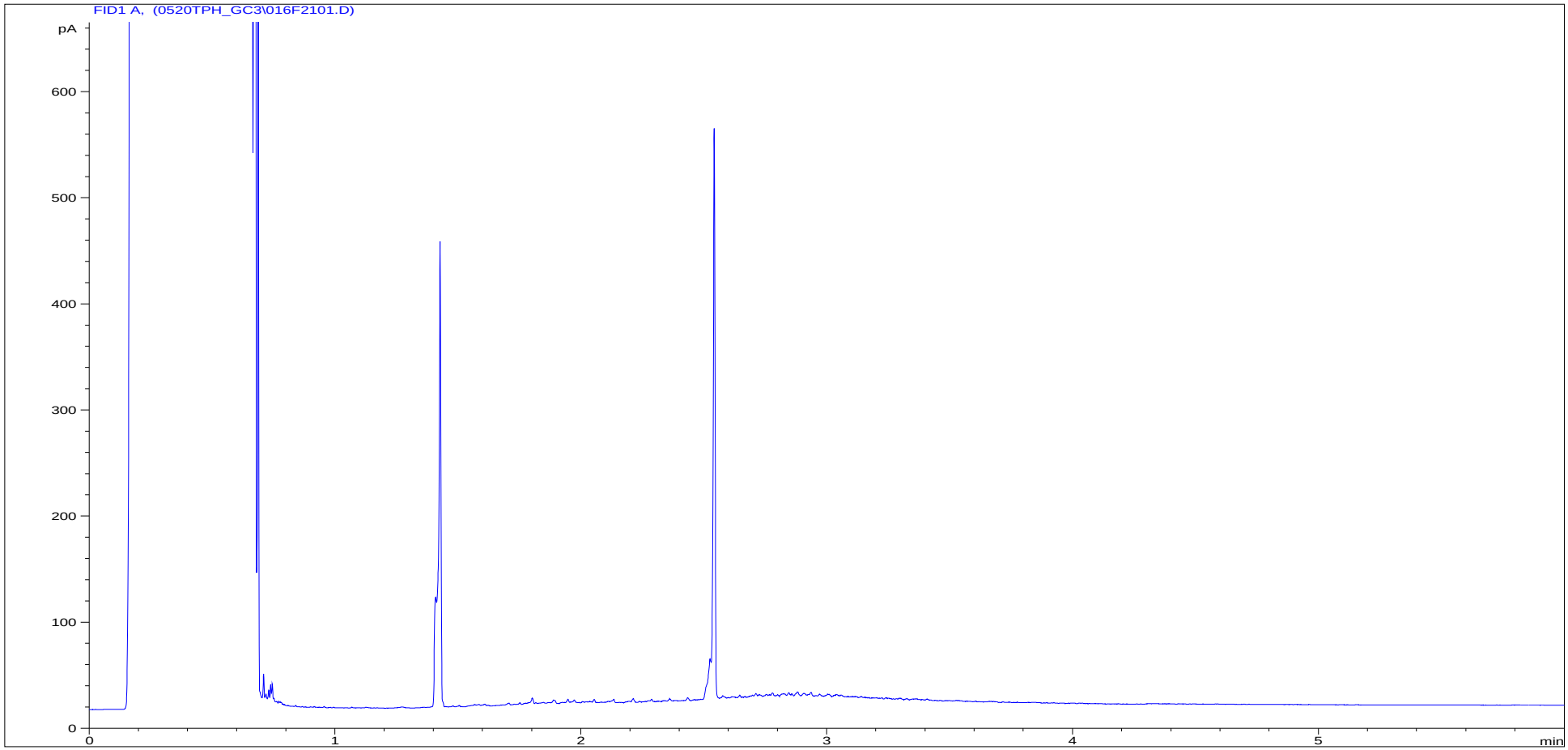
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1118591ARO	**Job Number:**	S11_3985M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423373 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\065B1901.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

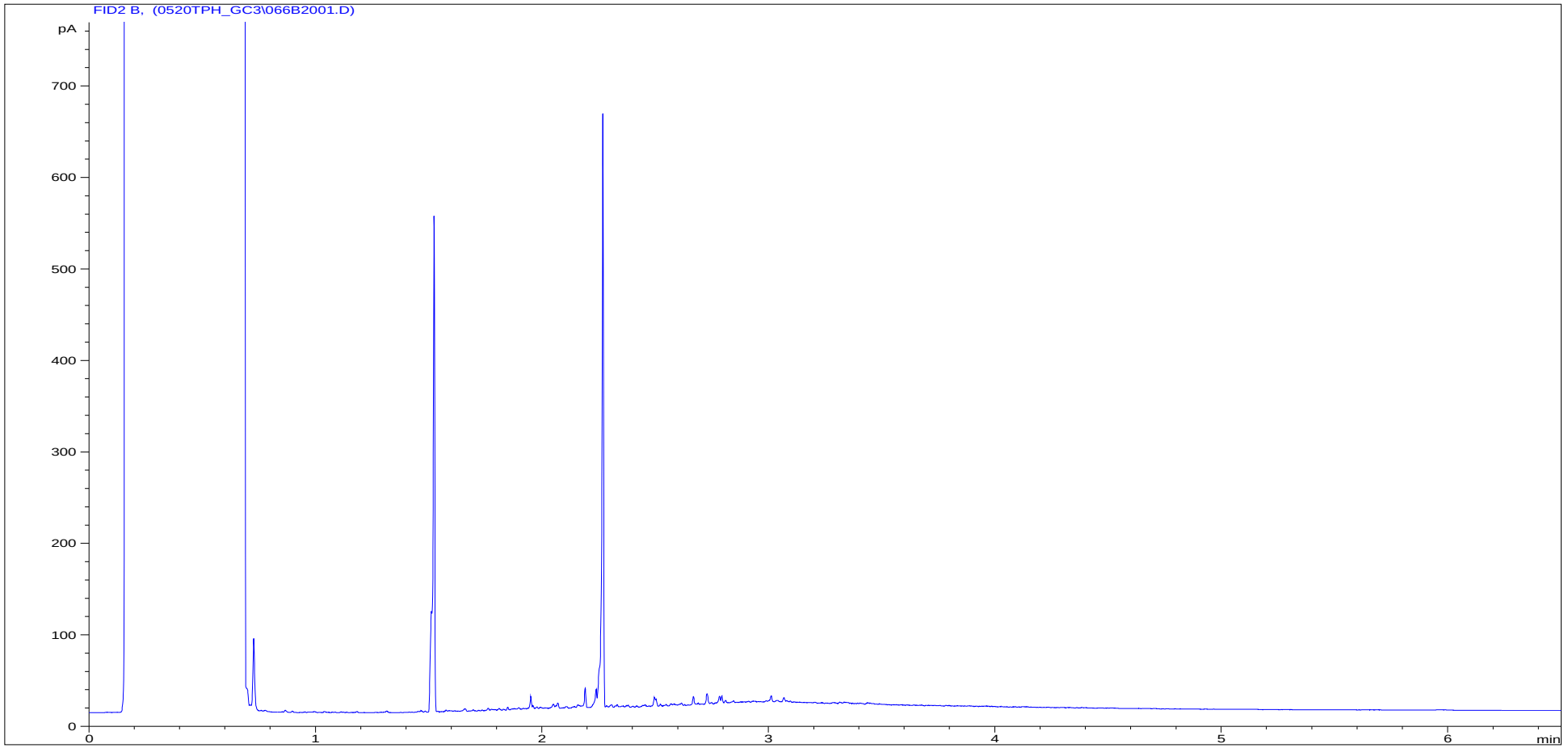
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1118592ALI	**Job Number:**	S11_3985M
Multiplier:	16.38	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423374 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\016F2101.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1118592ARO	**Job Number:**	S11_3985M
Multiplier:	12.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV423374 ES 1 0.20
Acquisition Date/Time:	20-May-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0520TPH_GC3\066B2001.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV423365 ES 1 0.20
LIMS ID Number: CL1118583
Job Number: S11_3985M

Directory/Quant file: 0518VOC.MS3\ Initial Calibration
Date Booked in: 12-May-11
Date Analysed: 19-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 30

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3 *	-	< 28	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	4.37	6	78	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	4.80	7	54	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	5.13	7	67	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	87	D bromofluoromethane	99
1,4-Difluorobenzene	3.34	83	Toluene-d8	95
Chlorobenzene-d5	4.35	76	Bromofluorobenzene	88
1,4-Dichlorobenzene-d4	5.12	61		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV423366 ES 1 0.20
LIMS ID Number: CL1118584
Job Number: S11_3985M

Directory/Quant file: 0523VOC.MS3\ Initial Calibration
Date Booked in: 12-May-11
Date Analysed: 23-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 15

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3 *	-	< 28	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	3.89	8	80	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	4.43	8	75	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	4.80	6	54	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	5.13	7	70	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	84	D bromofluoromethane	103
1,4-Difluorobenzene	3.34	81	Toluene-d8	95
Chlorobenzene-d5	4.36	76	Bromofluorobenzene	90
1,4-Dichlorobenzene-d4	5.12	62		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV423367 ES 1 0.20
LIMS ID Number: CL1118585
Job Number: S11_3985M

Directory/Quant file: 0518VOC.MS3\ Initial Calibration
Date Booked in: 12-May-11
Date Analysed: 20-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 32

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 30	-	N
Chloroethane	75-00-3 *	-	< 30	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 30	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 30	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 30	-	U
Hexachlorobutadiene	87-68-3 *	-	< 30	-	N
Naphthalene	91-20-3 *	-	< 30	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 30	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	60	D bromofluoromethane	79
1,4-Difluorobenzene	3.34	59	Toluene-d8	95
Chlorobenzene-d5	4.36	55	Bromofluorobenzene	83
1,4-Dichlorobenzene-d4	5.12	39		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV423368 ES 1 0.20
LIMS ID Number: CL1118586
Job Number: S11_3985M

Directory/Quant file: 0518VOC.MS3\ Initial Calibration
Date Booked in: 12-May-11
Date Analysed: 20-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 33

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 29	-	N
Chloroethane	75-00-3 *	-	< 29	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 29	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 29	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 29	-	U
Hexachlorobutadiene	87-68-3 *	-	< 29	-	N
Naphthalene	91-20-3 *	-	< 29	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 29	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	86	D bromofluoromethane	100
1,4-Difluorobenzene	3.34	87	Toluene-d8	91
Chlorobenzene-d5	4.36	72	Bromofluorobenzene	81
1,4-Dichlorobenzene-d4	5.12	49		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV423369 ES 1 0.20
LIMS ID Number: CL1118587
Job Number: S11_3985M

Directory/Quant file: 0518VOC.MS3\ Initial Calibration
Date Booked in: 12-May-11
Date Analysed: 20-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 34

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 30	-	N
Chloroethane	75-00-3 *	-	< 30	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 30	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 30	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 30	-	U
Hexachlorobutadiene	87-68-3 *	-	< 30	-	N
Naphthalene	91-20-3 *	-	< 30	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 30	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	88	D bromofluoromethane	49
1,4-Difluorobenzene	3.34	89	Toluene-d8	93
Chlorobenzene-d5	4.36	80	Bromofluorobenzene	86
1,4-Dichlorobenzene-d4	5.12	59		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV423370 ES 1 0.20
LIMS ID Number: CL1118588
Job Number: S11_3985M

Directory/Quant file: 0518VOC.MS3\ Initial Calibration
Date Booked in: 12-May-11
Date Analysed: 20-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 35

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 29	-	N
Chloroethane	75-00-3 *	-	< 29	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 29	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 29	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 29	-	U
Hexachlorobutadiene	87-68-3 *	-	< 29	-	N
Naphthalene	91-20-3 *	-	< 29	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 29	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	77	D bromofluoromethane	79
1,4-Difluorobenzene	3.34	78	Toluene-d8	93
Chlorobenzene-d5	4.36	70	Bromofluorobenzene	82
1,4-Dichlorobenzene-d4	5.12	47		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV423371 ES 1 0.20
LIMS ID Number: CL1118589
Job Number: S11_3985M

Directory/Quant file: 0518VOC.MS3\ Initial Calibration
Date Booked in: 12-May-11
Date Analysed: 20-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 36

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 30	-	N
Chloroethane	75-00-3 *	-	< 30	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 30	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 30	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 30	-	U
Hexachlorobutadiene	87-68-3 *	-	< 30	-	N
Naphthalene	91-20-3 *	-	< 30	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 30	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	84	D bromofluoromethane	80
1,4-Difluorobenzene	3.34	83	Toluene-d8	93
Chlorobenzene-d5	4.36	72	Bromofluorobenzene	80
1,4-Dichlorobenzene-d4	5.12	47		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV423372 ES 1 0.20
LIMS ID Number: CL1118590
Job Number: S11_3985M

Directory/Quant file: 0518VOC.MS3\ Initial Calibration
Date Booked in: 12-May-11
Date Analysed: 20-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 37

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 30	-	N
Chloroethane	75-00-3 *	-	< 30	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 30	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 30	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 30	-	U
Hexachlorobutadiene	87-68-3 *	-	< 30	-	N
Naphthalene	91-20-3 *	-	< 30	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 30	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	88	D bromofluoromethane	77
1,4-Difluorobenzene	3.34	85	Toluene-d8	94
Chlorobenzene-d5	4.36	75	Bromofluorobenzene	82
1,4-Dichlorobenzene-d4	5.12	53		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV423373 ES 1 0.20
LIMS ID Number: CL1118591
Job Number: S11_3985M

Directory/Quant file: 0518VOC.MS3\ Initial Calibration
Date Booked in: 12-May-11
Date Analysed: 20-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 38

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3 *	-	< 28	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	81	D bromofluoromethane	96
1,4-Difluorobenzene	3.34	80	Toluene-d8	94
Chlorobenzene-d5	4.36	68	Bromofluorobenzene	80
1,4-Dichlorobenzene-d4	5.12	46		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV423374 ES 1 0.20
LIMS ID Number: CL1118592
Job Number: S11_3985M

Directory/Quant file: 0518VOC.MS3\ Initial Calibration
Date Booked in: 12-May-11
Date Analysed: 20-May-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 39

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3 *	-	< 28	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	84	D bromofluoromethane	29
1,4-Difluorobenzene	3.34	82	Toluene-d8	93
Chlorobenzene-d5	4.36	70	Bromofluorobenzene	81
1,4-Dichlorobenzene-d4	5.12	48		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

SOIL Analysis

ESG Environmental Chemistry
Analytical and Deviating Sample Overview

S113985

Customer Soil Mechanics
Site Jackson CE, Warm-Up Track, OP
Report No S113985

Consignment No 20733
Date Logged 12-May-2011

Report Due 23-May-2011

ID Number	Description	MethodID	CEN Leachate	CustServ	GROHSA	ICPMSS								MCertS	PAHMSUS	PHEHPLC	TMSS	TPHUSSI	VOCSW8100
		Sampled	CEN Leac(PJC 23/05	Report B	GRO (AA-2012)	Arsenic (MS)	Cadmium (MS)	Chromium (MS)	Copper (MS)	Lead (MS)	Mercury (MS)	Nickel (MS)	Selenium (MS)	Zinc (MS)	MCertS Analysis	PAH by MS.16(0.08)	Phenol - HPLC	Tot.Moisture @ 105C	TPH by GCFID (AR/Si)	VOC
Accredited to ISO17025				✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CL/1118583	JC03b-FVPsamp1-423365 0.2	09/05/11																		
CL/1118584	JC03b-FVPsamp2-423366 0.2	09/05/11																		
CL/1118585	JC03b-FVPsamp2-423367 0.2	09/05/11																		
CL/1118586	JC03b-FVPsamp4-423368 0.2	09/05/11																		
CL/1118587	JC03b-FVPsamp5-423369 0.2	09/05/11																		
CL/1118588	JC03b-FVPsamp6-423370 0.2	09/05/11																		
CL/1118589	JC03b-FVPsamp7-423371 0.2	09/05/11																		
CL/1118590	JC03b-FVPsamp8-423372 0.2	09/05/11																		
CL/1118591	JC03b-FVPsamp9-423373 0.2	09/05/11																		
CL/1118592	JC03b-FVPsamp10-423374 0.2	09/05/11																		

Note: For analysis where the Report Due date is greater than 7 days (Volatiles, PAH, Pesticides, PCB, Phenols, Herbicides) or 2 days (BOD) after the sampling date, although we will do our utmost to prioritise your samples, they may become deviant whilst being processed in the Laboratory.

In this instance, please contact the Laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time

Requested Analysis Key	
	Analysis Required
	Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
	No analysis scheduled
^	Analysis Subcontracted

Where individual results are flagged see report notes for status

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	GROHSA	As Received	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace GCFID
Soil	ICPMSS	Air Dried	Determination of Metals in soil samples by aqua regia digestion followed by ICPMS
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection
Soil	PHEHPLC	As Received	Determination of Phenols by methanol extraction followed by HPLC detection
Soil	TMSS	As Received	Determination of the Total Moisture content at 105ºC by loss on oven drying gravimetric analysis
Soil	TPHUSSI	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions.
Soil	VOCSW8100	As Received	Determination of Volatile Organic Compounds (VOC) by purge and trap followed by GCMS detection

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,
- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,
- Results are expressed as mg/kg
- SG is expressed as g/cm^3@ 15^{o}C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile
CR Denotes Crocidolite
AM Denotes Amosite
NAIIS No Asbestos Identified in Sample

Symbol Reference

^ Sub-contracted analysis. Note: The accreditation status is that assigned by the subcontract laboratory.
$$ Unable to analyse due to the nature of the sample
¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
¥ Results for guidance only due to possible interference
& Blank corrected result
I.S Insufficient sample to complete requested analysis
I.S(g) Insufficient sample to re-analyse, results for guidance only
Intf Unable to analyse due to interferences
N.D Not determined
N.Det Not detected
Req Analysis requested, see attached sheets for results
Þ Raised detection limit due to nature of the sample
***** All accreditation has been removed by the laboratory for this result
‡ MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

END OF REPORT

Sample Descriptions

Client : Soil Mechanics

Site : Jackson CE, Warm-Up Track, OP

Report Number : S11_3985M

Note: major constituent in upper case

Lab ID Number	Client ID	Description
CL/1118583	FV423365 ES 1 0.20	Grey Stone SILT
CL/1118584	FV423366 ES 1 0.20	Grey Stone SILT
CL/1118585	FV423367 ES 1 0.20	Grey Stone SILT
CL/1118586	FV423368 ES 1 0.20	Grey Stone SILT
CL/1118587	FV423369 ES 1 0.20	Grey Stone SILT
CL/1118588	FV423370 ES 1 0.20	Grey Stone SILT
CL/1118589	FV423371 ES 1 0.20	Grey Stone SILT
CL/1118590	FV423372 ES 1 0.20	Grey Stone SILT
CL/1118591	FV423373 ES 1 0.20	Grey Stone SILT
CL/1118592	FV423374 ES 1 0.20	Grey Stone SILT

END OF REPORT

Our Ref: EFS/114391M (Ver. 1)
Your Ref: R1080-11

June 8, 2011

Scientifics
Bretby Business Park
Ashby Road
Burton-on-Trent
Staffordshire
DE15 0YZ

Telephone: 01283 554400
Facsimile: 01283 554422

[redacted]
Environmental Services Group
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

For the attention of [redacted]

Dear [redacted]

SOIL Sample Analysis - Jackson CE, Warm-Up Track, OP

Samples from the above site have been analysed in accordance with the schedule supplied.
The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

The samples will be kept until the agreed date when they will be discarded. Please call [redacted] for an extension of this date.
Please be aware that from 1 January 2003 our policy for the retention of paper based laboratory records and analysis reports will be 6 years.

The work was carried out in accordance with Environmental Scientifics Group Ltd (Scientifics) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for Scientifics

[redacted]

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Registered No: 2880501

TEST REPORT
SOIL SAMPLE ANALYSIS

1252

Report No. EFS/114391M (Ver. 1)

Environmental Services Group
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

Site: Jackson CE, Warm-Up Track, OP

The 20 samples described in this report were logged for analysis by Scientifics on 24-May-2011. This report supersedes any versions previously issued by the laboratory.
The analysis was completed by: 08-Jun-2011

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited
Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics.

The following tables are contained in this report:

On behalf of
Scientifics : [redacted]

Date of Issue: 08-Jun-2011

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)
Tests marked '^' have been subcontracted to another laboratory.
(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.
All results are reported on a dry weight basis at 105^{o}C unless otherwise stated. (except QC samples)
Scientifics accepts no responsibility for any sampling not carried out by our personnel.

Units :		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	ug/kg			
Method Codes :		ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	PAHMSUS	TMSS	TPHUSSI	VOCSW8100			
Method Reporting Limits :		0.3	0.2	1.2	1.6	0.7	0 5	2	0.5	16	0.08	0.2	10.0	5			
Accreditation Code:		UM	UM	UM	UM	UM	UM	UM	UM	UM		U					
Laboratory ID Number CL/	**Client Sample Description**	**Arsenic (MS)**	**Cadmium (MS)**	**Chromium (MS)**	**Copper (MS)**	**Lead (MS)**	**Mercury (MS)**	**Nickel (MS)**	**Selenium (MS)**	**Zinc (MS)**	**PAH by MS.16(0.08)**	**Tot.Moisture @ 105C**	**TPH by GCFID (AR/Si)**	**VOC by GCMS (8100)**			
1120299	FV306587 ESC 1 0.20	11 8	0.33	23.4	64.8	175.9	<0.51	19.7	0.9	145	Req	15.0	Req	Req			
1120300	FV306588 ESC 1 0.20	8.4	0.2	20.1	42.5	88.2	<0.50	15.1	0.6	96.5	Req	9.5	Req	Req			
1120301	FV306589 ESC 1 0.20	8.1	<0.20	19.1	38	109.7	<0.51	15	0.7	97.8	Req	11.9	Req	Req			
1120302	FV306590 ESC 1 0.20	8.8	<0.20	21.7	45.2	245.4	<0.51	16.4	0.8	99	Req	10.9	Req	Req			
1120303	FV306591 ESC 1 0.20	8.3	0.22	19.9	72	103	<0.51	15.1	0.6	92.3	Req	10.1	Req	Req			
1120304	FV306592 ESC 1 0.20	8.8	<0.20	19.5	49.2	121.9	<0.50	16.9	0.8	93.2	Req	6.9	Req	Req			
1120305	FV306593 ESC 1 0.20	11 2	0.27	20.7	164	160	<0.51	16.8	0.7	106.5	Req	10.5	Req	Req			
1120306	FV306594 ESC 1 0.20	8.1	<0.20	20	54.7	81.3	<0.51	15	0.5	78	Req	7.8	Req	Req			
1120307	FV306595 ESC 1 0.20	10.4	0.23	19.1	213.1	84.1	<0.51	16.3	0.8	92	Req	6.7	Req	Req			
1120308	FV306596 ESC 1 0.20	8.8	<0.20	20.4	45	104.5	<0.50	15.7	0.8	96.2	Req	4.4	Req	Req			
1120309	FV306597 ESC 1 0.20	8.7	0.23	24.8	51.1	112.3	<0.52	18	0.8	108.3	Req	8.6	Req	Req			
1120310	FV306598 ESC 1 0.20	8.6	0.22	23	38.4	609.3	<0.51	16.4	0.6	99.1	Req	5.1	Req	Req			
1120311	FV306599 ESC 1 0.20	9.6	0.27	22	53.5	160.4	<0.50	17	0.8	131.4	Req	7.4	Req	Req			
1120312	FV306600 ESC 1 0.20	8.2	0.22	20.1	48	115	<0.51	15.9	0.6	107.3	Req	4.4	Req	Req			
1120313	FV306601 ESC 1 0.20	9.7	<0.20	17.8	52.4	102.8	<0.50	14.1	0.5	77.5	Req	8.1	Req	Req			
1120314	FV306602 ESC 1 0.20	9.5	0.29	21.9	54.1	118.2	<0.50	18.3	0.7	120	Req	8.5	Req	Req			
1120315	FV306603 ESC 1 0.20	8.4	0.21	17.6	49.2	128.9	<0.51	15	0.5	105	Req	6.7	Req	Req			
1120316	FV306604 ESC 1 0.20	9.8	0.3	20.2	1610	350.6	<0.51	36.5	0.7	1004.6	Req	9.9	Req	Req			
1120317	FV306605 ESC 1 0.20	9.1	0.23	19	35.3	57.2	<0.51	19.1	1.4	80.4	Req	8.2	Req	Req			
1120318	FV306606 ESC 1 0.20	9.4	0.3	22.3	63.7	223.2	<0.51	18	<0.5	215.1	Req	8.2	Req	Req			

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Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Soils Sample Analysis

Date Printed	08-Jun-11
Report Number	**EFS/114391M**
Table Number	**1**

Where individual results are flagged see report notes for status.
Resu ts corrected to dry weight at 105ºC where appr opriate, in accordance with the MCERTS standard.

Units :		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg										
Method Codes :		GROHSA	PHEHPLC	PHEHPLC	PHEHPLC	PHEHPLC	PHEHPLC										
Method Reporting Limits :		0.2	0.3	0.3	0.3	0.3	0 3										
Accreditation Code:			UM	U	U	U	U										
Laboratory ID Number CL/	**Client Sample Description**	**GRO (AA-2012)**	**Phenol**	**Cresols**	**Xylenols**	**Trimethylphenols**	**Total Phenols**										
1120299	FV306587 ESC 1 0.20	Req	<0.4	<0.4	<0.4	<0.4	<1.4										
1120300	FV306588 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120301	FV306589 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.4										
1120302	FV306590 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120303	FV306591 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120304	FV306592 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120305	FV306593 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120306	FV306594 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120307	FV306595 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120308	FV306596 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120309	FV306597 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120310	FV306598 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120311	FV306599 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120312	FV306600 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120313	FV306601 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120314	FV306602 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120315	FV306603 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120316	FV306604 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120317	FV306605 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										
1120318	FV306606 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										

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Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Soils Sample Analysis

Date Printed	08-Jun-11
Report Number	**EFS/114391M**
Table Number	**1**

Where individual results are flagged see report notes for status.
Resu ts corrected to dry weight at 105ºC where appr opriate, in accordance with the MCERTS standard.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306587 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120299	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.52	0.42	100	UM
Anthracene	120-12-7	5.57	0.14	99	U
Fluoranthene	206-44-0	6.82	0.80	80	UM
Pyrene	129-00-0	7.10	0.69	98	UM
Benzo[a]anthracene	56-55-3	8.76	0.45	94	UM
Chrysene	218-01-9	8.81	0.42	96	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.55	73	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.18	74	UM
Benzo[a]pyrene	50-32-8	10.70	0.48	61	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.38	68	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.36	0.38	63	UM
Total (USEPA16) PAHs	-	-	< 5.36	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	94
Acenaphthene-d10	93
Phenanthrene-d10	94
Chrysene-d12	98
Perylene-d12	109

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	88
Terphenyl-d14	90

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306588 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120300	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.52	0.52	99	UM
Anthracene	120-12-7	5.57	0.18	98	U
Fluoranthene	206-44-0	6.82	0.90	81	UM
Pyrene	129-00-0	7.10	0.74	98	UM
Benzo[a]anthracene	56-55-3	8.76	0.43	94	UM
Chrysene	218-01-9	8.81	0.40	96	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.53	72	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.19	73	UM
Benzo[a]pyrene	50-32-8	10.70	0.40	95	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.35	88	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.32	73	UM
Total (USEPA16) PAHs	-	-	< 5.44	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	103
Acenaphthene-d10	100
Phenanthrene-d10	104
Chrysene-d12	114
Perylene-d12	129

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	91
Terphenyl-d14	95

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306589 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120301	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.17	0.10	91	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.52	0.47	99	UM
Anthracene	120-12-7	5.57	0.15	94	U
Fluoranthene	206-44-0	6.82	0.82	96	UM
Pyrene	129-00-0	7.10	0.69	80	UM
Benzo[a]anthracene	56-55-3	8.76	0.41	98	UM
Chrysene	218-01-9	8.81	0.39	96	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.49	78	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.15	78	UM
Benzo[a]pyrene	50-32-8	10.70	0.36	73	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.28	92	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.27	98	UM
Total (USEPA16) PAHs	-	-	< 4.95	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	101
Acenaphthene-d10	99
Phenanthrene-d10	101
Chrysene-d12	108
Perylene-d12	122

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	87
Terphenyl-d14	90

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306590 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120302	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.18	0.09	76	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	4.33	0.13	88	UM
Fluorene	86-73-7	4.71	0.10	94	UM
Phenanthrene	85-01-8	5.52	0.72	100	UM
Anthracene	120-12-7	5.57	0.30	96	U
Fluoranthene	206-44-0	6.82	1.44	97	UM
Pyrene	129-00-0	7.10	1.25	81	UM
Benzo[a]anthracene	56-55-3	8.76	0.63	95	UM
Chrysene	218-01-9	8.81	0.61	99	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.75	70	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.25	71	UM
Benzo[a]pyrene	50-32-8	10.70	0.70	98	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.53	97	UM
Dibenzo[a,h]anthracene	53-70-3	12.10	0.10	83	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.52	97	UM
Total (USEPA16) PAHs	-	-	< 8.18	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	103
Acenaphthene-d10	99
Phenanthrene-d10	103
Chrysene-d12	115
Perylene-d12	135

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	81
Terphenyl-d14	86

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306591 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120303	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.52	0.50	100	UM
Anthracene	120-12-7	5.57	0.43	95	U
Fluoranthene	206-44-0	6.82	1.06	97	UM
Pyrene	129-00-0	7.10	0.96	77	UM
Benzo[a]anthracene	56-55-3	8.76	0.53	94	UM
Chrysene	218-01-9	8.81	0.51	97	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.63	52	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.24	67	UM
Benzo[a]pyrene	50-32-8	10.70	0.52	96	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.42	73	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.40	86	UM
Total (USEPA16) PAHs	-	-	< 6.66	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	98
Acenaphthene-d10	100
Phenanthrene-d10	104
Chrysene-d12	113
Perylene-d12	130

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	86
Terphenyl-d14	90

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306592 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120304	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.18	0.10	90	**UM**
Acenaphthylene	208-96-8	4.22	0.10	81	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	4.70	0.10	64	UM
Phenanthrene	85-01-8	5.52	0.82	99	UM
Anthracene	120-12-7	5.57	0.26	97	U
Fluoranthene	206-44-0	6.82	1.53	82	UM
Pyrene	129-00-0	7.10	1.43	98	UM
Benzo[a]anthracene	56-55-3	8.76	0.88	94	UM
Chrysene	218-01-9	8.81	0.79	97	UM
Benzo[b]fluoranthene	205-99-2	10.27	1.04	74	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.38	74	UM
Benzo[a]pyrene	50-32-8	10.70	1.04	80	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.06	0.67	93	UM
Dibenzo[a,h]anthracene	53-70-3	12.09	0.15	88	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.68	96	UM
Total (USEPA16) PAHs	-	-	< 10.05	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	97
Acenaphthene-d10	95
Phenanthrene-d10	96
Chrysene-d12	100
Perylene-d12	115

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	91
Terphenyl-d14	91

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306593 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120305	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.52	0.65	99	UM
Anthracene	120-12-7	5.57	0.21	95	U
Fluoranthene	206-44-0	6.82	1.11	77	UM
Pyrene	129-00-0	7.10	0.93	78	UM
Benzo[a]anthracene	56-55-3	8.76	0.54	95	UM
Chrysene	218-01-9	8.81	0.50	92	UM
Benzo[b]fluoranthene	205-99-2	10.27	0.64	76	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.23	77	UM
Benzo[a]pyrene	50-32-8	10.70	0.53	80	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.41	85	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.38	85	UM
Total (USEPA16) PAHs	-	-	< 6.57	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	102
Acenaphthene-d10	100
Phenanthrene-d10	103
Chrysene-d12	112
Perylene-d12	132

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	93
Terphenyl-d14	97

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306594 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120306	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.52	0.46	100	UM
Anthracene	120-12-7	5.57	0.15	96	U
Fluoranthene	206-44-0	6.82	0.84	97	UM
Pyrene	129-00-0	7.10	0.72	98	UM
Benzo[a]anthracene	56-55-3	8.76	0.40	95	UM
Chrysene	218-01-9	8.81	0.38	98	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.47	96	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.17	97	UM
Benzo[a]pyrene	50-32-8	10.70	0.40	93	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.30	76	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.30	75	UM
Total (USEPA16) PAHs	-	-	< 5.04	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	111
Acenaphthene-d10	109
Phenanthrene-d10	114
Chrysene-d12	129
Perylene-d12	154

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	92
Terphenyl-d14	97

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306595 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120307	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	4.33	0.10	96	UM
Fluorene	86-73-7	4.71	0.10	50	UM
Phenanthrene	85-01-8	5.52	0.91	99	UM
Anthracene	120-12-7	5.57	0.20	94	U
Fluoranthene	206-44-0	6.82	1.31	83	UM
Pyrene	129-00-0	7.10	1.00	77	UM
Benzo[a]anthracene	56-55-3	8.76	0.56	83	UM
Chrysene	218-01-9	8.81	0.50	91	UM
Benzo[b]fluoranthene	205-99-2	10.27	0.60	64	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.20	64	UM
Benzo[a]pyrene	50-32-8	10.70	0.55	86	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.06	0.42	73	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.38	93	UM
Total (USEPA16) PAHs	-	-	< 7.23	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	104
Acenaphthene-d10	102
Phenanthrene-d10	106
Chrysene-d12	117
Perylene-d12	138

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	87
Terphenyl-d14	90

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306596 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120308	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.08	-	**UM**
Acenaphthylene	208-96-8	-	< 0.08	-	U
Acenaphthene	83-32-9	-	< 0.08	-	UM
Fluorene	86-73-7	-	< 0.08	-	UM
Phenanthrene	85-01-8	5.52	0.58	99	UM
Anthracene	120-12-7	5.57	0.18	97	U
Fluoranthene	206-44-0	6.82	0.95	78	UM
Pyrene	129-00-0	7.10	0.81	98	UM
Benzo[a]anthracene	56-55-3	8.76	0.46	92	UM
Chrysene	218-01-9	8.81	0.40	96	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.58	88	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.20	93	UM
Benzo[a]pyrene	50-32-8	10.70	0.50	90	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.38	77	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.08	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.35	98	UM
Total (USEPA16) PAHs	-	-	< 5.81	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	102
Acenaphthene-d10	102
Phenanthrene-d10	106
Chrysene-d12	113
Perylene-d12	132

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	83
Terphenyl-d14	85

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306597 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120309	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.52	0.32	99	UM
Anthracene	120-12-7	5.57	0.13	99	U
Fluoranthene	206-44-0	6.82	0.63	79	UM
Pyrene	129-00-0	7.10	0.68	80	UM
Benzo[a]anthracene	56-55-3	8.76	0.42	96	UM
Chrysene	218-01-9	8.81	0.43	99	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.49	89	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.16	90	UM
Benzo[a]pyrene	50-32-8	10.70	0.51	88	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.06	0.35	68	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.36	0.39	97	UM
Total (USEPA16) PAHs	-	-	< 4.96	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	108
Acenaphthene-d10	107
Phenanthrene-d10	112
Chrysene-d12	129
Perylene-d12	156

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	86
Terphenyl-d14	91

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306598 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120310	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.08	-	**UM**
Acenaphthylene	208-96-8	-	< 0.08	-	U
Acenaphthene	83-32-9	-	< 0.08	-	UM
Fluorene	86-73-7	-	< 0.08	-	UM
Phenanthrene	85-01-8	5.52	0.34	98	UM
Anthracene	120-12-7	5.57	0.14	97	U
Fluoranthene	206-44-0	6.82	0.72	82	UM
Pyrene	129-00-0	7.10	0.60	98	UM
Benzo[a]anthracene	56-55-3	8.76	0.35	93	UM
Chrysene	218-01-9	8.81	0.30	98	UM
Benzo[b]fluoranthene	205-99-2	10.27	0.40	87	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.15	88	UM
Benzo[a]pyrene	50-32-8	10.70	0.35	88	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.27	91	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.08	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.24	88	UM
Total (USEPA16) PAHs	-	-	< 4.29	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	99
Acenaphthene-d10	102
Phenanthrene-d10	106
Chrysene-d12	116
Perylene-d12	136

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	90
Terphenyl-d14	93

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306599 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120311	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	4.33	0.13	98	UM
Fluorene	86-73-7	4.71	0.09	M	UM
Phenanthrene	85-01-8	5.52	0.70	98	UM
Anthracene	120-12-7	5.57	0.19	97	U
Fluoranthene	206-44-0	6.82	0.94	96	UM
Pyrene	129-00-0	7.10	0.81	98	UM
Benzo[a]anthracene	56-55-3	8.76	0.45	93	UM
Chrysene	218-01-9	8.81	0.44	97	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.53	78	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.18	78	UM
Benzo[a]pyrene	50-32-8	10.70	0.46	88	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.06	0.33	88	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.30	99	UM
Total (USEPA16) PAHs	-	-	< 5.80	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	112
Acenaphthene-d10	109
Phenanthrene-d10	114
Chrysene-d12	131
Perylene-d12	156

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	90
Terphenyl-d14	95

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306600 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120312	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.08	-	**UM**
Acenaphthylene	208-96-8	-	< 0.08	-	U
Acenaphthene	83-32-9	-	< 0.08	-	UM
Fluorene	86-73-7	-	< 0.08	-	UM
Phenanthrene	85-01-8	5.52	0.56	99	UM
Anthracene	120-12-7	5.57	0.18	99	U
Fluoranthene	206-44-0	6.82	1.06	79	UM
Pyrene	129-00-0	7.10	0.88	98	UM
Benzo[a]anthracene	56-55-3	8.76	0.51	94	UM
Chrysene	218-01-9	8.81	0.48	99	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.64	75	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.22	76	UM
Benzo[a]pyrene	50-32-8	10.70	0.51	80	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.40	96	UM
Dibenzo[a,h]anthracene	53-70-3	12.10	0.08	91	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.38	87	UM
Total (USEPA16) PAHs	-	-	< 6.26	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	108
Acenaphthene-d10	106
Phenanthrene-d10	112
Chrysene-d12	128
Perylene-d12	150

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	90
Terphenyl-d14	96

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306601 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120313	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	4.22	0.09	98	U
Acenaphthene	83-32-9	4.33	0.24	97	UM
Fluorene	86-73-7	4.71	0.17	94	UM
Phenanthrene	85-01-8	5.52	1.59	100	UM
Anthracene	120-12-7	5.57	0.49	99	U
Fluoranthene	206-44-0	6.82	2.30	98	UM
Pyrene	129-00-0	7.10	1.86	99	UM
Benzo[a]anthracene	56-55-3	8.76	0.90	96	UM
Chrysene	218-01-9	8.81	0.81	98	UM
Benzo[b]fluoranthene	205-99-2	10.27	0.90	78	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.32	78	UM
Benzo[a]pyrene	50-32-8	10.70	0.82	93	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.06	0.55	99	UM
Dibenzo[a,h]anthracene	53-70-3	12.10	0.12	84	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.52	96	UM
Total (USEPA16) PAHs	-	-	< 11.76	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	107
Acenaphthene-d10	105
Phenanthrene-d10	111
Chrysene-d12	128
Perylene-d12	150

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	87
Terphenyl-d14	92

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306602 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120314	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	4.22	0.31	98	U
Acenaphthene	83-32-9	4.33	0.17	98	UM
Fluorene	86-73-7	4.71	0.21	98	UM
Phenanthrene	85-01-8	5.52	3.01	100	UM
Anthracene	120-12-7	5.57	0.93	97	U
Fluoranthene	206-44-0	6.82	5.73	97	UM
Pyrene	129-00-0	7.10	4.42	98	UM
Benzo[a]anthracene	56-55-3	8.76	2.36	97	UM
Chrysene	218-01-9	8.81	1.92	99	UM
Benzo[b]fluoranthene	205-99-2	10.27	2.28	77	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.82	78	UM
Benzo[a]pyrene	50-32-8	10.70	2.10	99	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.06	1.43	97	UM
Dibenzo[a,h]anthracene	53-70-3	12.10	0.28	92	UM
Benzo[g,h,i]perylene	191-24-2	12.35	1.21	97	UM
Total (USEPA16) PAHs	-	-	< 27.27	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	111
Acenaphthene-d10	110
Phenanthrene-d10	116
Chrysene-d12	136
Perylene-d12	160

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	87
Terphenyl-d14	92

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306603 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120315	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.17	0.10	76	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.52	0.62	99	UM
Anthracene	120-12-7	5.57	0.27	99	U
Fluoranthene	206-44-0	6.82	1.48	80	UM
Pyrene	129-00-0	7.10	1.28	82	UM
Benzo[a]anthracene	56-55-3	8.76	0.80	96	UM
Chrysene	218-01-9	8.81	0.68	98	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.90	91	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.31	61	UM
Benzo[a]pyrene	50-32-8	10.70	0.76	92	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.56	99	UM
Dibenzo[a,h]anthracene	53-70-3	12.10	0.12	76	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.50	97	UM
Total (USEPA16) PAHs	-	-	< 8.53	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	104
Acenaphthene-d10	101
Phenanthrene-d10	105
Chrysene-d12	116
Perylene-d12	140

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	90
Terphenyl-d14	93

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306604 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120316	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	4.22	0.10	84	U
Acenaphthene	83-32-9	4.33	0.17	93	UM
Fluorene	86-73-7	4.71	0.13	92	UM
Phenanthrene	85-01-8	5.52	1.00	99	UM
Anthracene	120-12-7	5.57	0.34	97	U
Fluoranthene	206-44-0	6.82	1.76	79	UM
Pyrene	129-00-0	7.10	1.52	81	UM
Benzo[a]anthracene	56-55-3	8.76	0.87	93	UM
Chrysene	218-01-9	8.81	0.79	98	UM
Benzo[b]fluoranthene	205-99-2	10.27	1.03	91	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.37	92	UM
Benzo[a]pyrene	50-32-8	10.70	0.93	92	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.06	0.68	94	UM
Dibenzo[a,h]anthracene	53-70-3	12.10	0.13	88	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.62	96	UM
Total (USEPA16) PAHs	-	-	< 10.53	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	106
Acenaphthene-d10	105
Phenanthrene-d10	110
Chrysene-d12	122
Perylene-d12	143

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	90
Terphenyl-d14	94

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306605 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120317	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.52	0.40	99	UM
Anthracene	120-12-7	5.57	0.13	93	U
Fluoranthene	206-44-0	6.82	0.72	75	UM
Pyrene	129-00-0	7.10	0.63	98	UM
Benzo[a]anthracene	56-55-3	8.76	0.38	94	UM
Chrysene	218-01-9	8.81	0.34	95	UM
Benzo[b]fluoranthene	205-99-2	10.28	0.40	74	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.16	74	UM
Benzo[a]pyrene	50-32-8	10.70	0.37	93	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.07	0.29	72	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.27	96	UM
Total (USEPA16) PAHs	-	-	< 4.60	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	106
Acenaphthene-d10	104
Phenanthrene-d10	109
Chrysene-d12	120
Perylene-d12	143

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	86
Terphenyl-d14	90

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306606 ESC 1 0.20	**Job Number:**	S11_4391M
LIMS ID Number:	CL1120318	**Date Booked in:**	24-May-11
QC Batch Number:	111159	**Date Extracted:**	01-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	01-Jun-11
Directory:	601PAH.MS10\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	3.18	0.12	87	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	4.34	0.09	98	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.52	0.70	100	UM
Anthracene	120-12-7	5.57	0.25	98	U
Fluoranthene	206-44-0	6.82	1.17	85	UM
Pyrene	129-00-0	7.10	0.95	98	UM
Benzo[a]anthracene	56-55-3	8.76	0.50	94	UM
Chrysene	218-01-9	8.81	0.47	98	UM
Benzo[b]fluoranthene	205-99-2	10.27	0.57	75	UM
Benzo[k]fluoranthene	207-08-9	10.31	0.19	75	UM
Benzo[a]pyrene	50-32-8	10.70	0.49	90	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.06	0.37	92	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	12.35	0.35	85	UM
Total (USEPA16) PAHs	-	-	< 6.42	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	112
Acenaphthene-d10	110
Phenanthrene-d10	117
Chrysene-d12	133
Perylene-d12	158

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	88
Terphenyl-d14	92

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Gasoline Range Organics
(BTEX and Aromatic/Aliphatic Carbon Ranges)

Customer and Site Details: Soil Mechanics : Jackson CE, Warm-Up Track, OP
Job Number: s11_4391
Directory: D:\TES\DATA\Y2011\0602HSA_GC9\060211 2011-06-02 09-06-51\060F6001.D
Method: HEADSPACE GCFID
Accreditation Code: N

Matrix: Soil
Date Booked in: 24-May-11
Date extracted: 02-Jun-11
Date Analysed: 03-Jun-11, 03:51:44
Units: mg/kg

			Aromatics		Aliphatics		GRO	
Sample ID	Client ID		C5 - C7	>C7 - C8	C5 - C6	>C6 - C8	C8-C10	C5 - C10
*	CL1120299	FV306587 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120300	FV306588 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120301	FV306589 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120302	FV306590 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120303	FV306591 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120304	FV306592 ESC 1 0.20	<0.01	0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120305	FV306593 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120306	FV306594 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120307	FV306595 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120308	FV306596 ESC 1 0.20	<0.01	0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120309	FV306597 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120310	FV306598 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120311	FV306599 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120312	FV306600 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120313	FV306601 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120314	FV306602 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120315	FV306603 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120316	FV306604 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2
*	CL1120317	FV306605 ESC 1 0.20	<0.01	<0.01	<0.2	<0.2	<0.2	<0.2

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

ALIPHATIC / AROMATIC FRACTION BY GC/FID

Customer and Site Details: Soil Mechanics : Jackson CE, Warm-Up Track, OP
Job Number: S11_4391
QC Batch Number: 111159
Directory: D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\075B3901.D
Method: Ultra Sonic

Separation: Silica gel
Eluents: Hexane, DCM

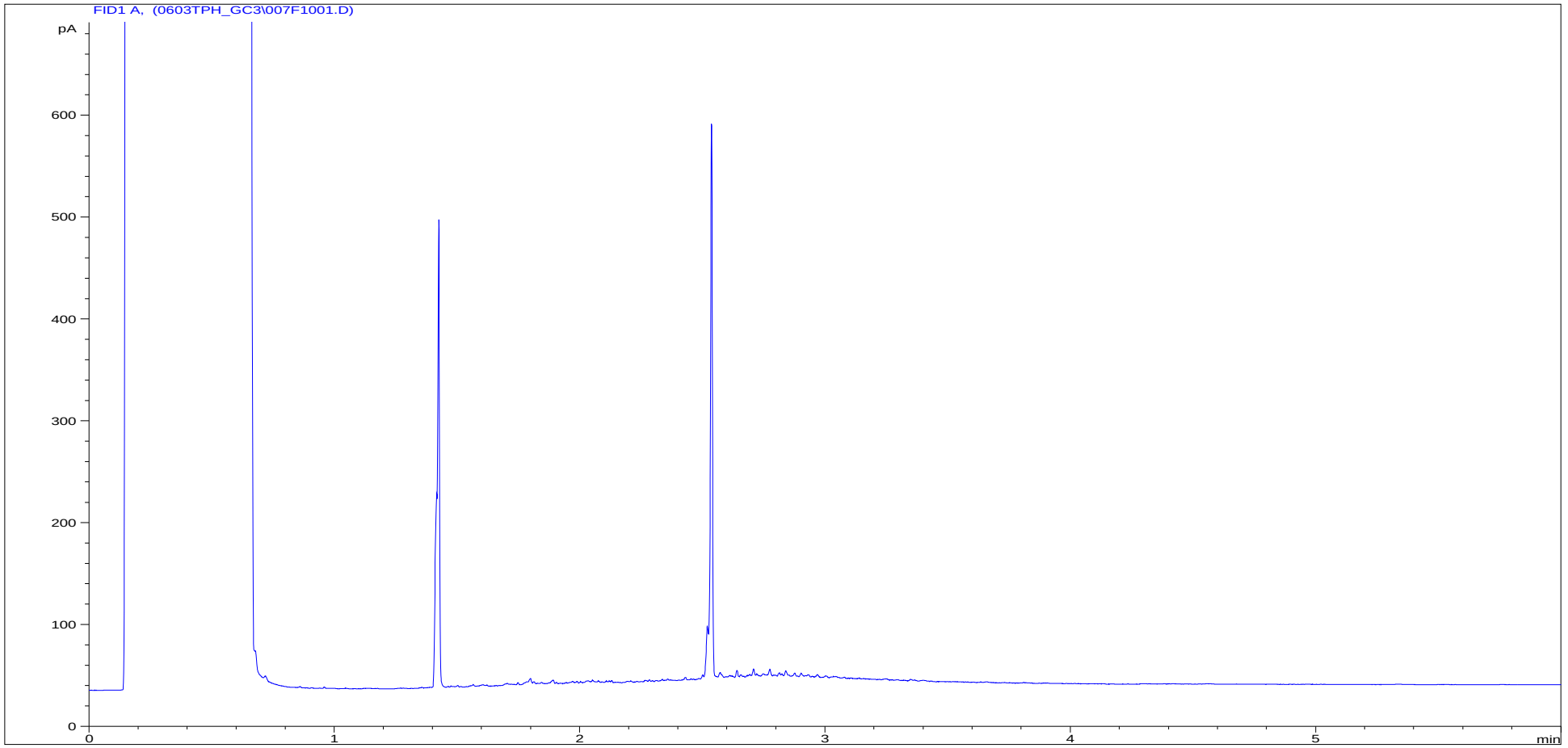
Matrix: Soil
Date Booked in 24-May-11
Date Extracted 01-Jun-11
Date Analysed: 03-Jun-11

This sample data is not MCERTS accredited.
*** This sample data is not ISO17025 accredited.**

		Concentration, (mg/kg) - as dry weight.											
		>C8 - C10		>C10 - C12		>C12 - C16		>C16 - C21		>C21 - C35		>C8 - C40	
Sample ID	**Client ID**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**
CL1120299	FV306587 ESC 1 0.20	<5	<5	<5	<5	7.2	<5	21.8	14.7	80.4	61.1	131	99.4
CL1120300	FV306588 ESC 1 0.20	<4	<4	<4	<4	<4	<4	16.5	11.4	77	55 8	123	94.8
CL1120301	FV306589 ESC 1 0.20	<5	<5	<5	<5	<5	<5	15.1	12.4	89.9	65	129	102.7
CL1120302	FV306590 ESC 1 0.20	<4	<4	<4	<4	4.58	4.5	19.8	16.7	113	100	171	164
CL1120303	FV306591 ESC 1 0.20	<4.7	<4	<4.7	<4	7.03	4	25.3	16.2	106.5	91 8	179	158
CL1120304	FV306592 ESC 1 0.20	<4	<4	<4	<4	<4	<4	16.5	16.4	81.7	94.4	129	150
CL1120305	FV306593 ESC 1 0.20	<4	<4	<4	<4	6.06	<4	20.6	15	98.1	81 9	158	136
CL1120306	FV306594 ESC 1 0.20	<4	<4	<4	<4	<4	<4	17	12.8	91.3	68.1	142	114
CL1120307	FV306595 ESC 1 0.20	<4	<4	<4	<4	<4	<4	18.6	13.8	83.3	79 5	138	134
CL1120308	FV306596 ESC 1 0.20	<4	<4	<4	<4	<4	<4	16.6	11.4	79.4	65 5	122	102.6
CL1120309	FV306597 ESC 1 0.20	<4	<4	<4	<4	4.68	<4	23.6	16.8	317	282	467	431
CL1120310	FV306598 ESC 1 0.20	<4	<4	<4	<4	<4	<4	14.4	9.18	69.7	58.4	113	92.8
CL1120311	FV306599 ESC 1 0.20	<4	<4	<4	<4	<4	<4	22	16.4	106.2	112	176	193
CL1120312	FV306600 ESC 1 0.20	<4	<4	<4	<4	4.63	<4	22.8	15	92.4	74 5	146	121
CL1120313	FV306601 ESC 1 0.20	<4	<4	<4	<4	10	6 39	34.2	33.4	111	128	230	287
CL1120314	FV306602 ESC 1 0.20	<4.47	<4	<4.47	<4	6.87	9 56	26.3	34.9	168	188	259	301
CL1120315	FV306603 ESC 1 0.20	<4	<4	<4	<4	<4	<4	17	14.1	90.4	89 2	139	140
CL1120316	FV306604 ESC 1 0.20	<4	<4	<4	<4	<4	<4	16.4	16.2	99.7	105.5	158	173
CL1120317	FV306605 ESC 1 0.20	<4	<4	<4	<4	<4	4 98	16.8	12.3	65	59 8	102.1	97.8
CL1120318	FV306606 ESC 1 0.20	<4	<4	<4	<4	5.63	6 08	21.6	18.3	91.8	85 5	150	147

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

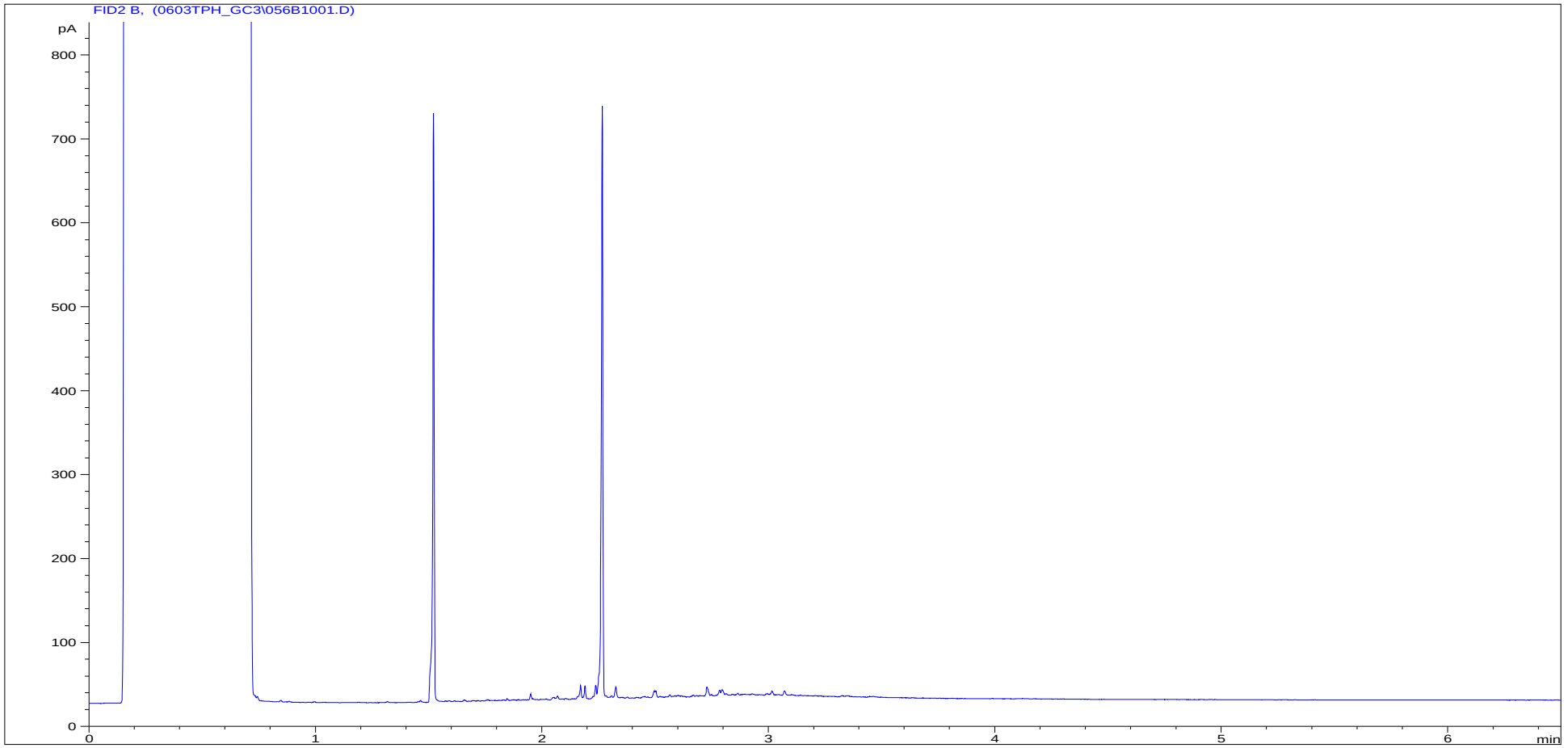
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120299ALI	**Job Number:**	S11_4391M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306587 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\007F1001.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

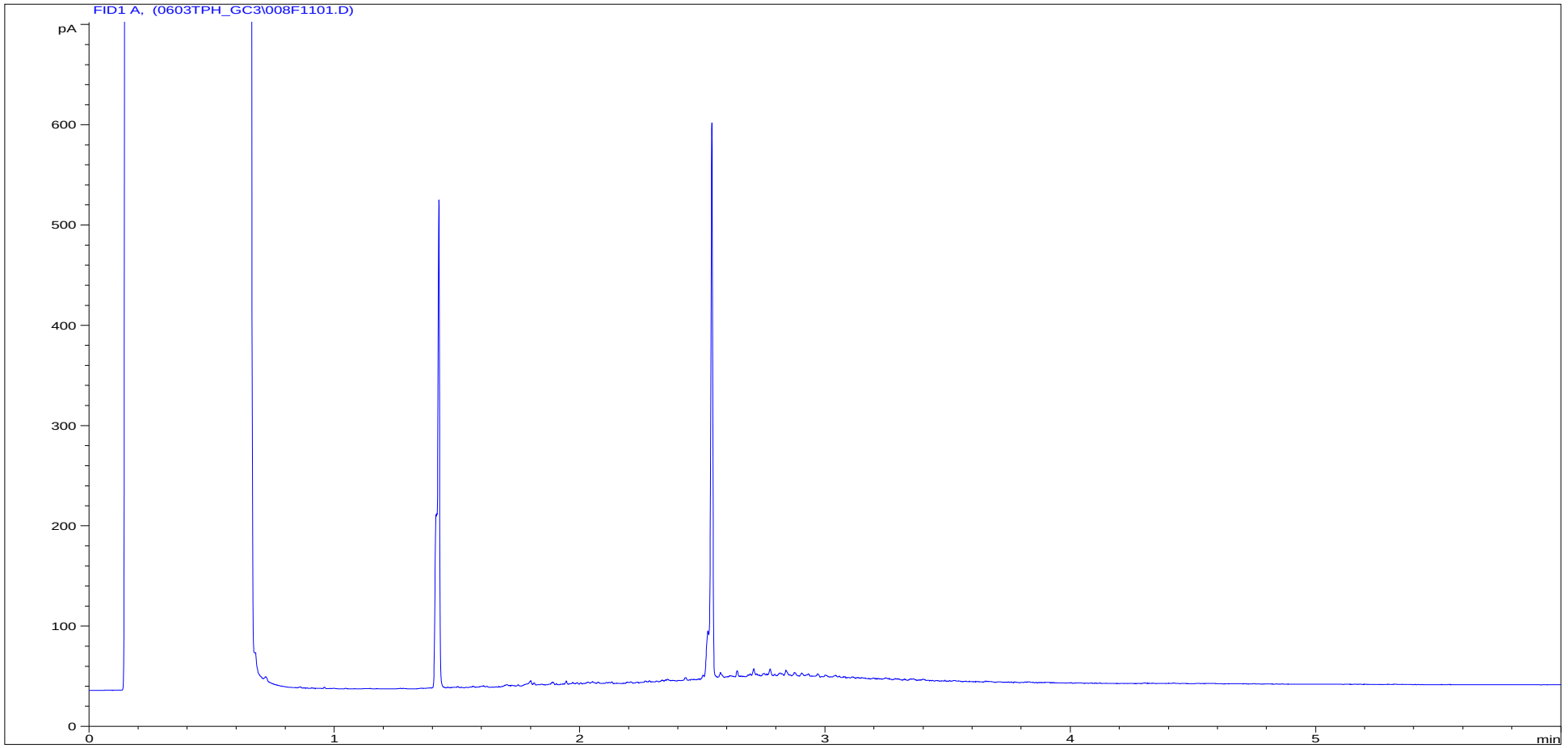
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120299ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306587 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\056B1001.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

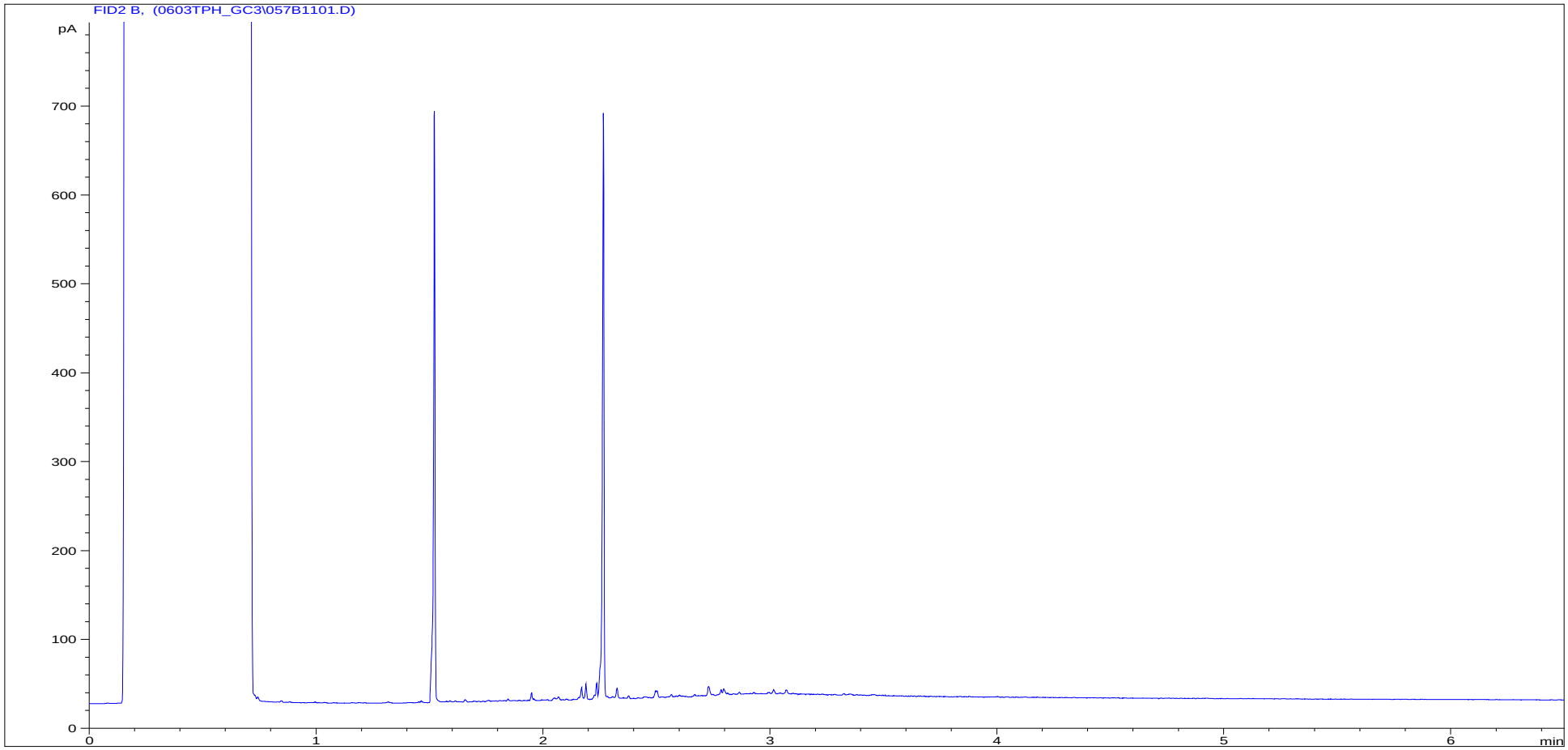
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120300ALI	**Job Number:**	S11_4391M
Multiplier:	14.44	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306588 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\008F1101.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

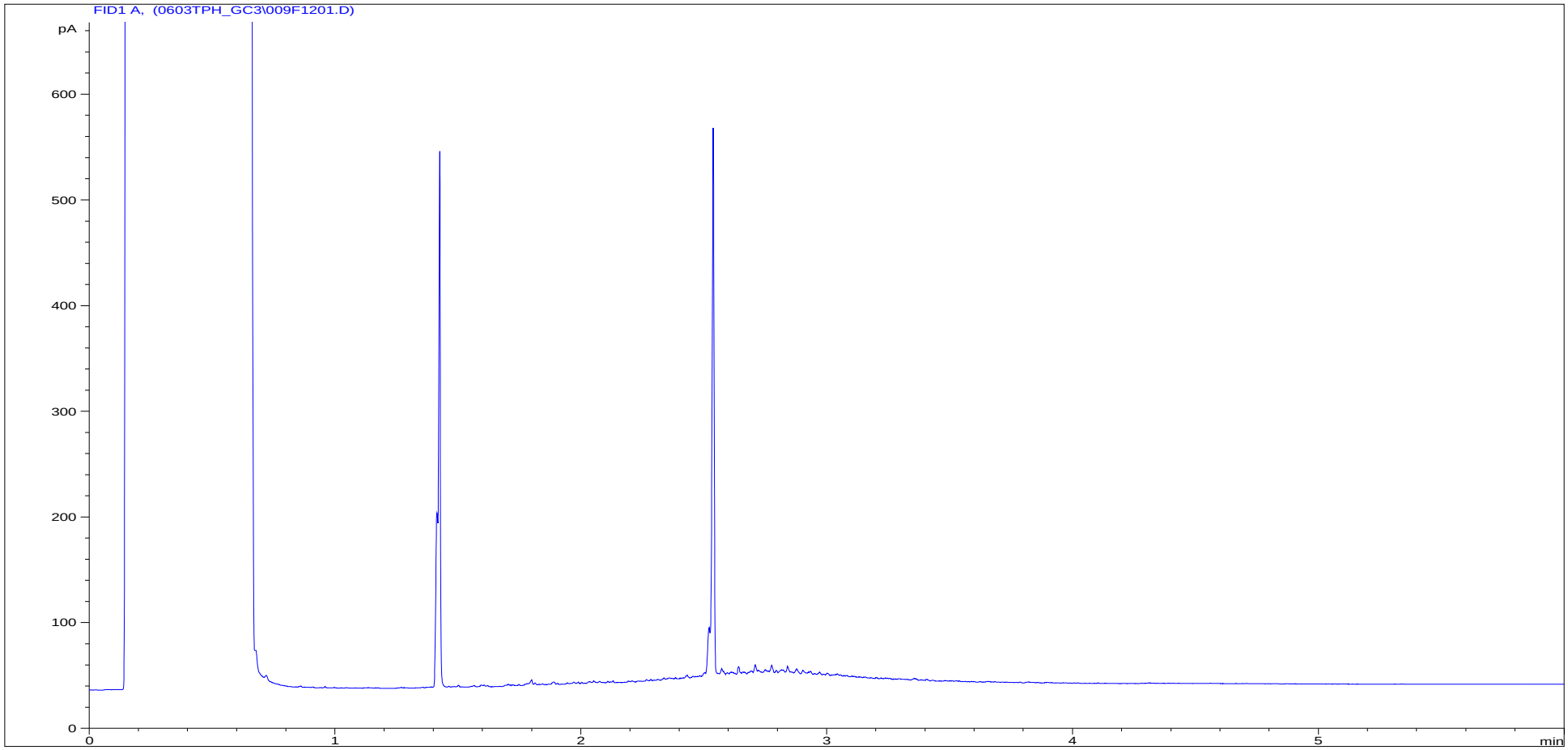
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120300ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306588 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\057B1101.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

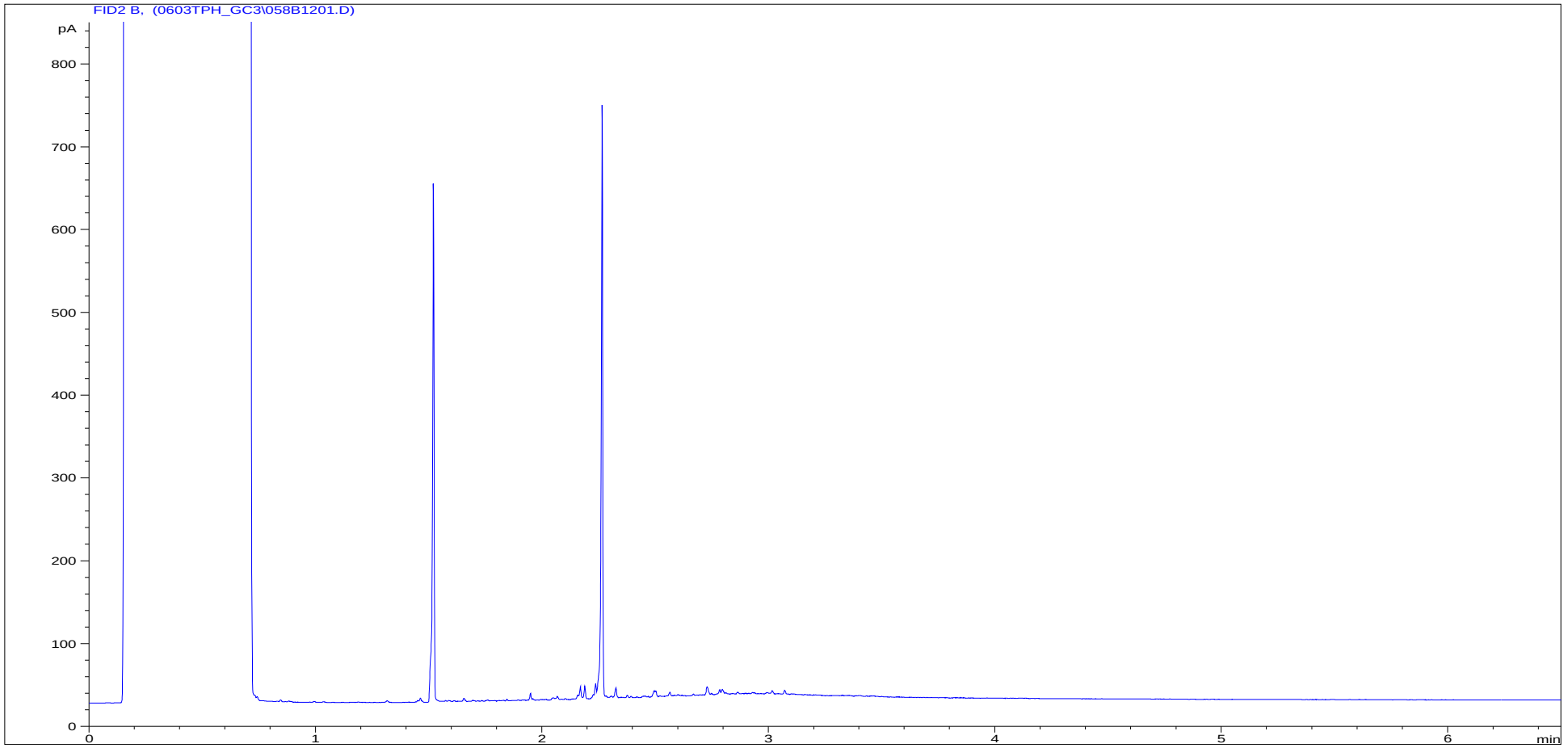
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120301ALI	**Job Number:**	S11_4391M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306589 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\009F1201.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

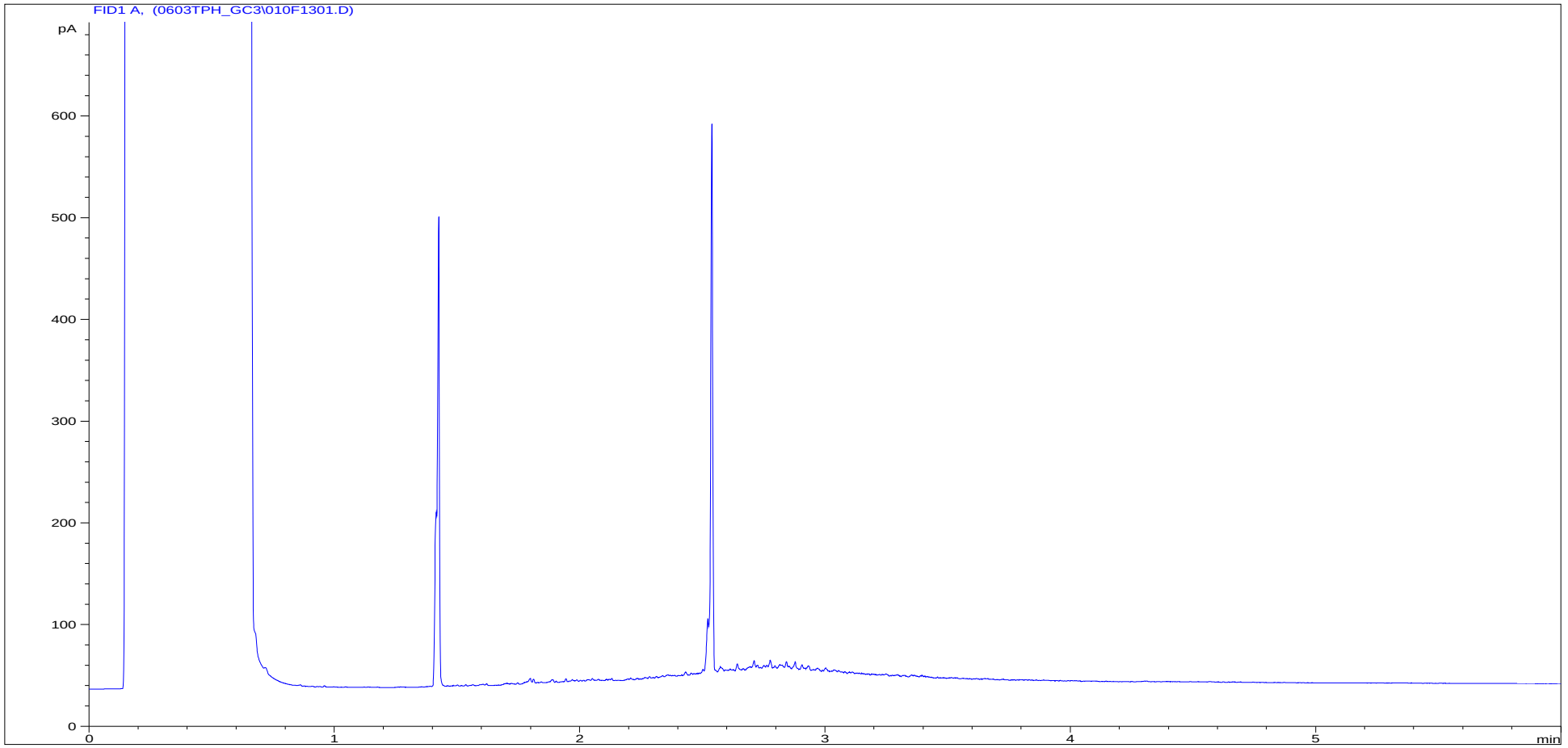
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120301ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306589 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\058B1201.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

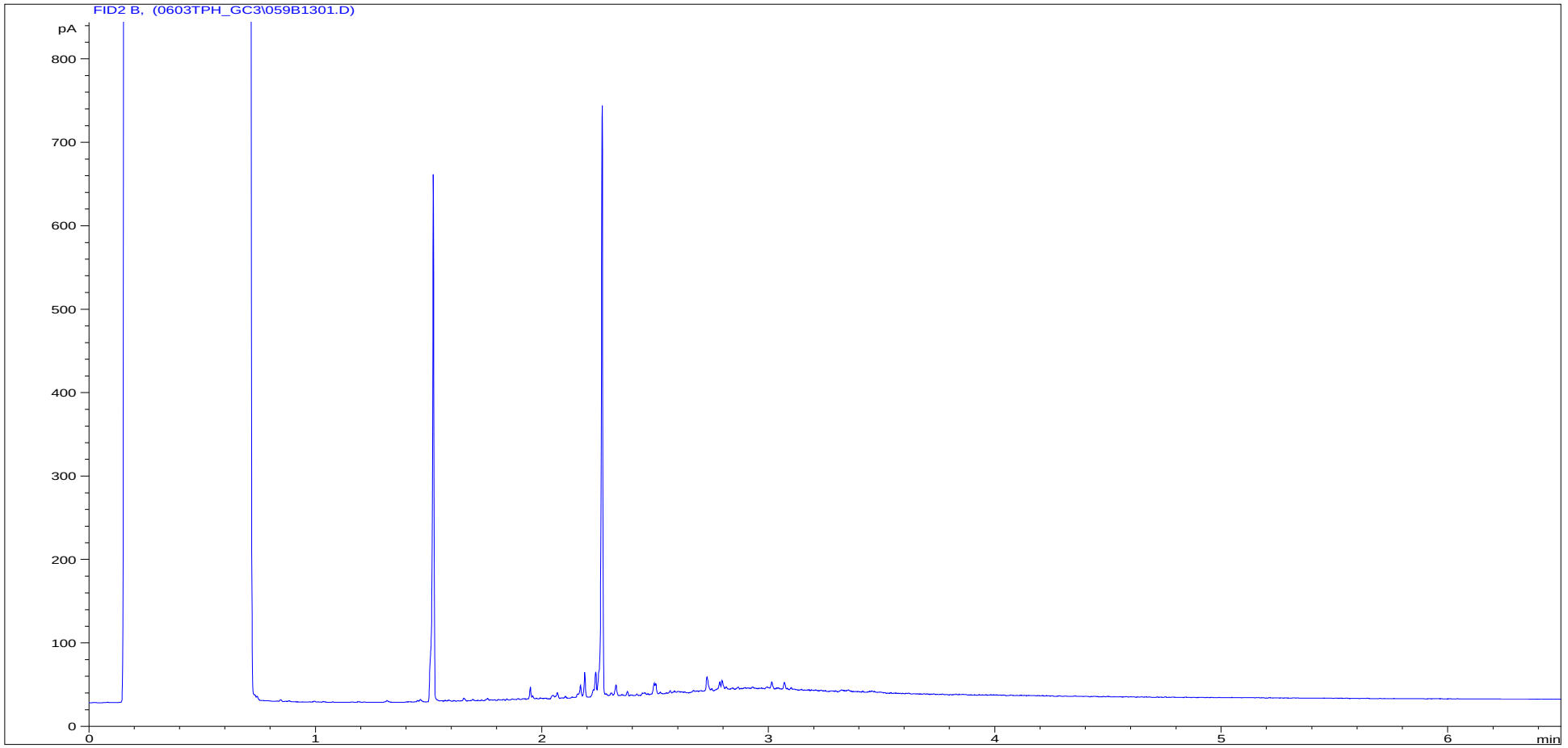
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120302ALI	**Job Number:**	S11_4391M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306590 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\010F1301.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

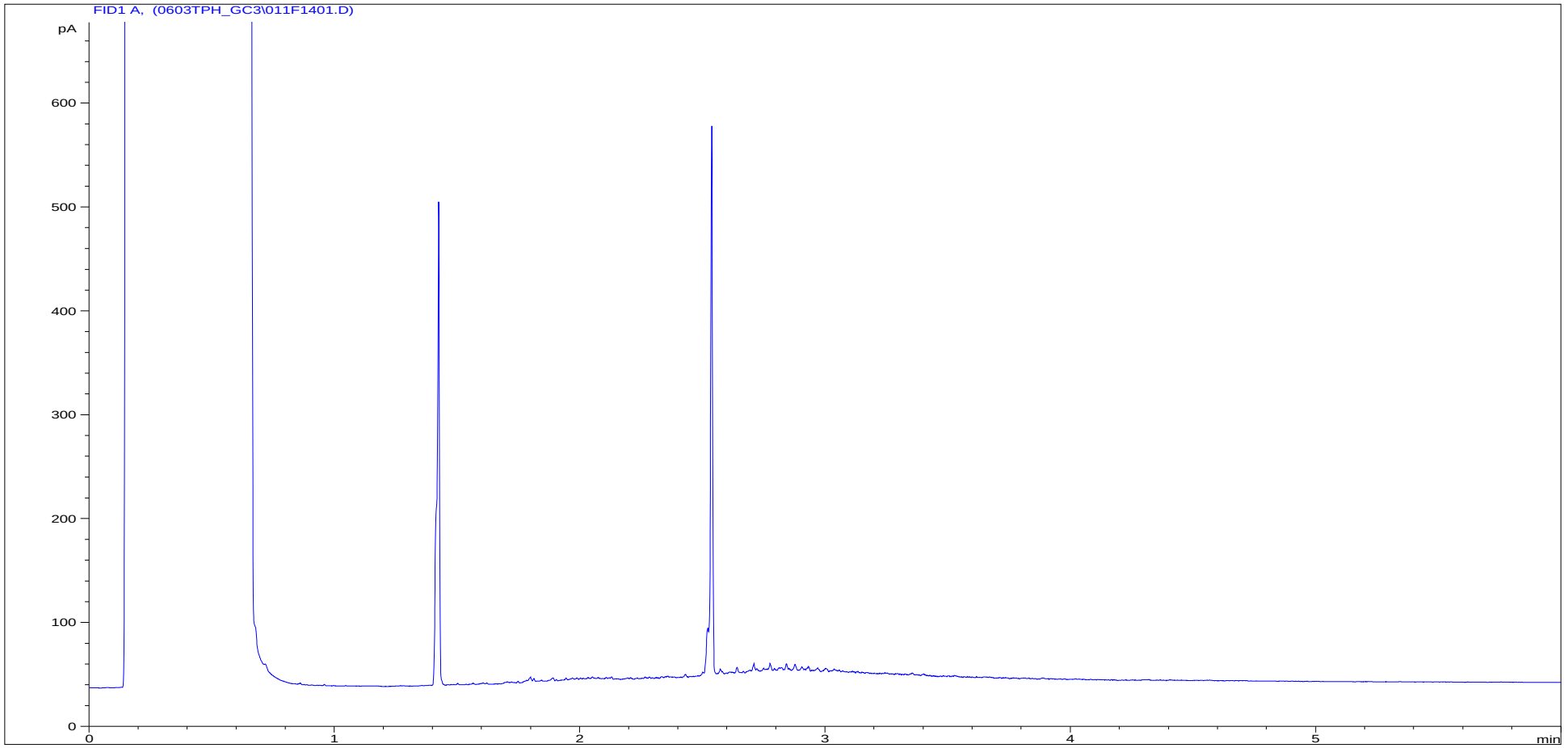
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120302ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306590 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\059B1301.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

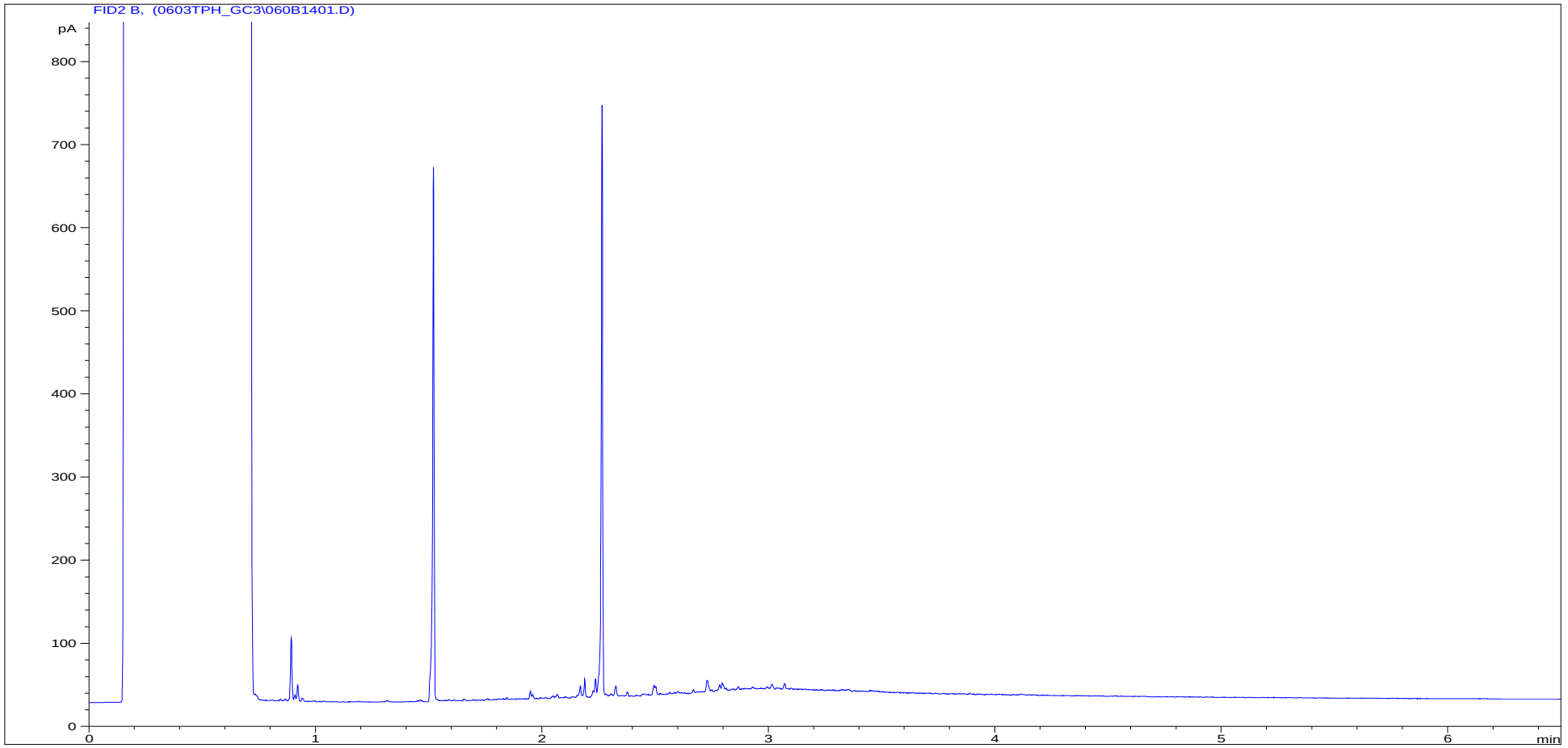
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120303ALI	**Job Number:**	S11_4391M
Multiplier:	16.8	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306591 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\011F1401.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

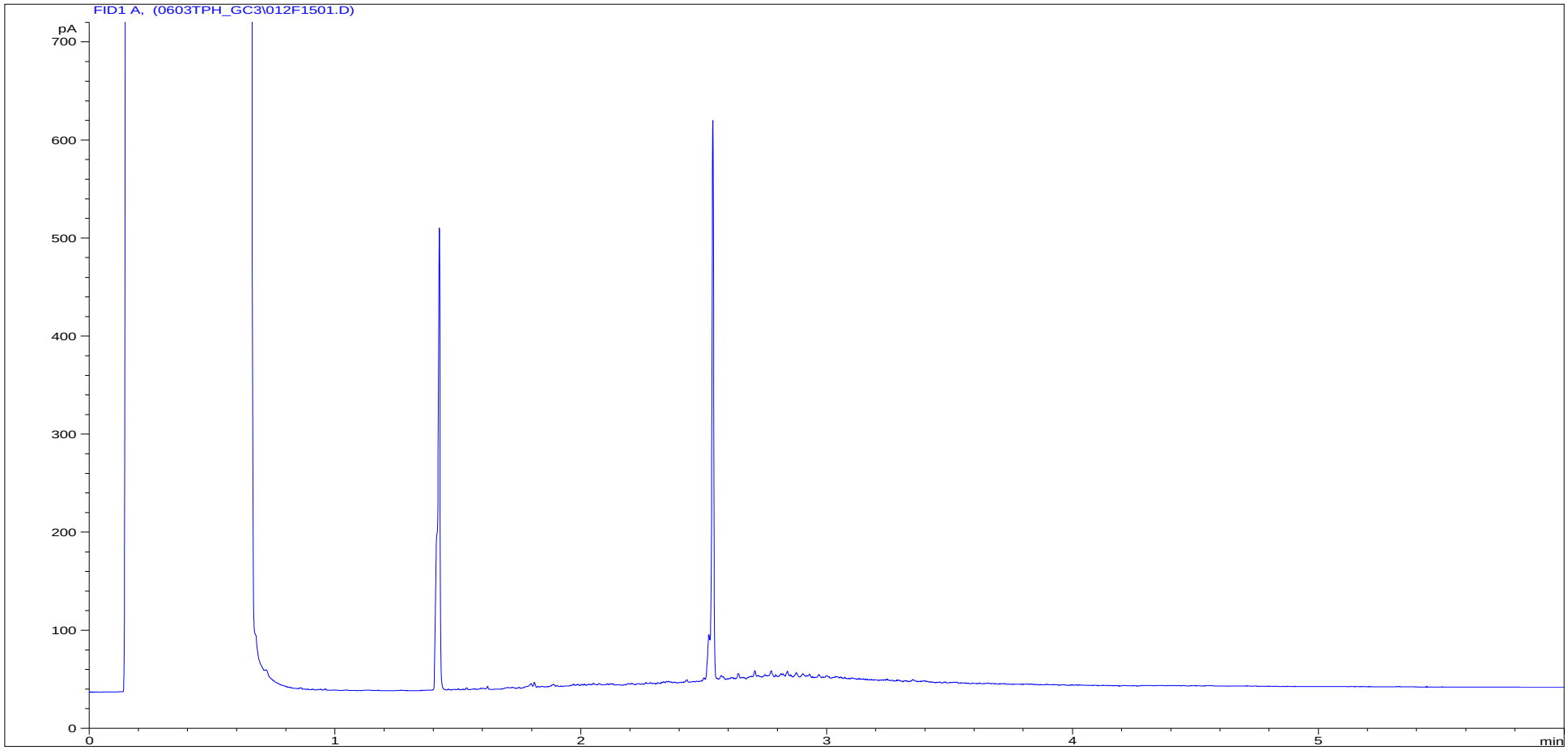
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120303ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306591 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\060B1401.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

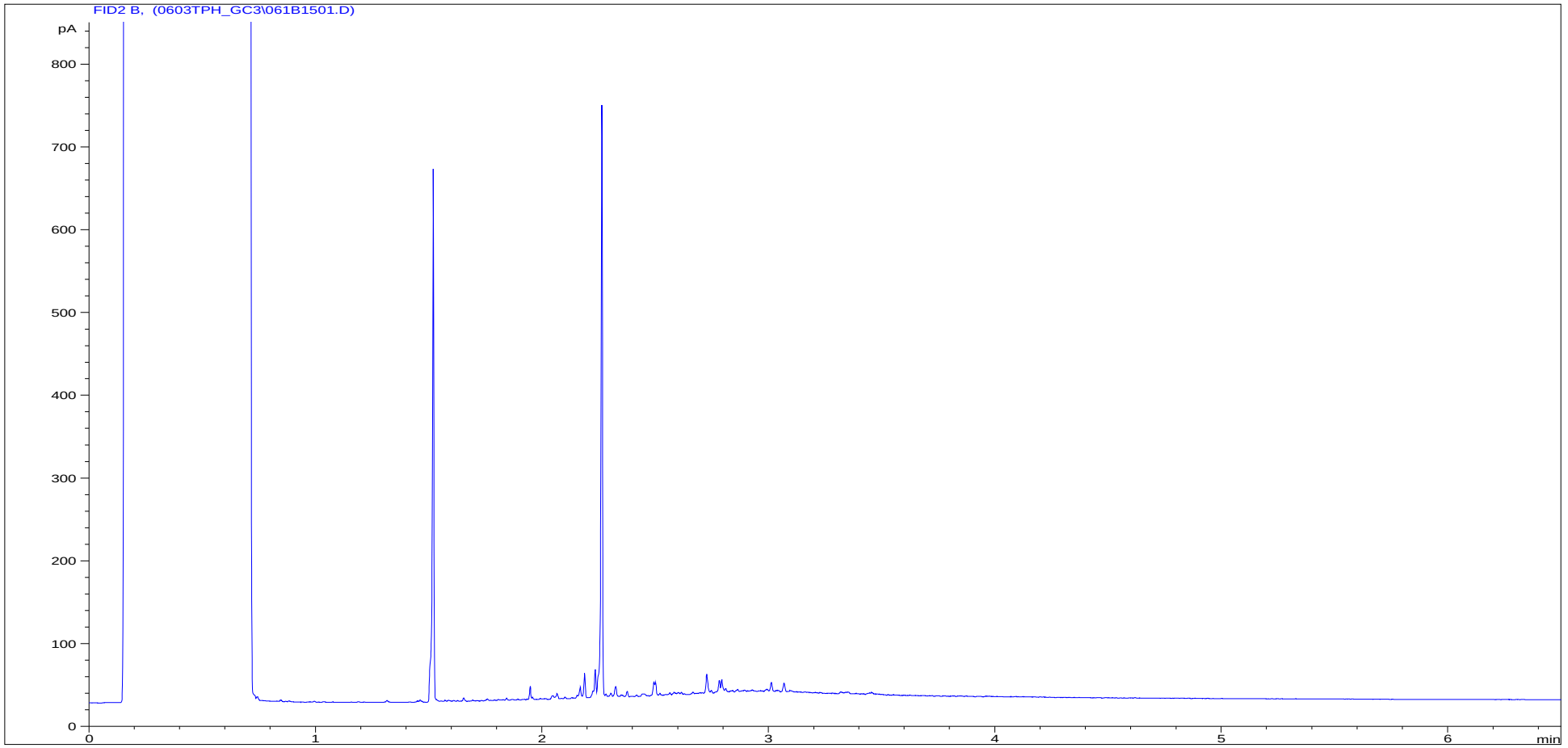
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120304ALI	**Job Number:**	S11_4391M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306592 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\012F1501.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

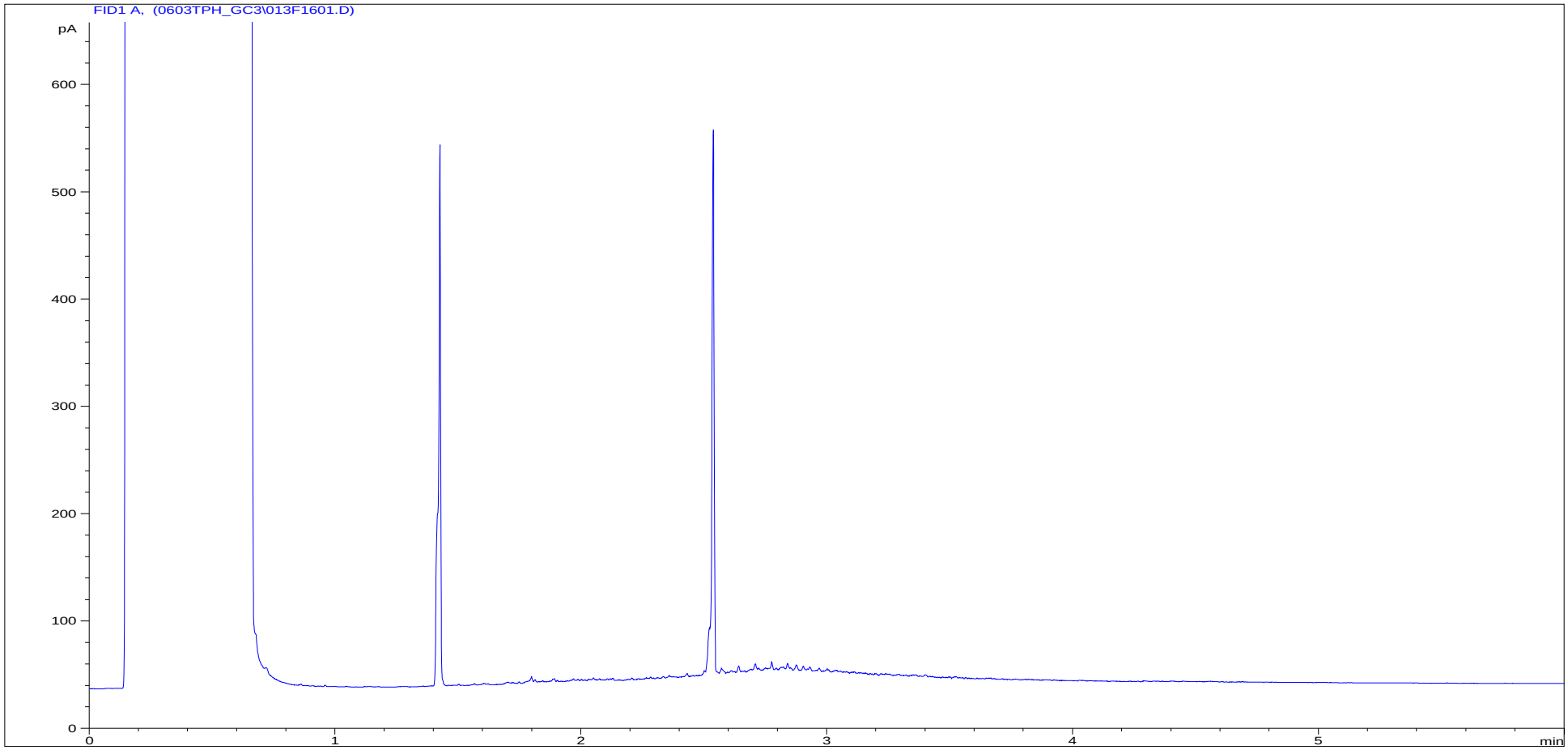
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120304ARO	**Job Number:**	S11_4391M
Multiplier:	13.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306592 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\061B1501.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

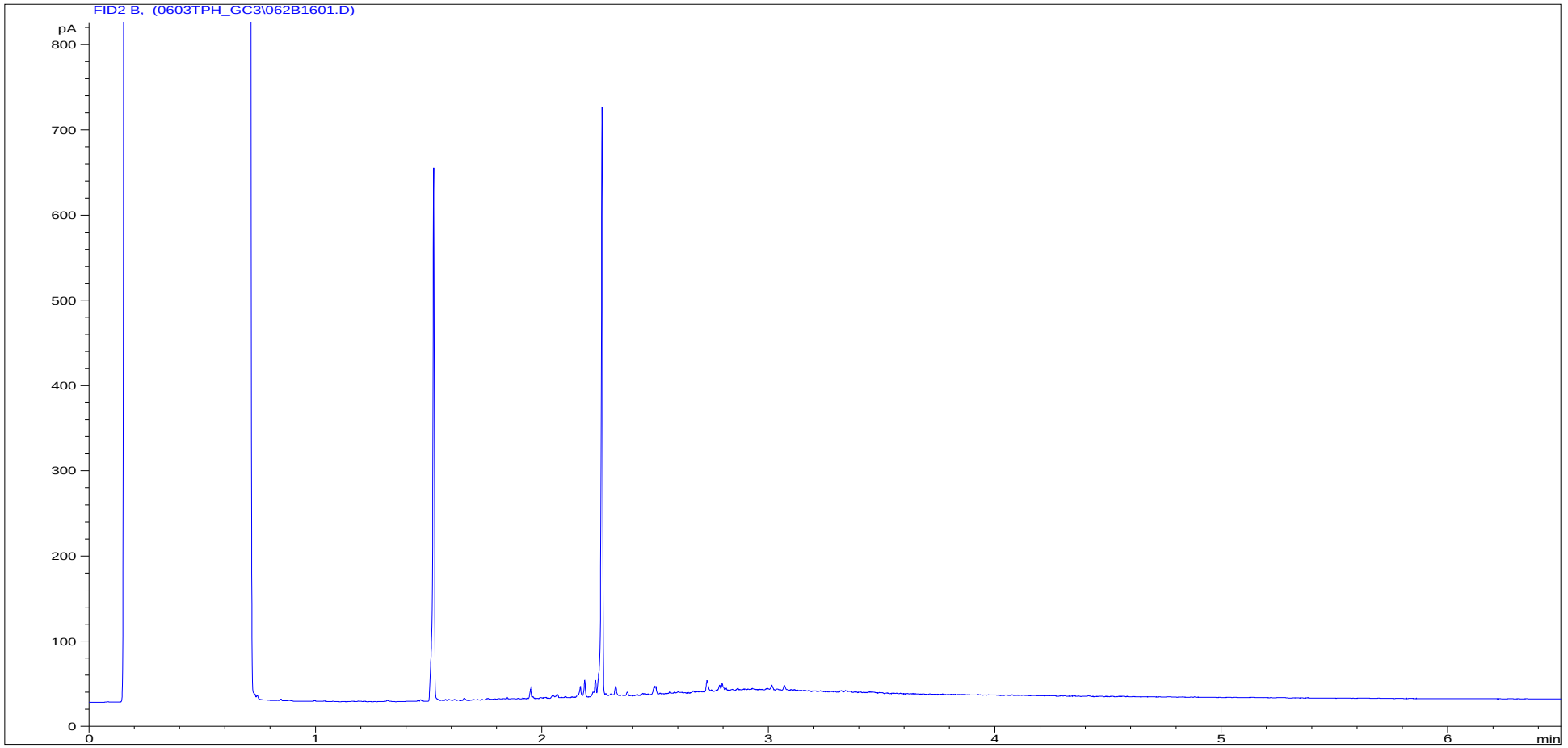
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120305ALI	**Job Number:**	S11_4391M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306593 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\013F1601.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

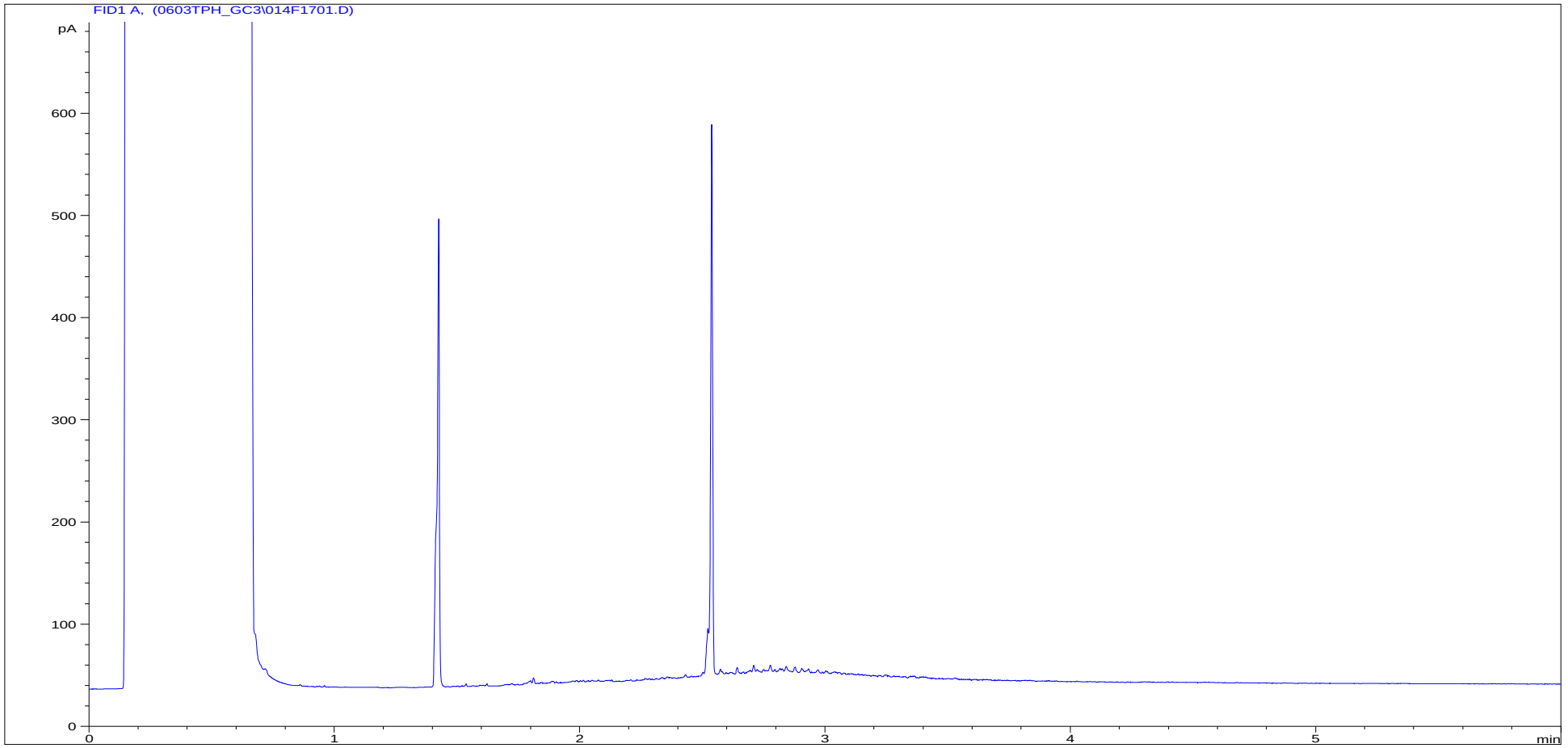
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120305ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306593 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\062B1601.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

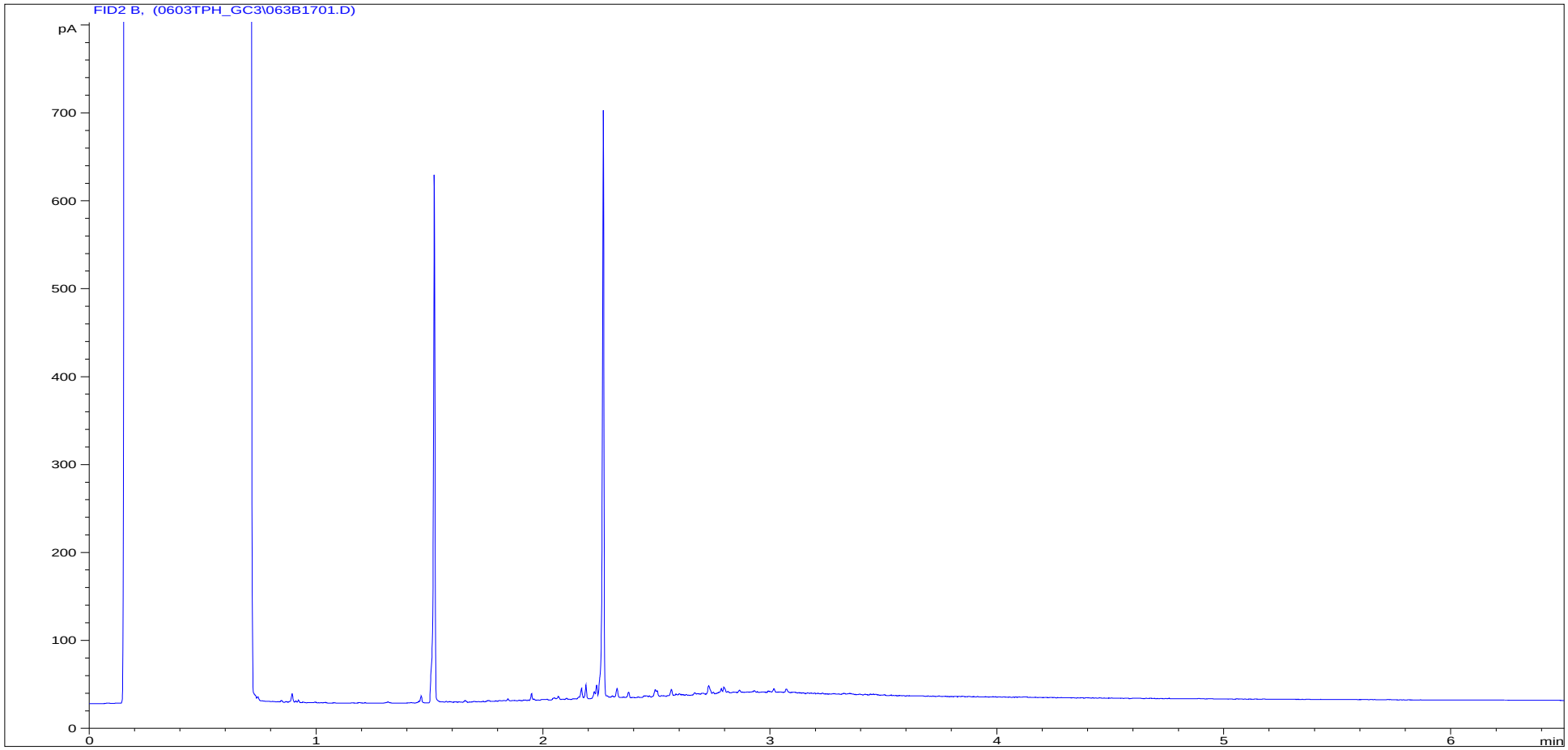
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120306ALI	**Job Number:**	S11_4391M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306594 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\014F1701.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

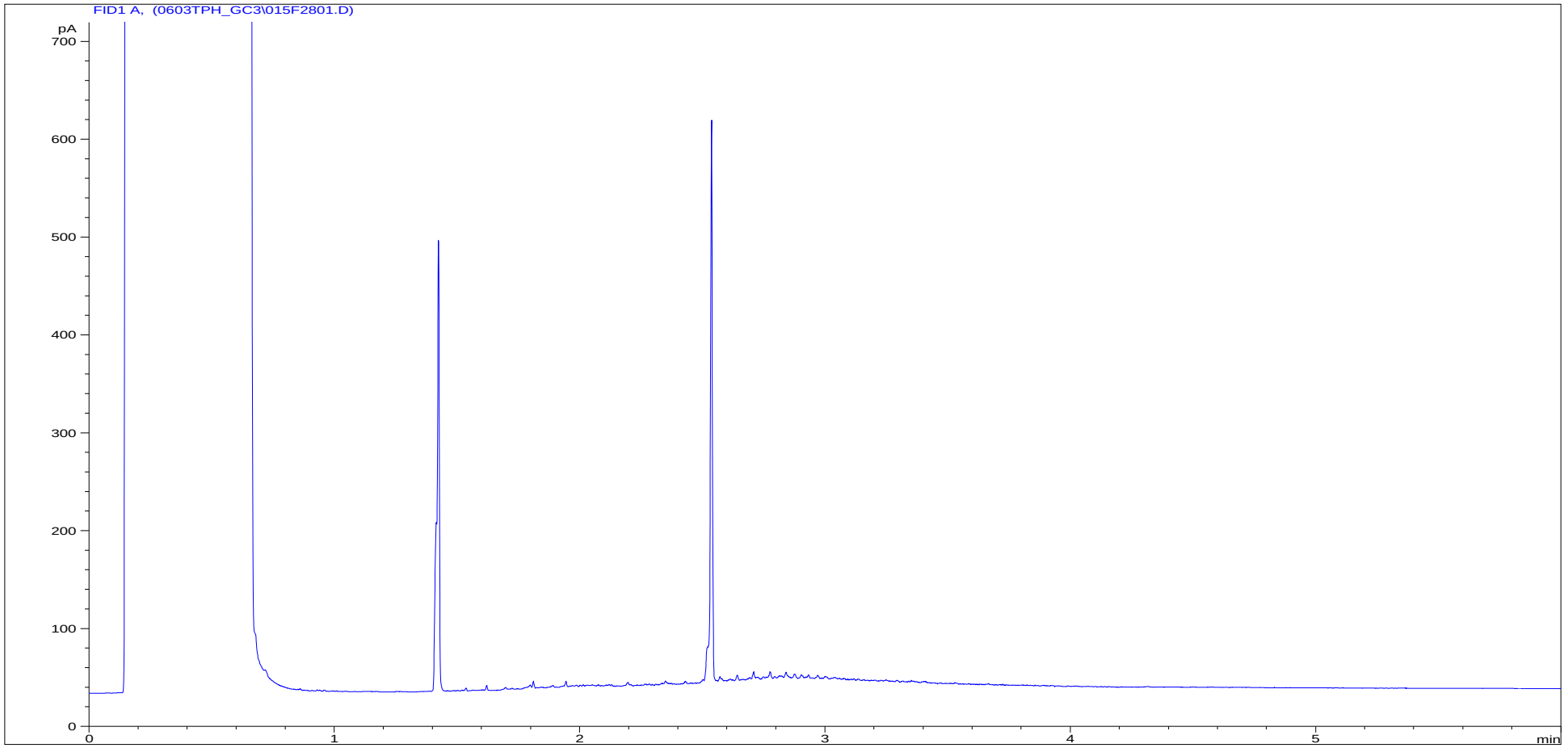
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120306ARO	**Job Number:**	S11_4391M
Multiplier:	11.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306594 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\063B1701.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

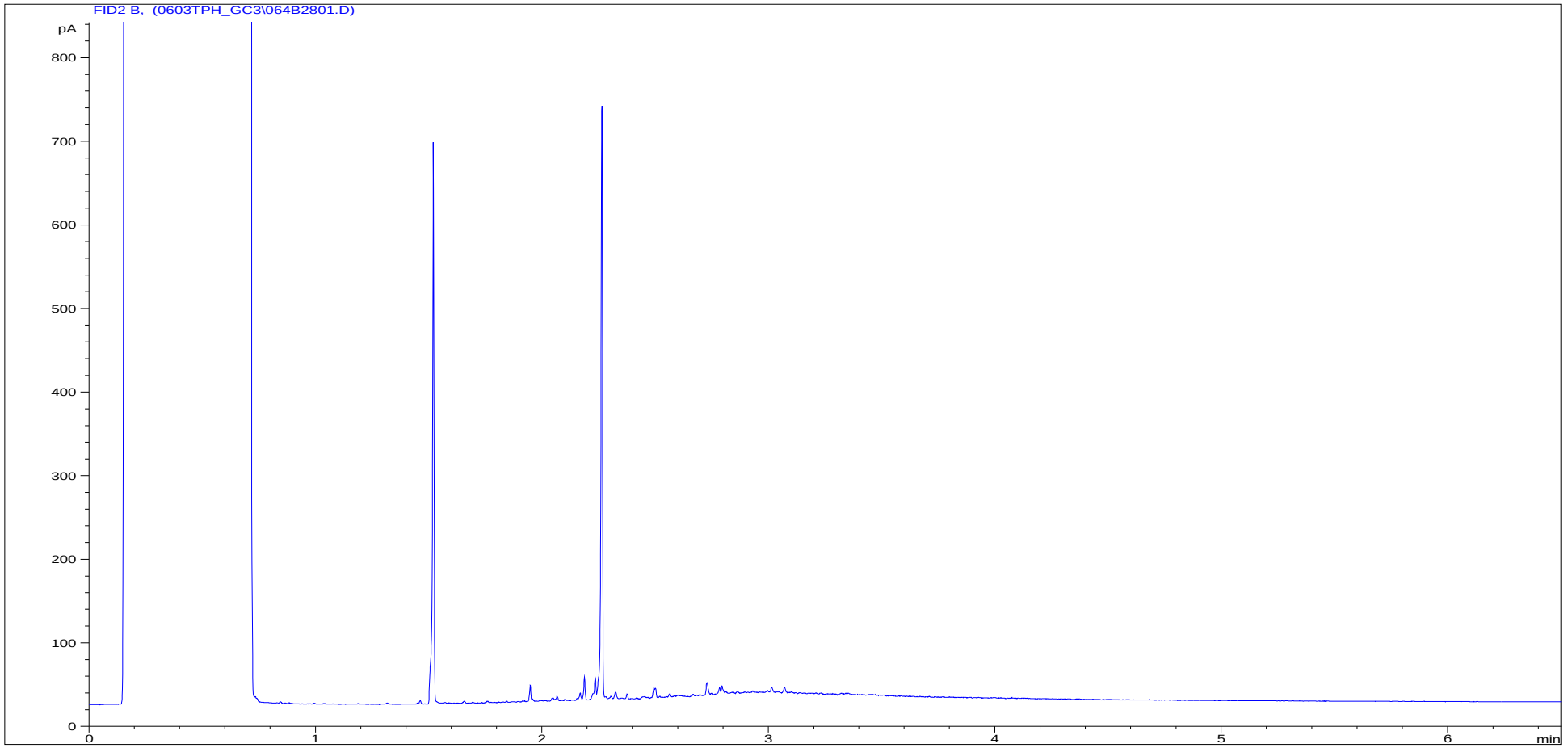
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120307ALI	**Job Number:**	S11_4391M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306595 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\015F2801.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

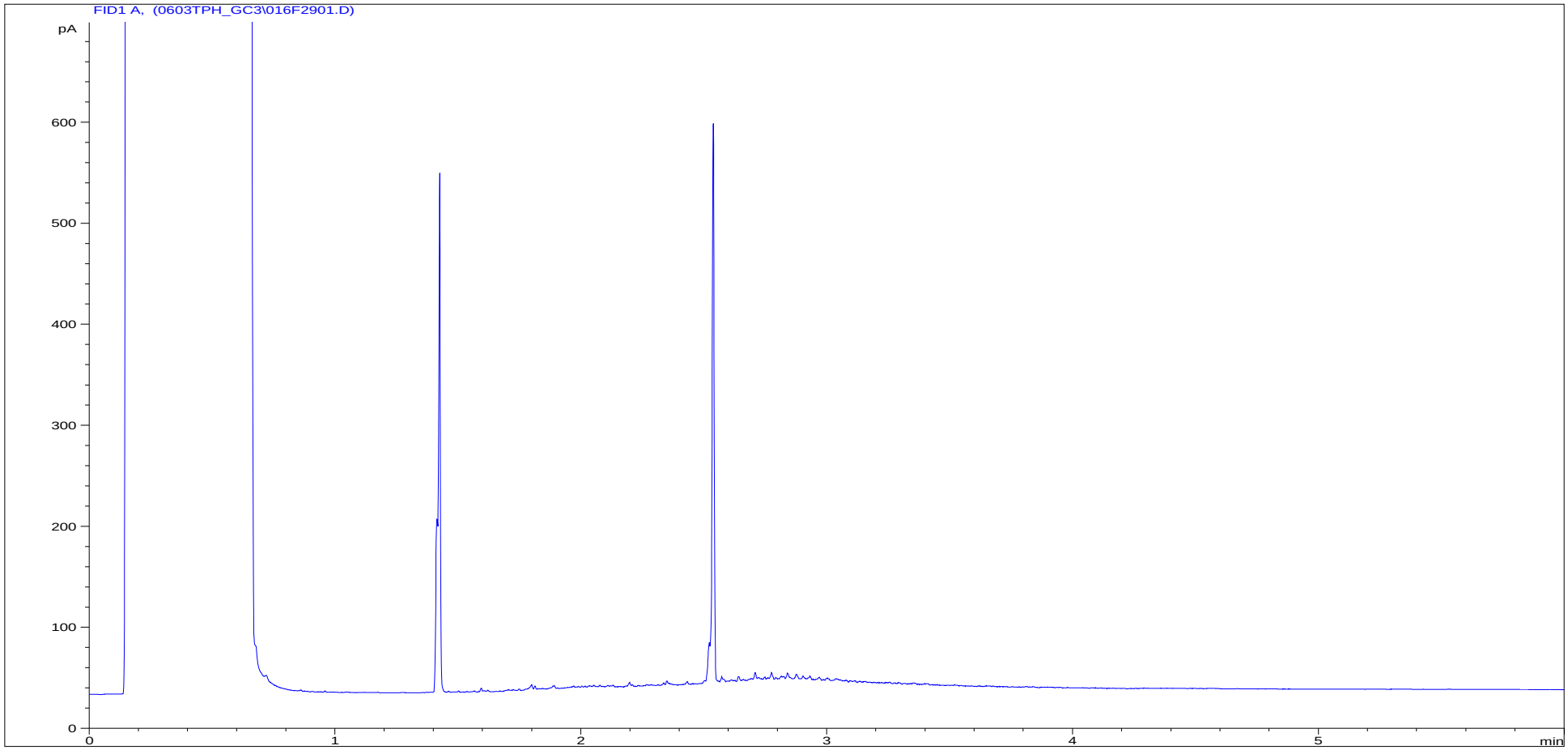
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120307ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306595 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\064B2801.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

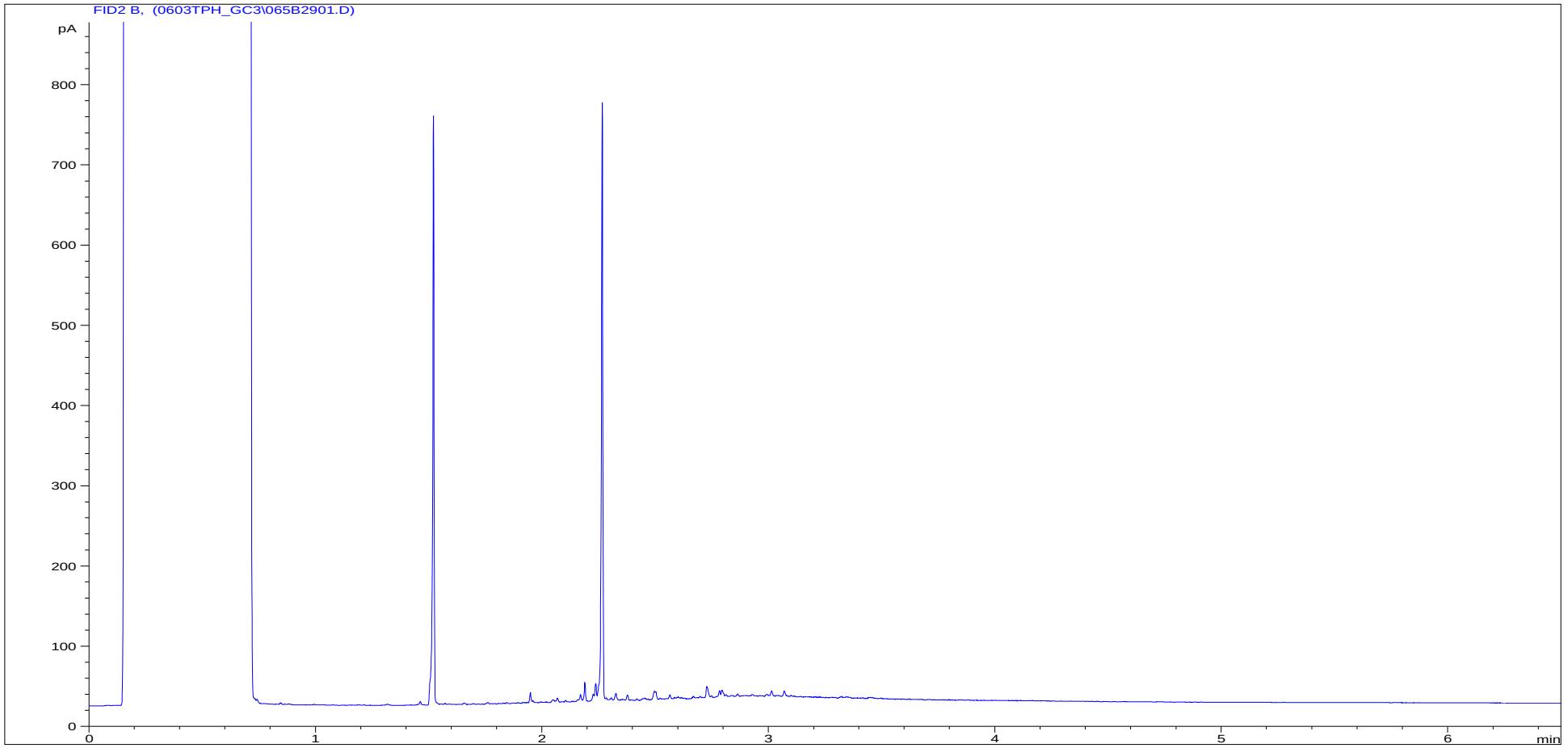
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120308ALI	**Job Number:**	S11_4391M
Multiplier:	15.2	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306596 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\016F2901.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

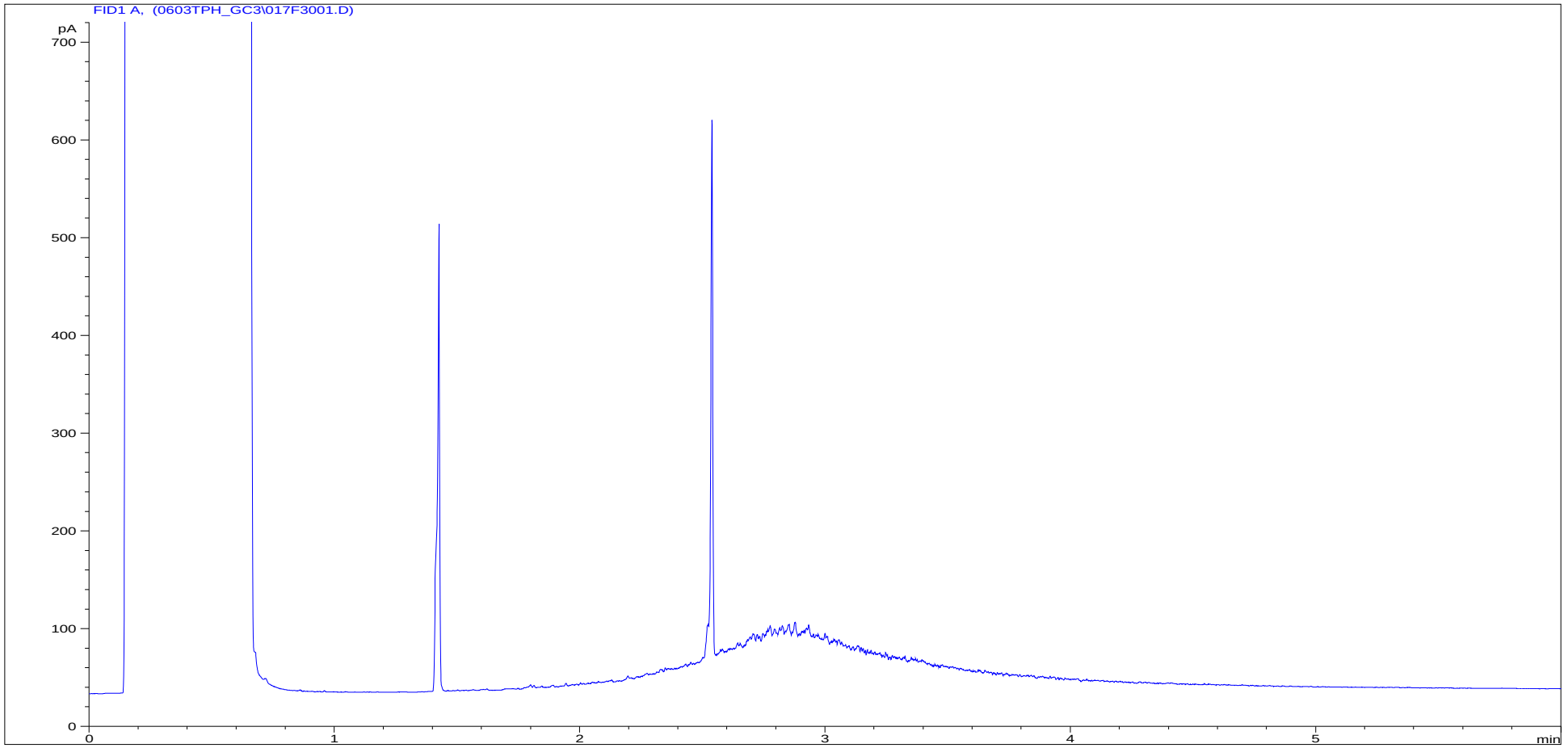
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120308ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306596 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\065B2901.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

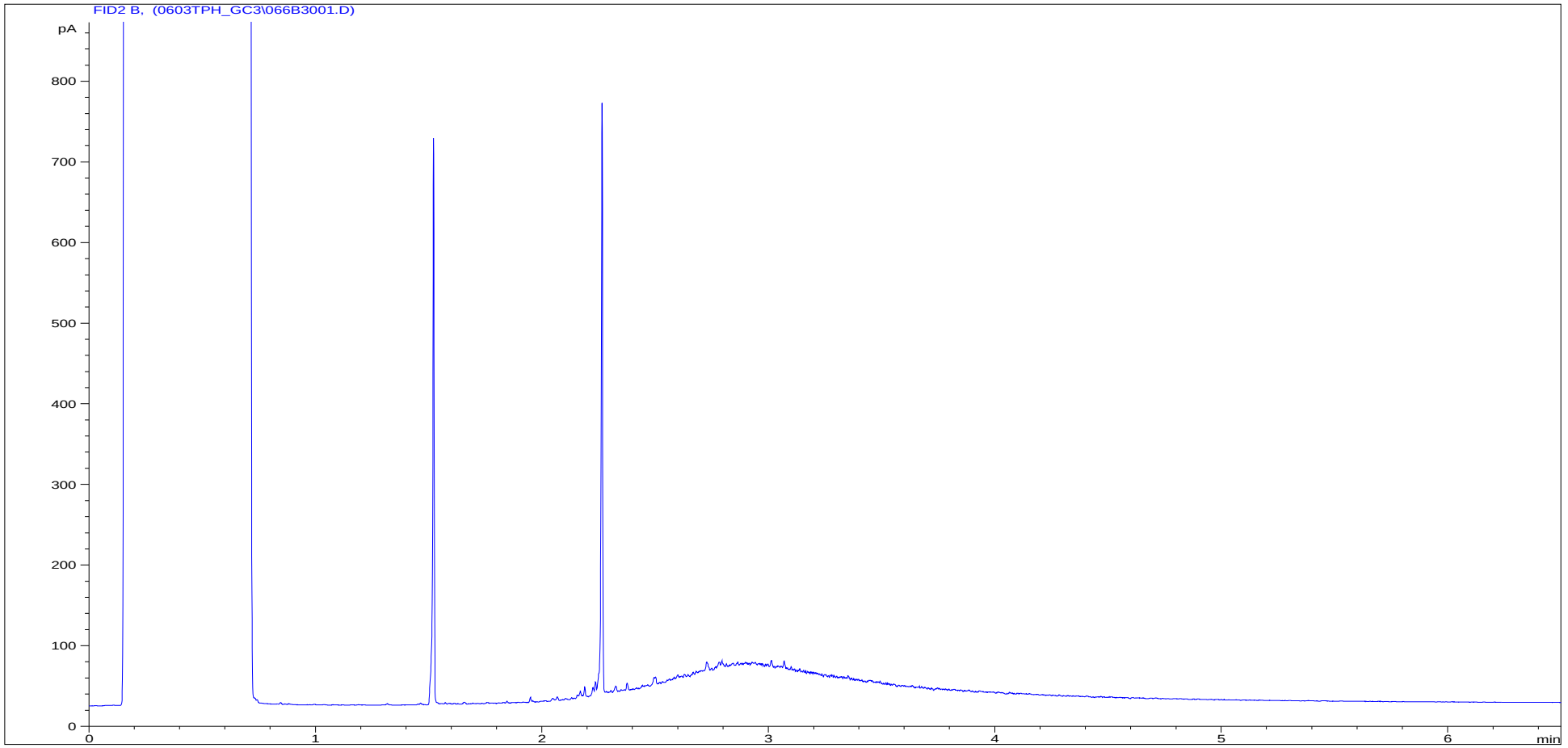
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120309ALI	**Job Number:**	S11_4391M
Multiplier:	14.44	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306597 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\017F3001.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

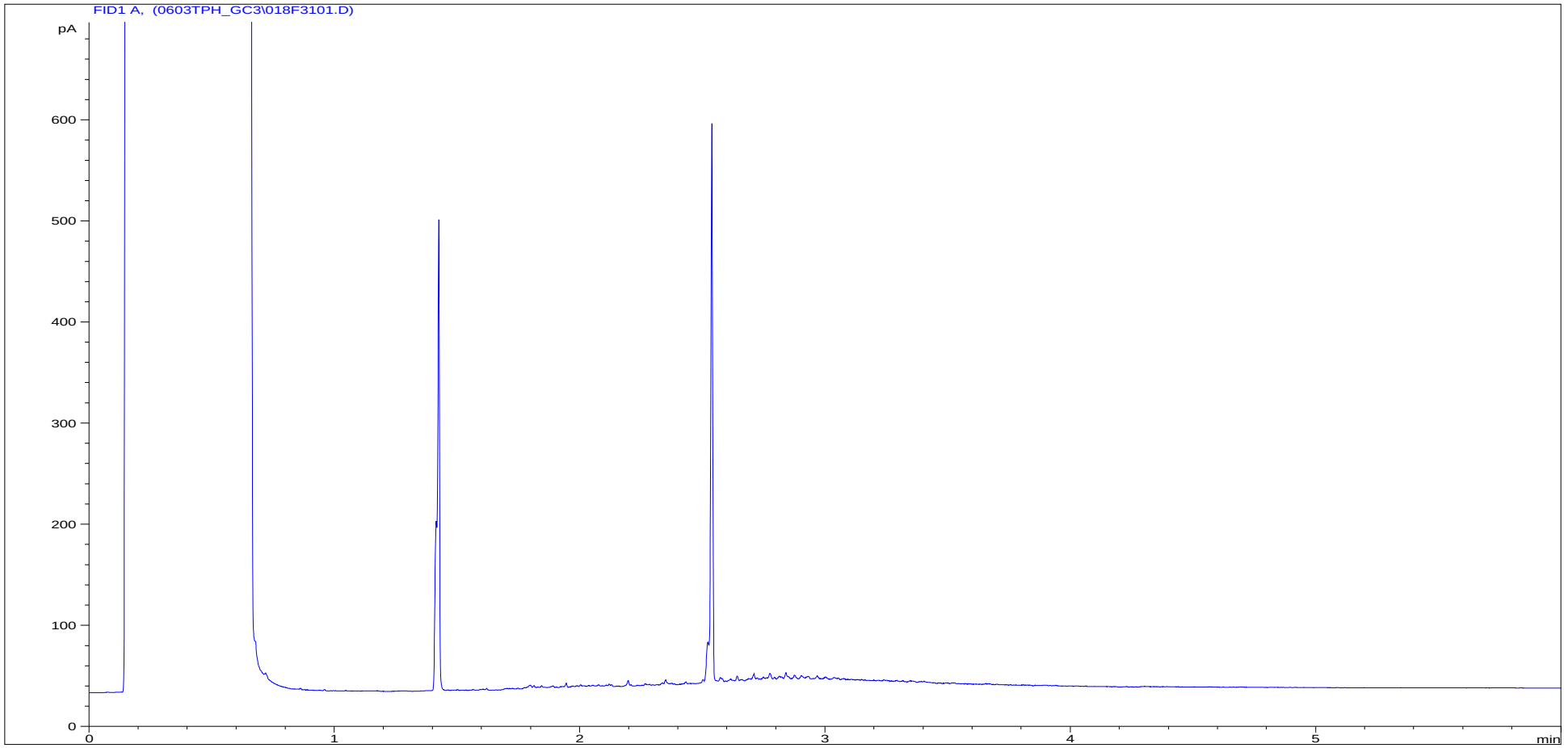
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120309ARO	**Job Number:**	S11_4391M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306597 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\066B3001.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

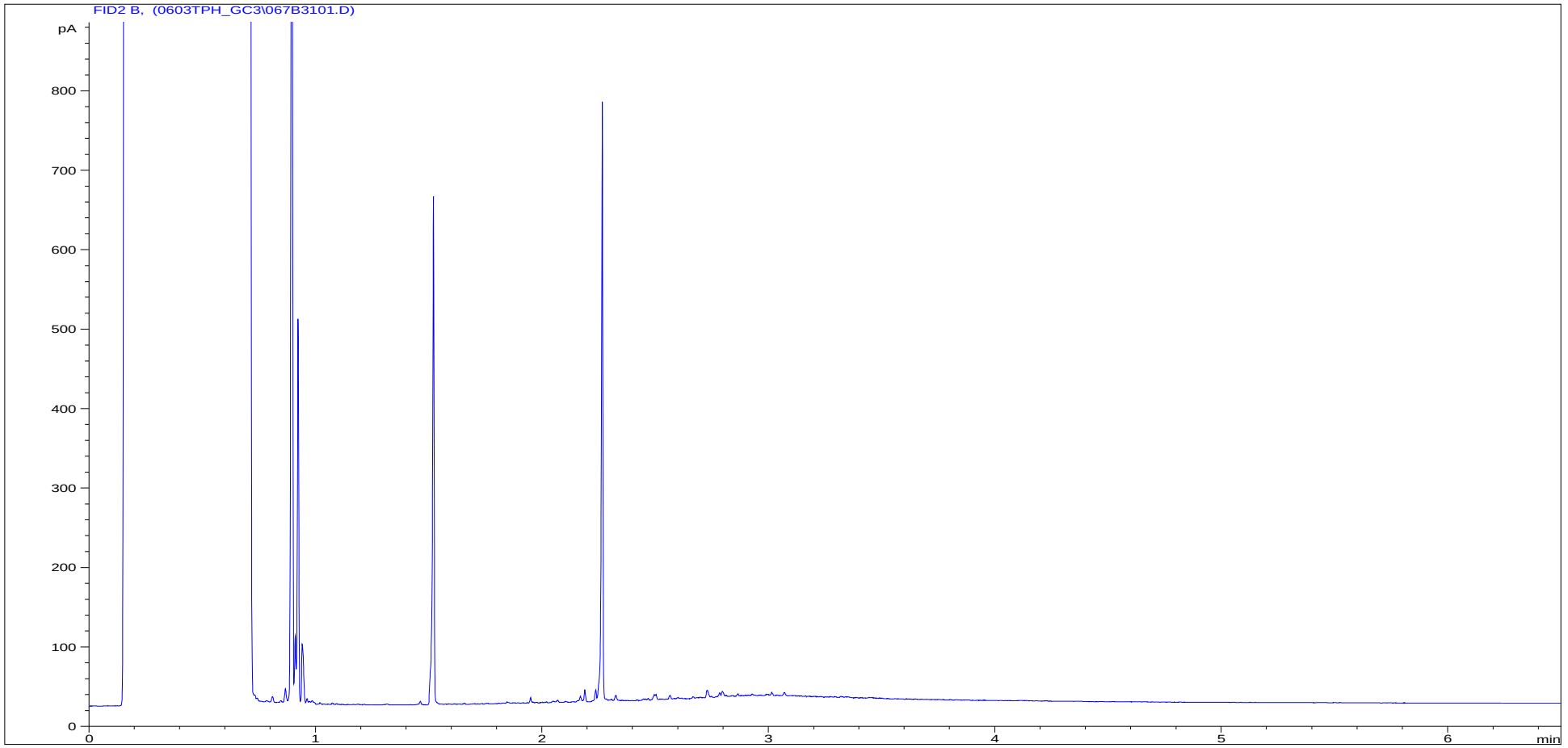
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120310ALI	**Job Number:**	S11_4391M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306598 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\018F3101.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

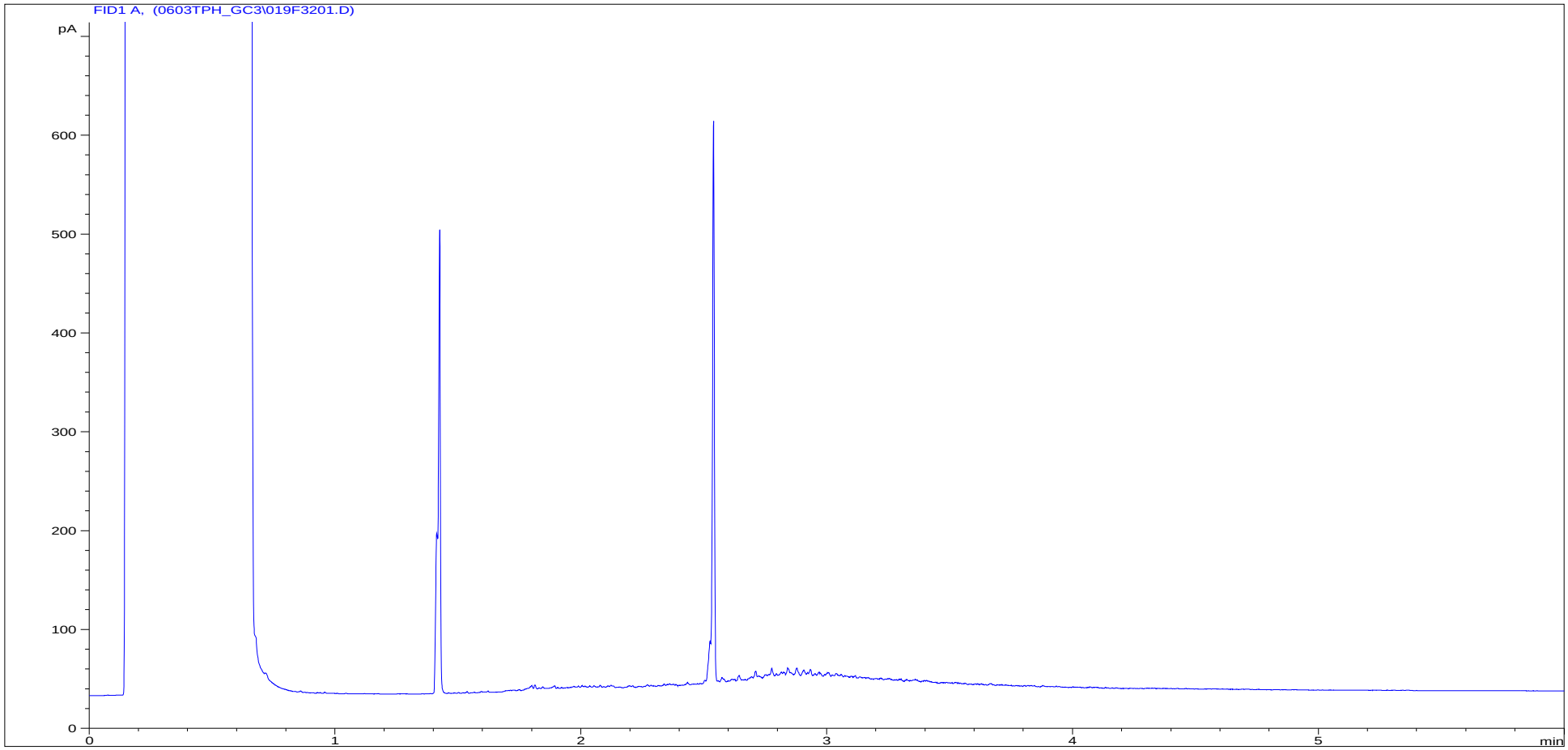
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120310ARO	**Job Number:**	S11_4391M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306598 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\067B3101.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

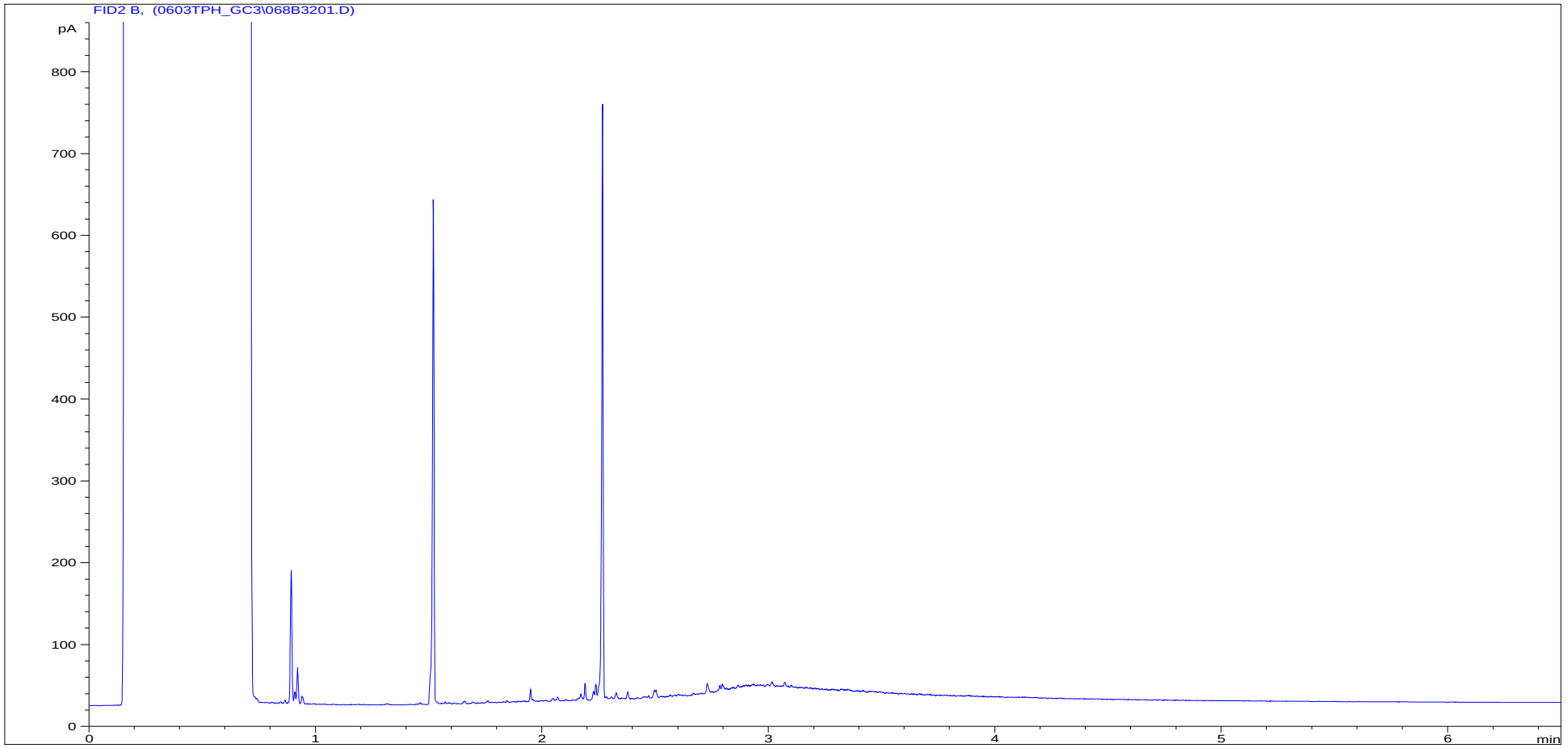
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120311ALI	**Job Number:**	S11_4391M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306599 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\019F3201.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

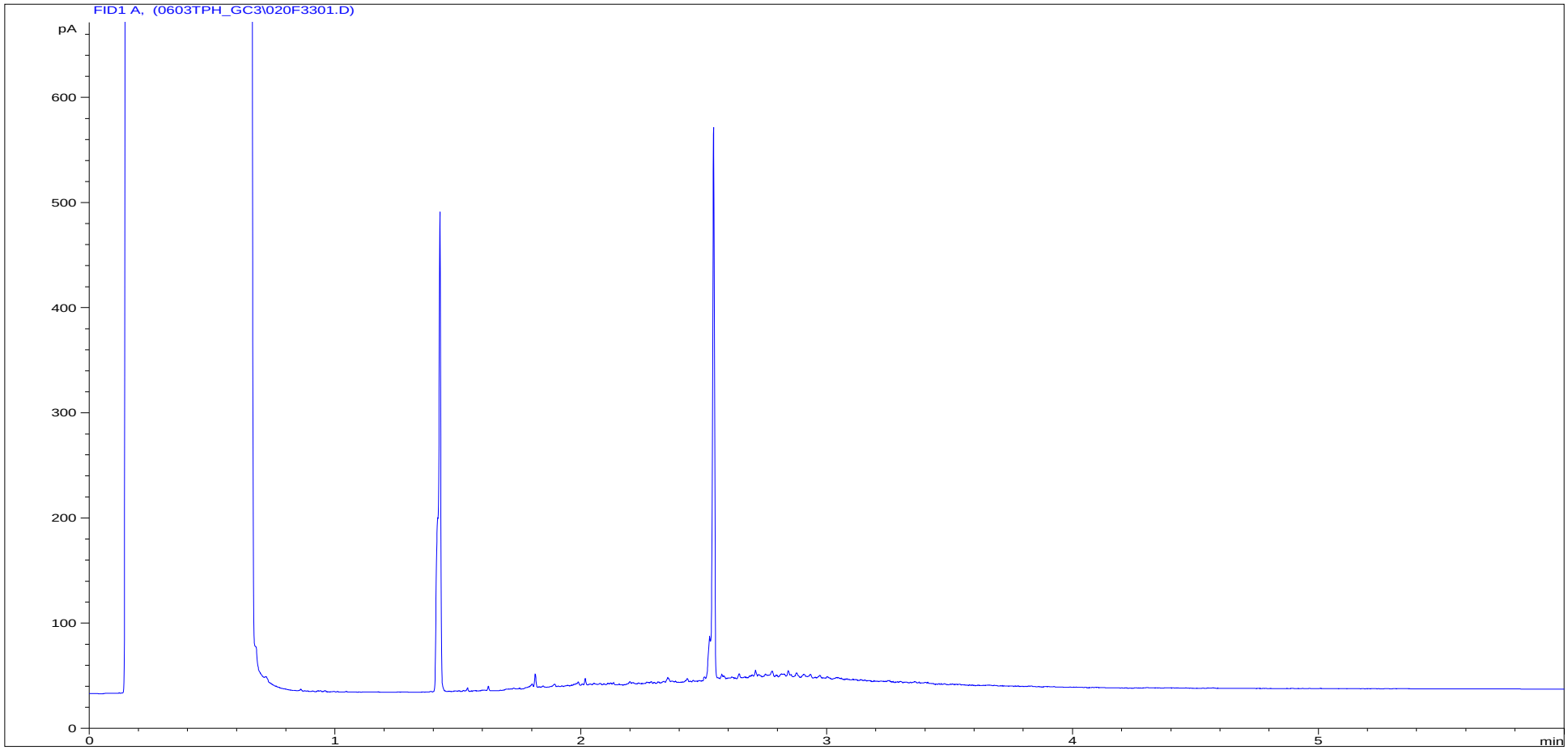
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120311ARO	**Job Number:**	S11_4391M
Multiplier:	11.78	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306599 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\068B3201.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

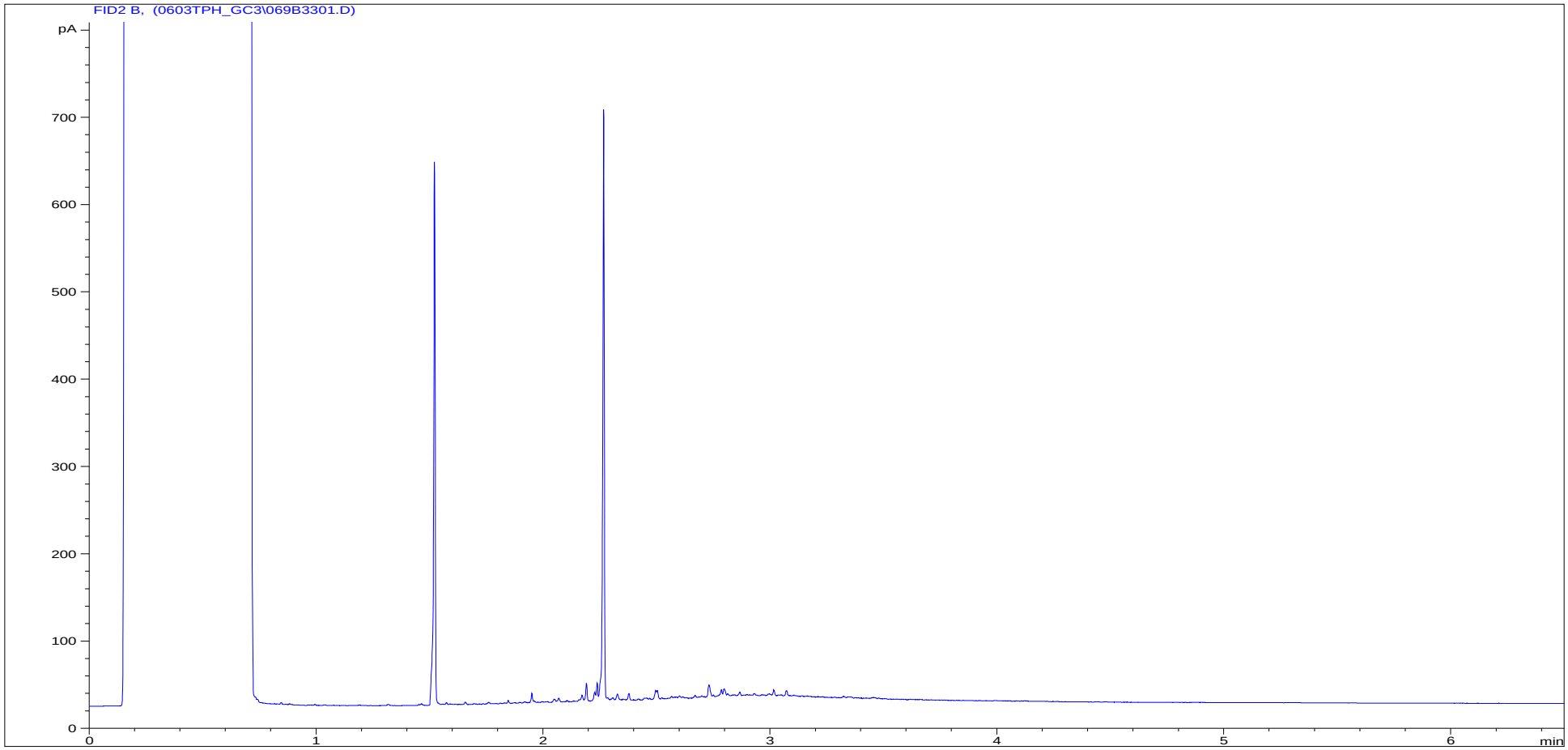
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120312ALI	**Job Number:**	S11_4391M
Multiplier:	15.2	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306600 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\020F3301.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

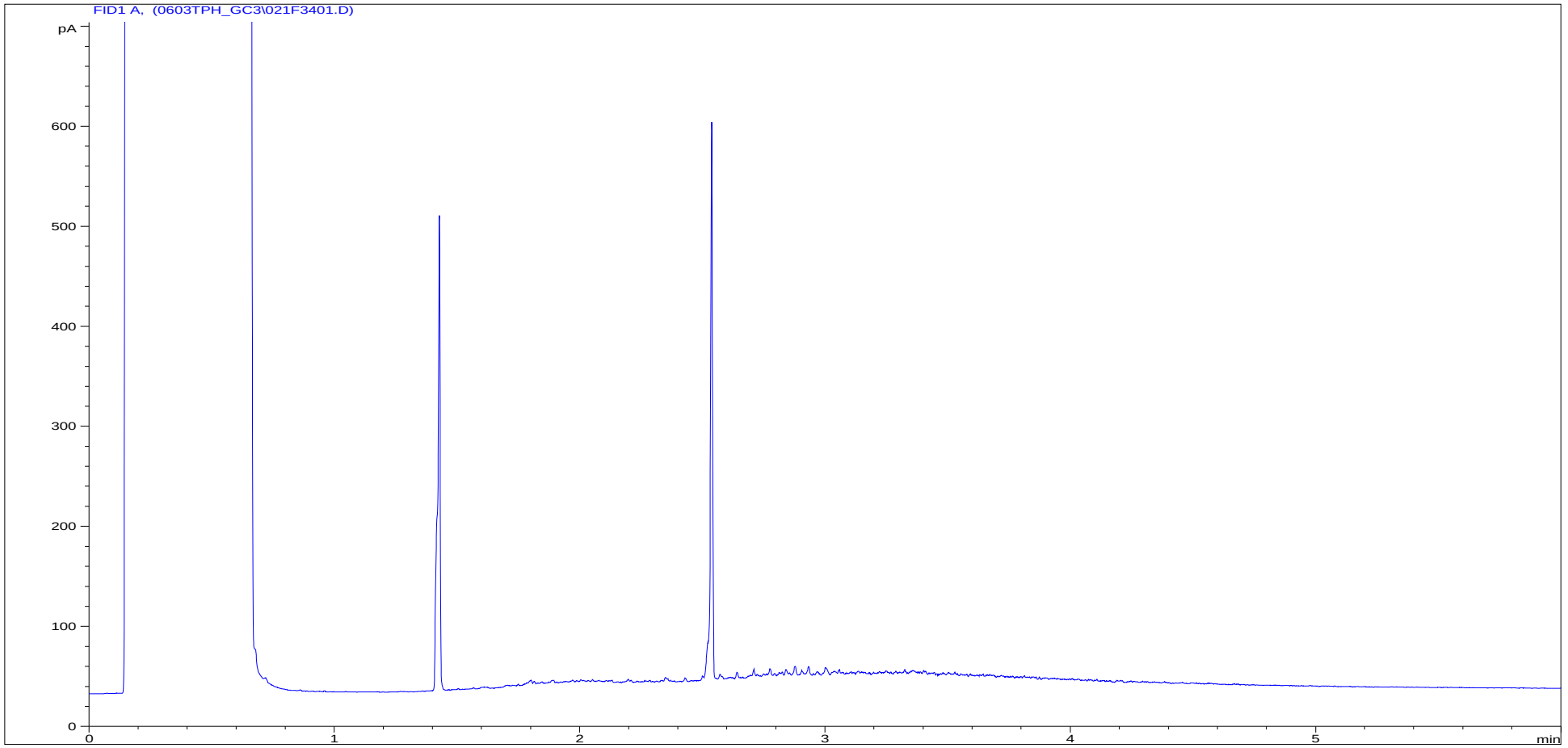
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120312ARO	**Job Number:**	S11_4391M
Multiplier:	12	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306600 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\069B3301.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

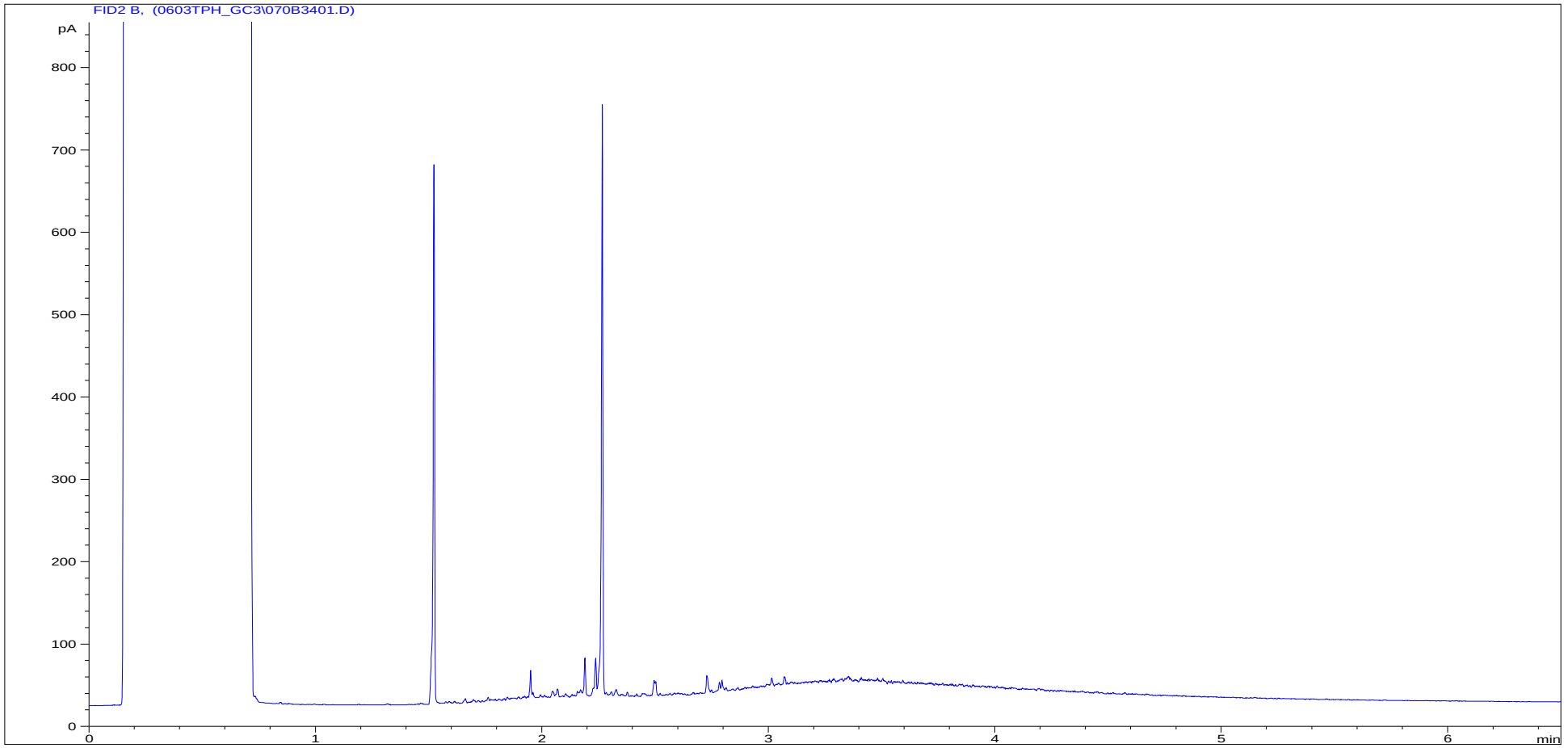
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120313ALI	**Job Number:**	S11_4391M
Multiplier:	14.82	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306601 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\021F3401.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

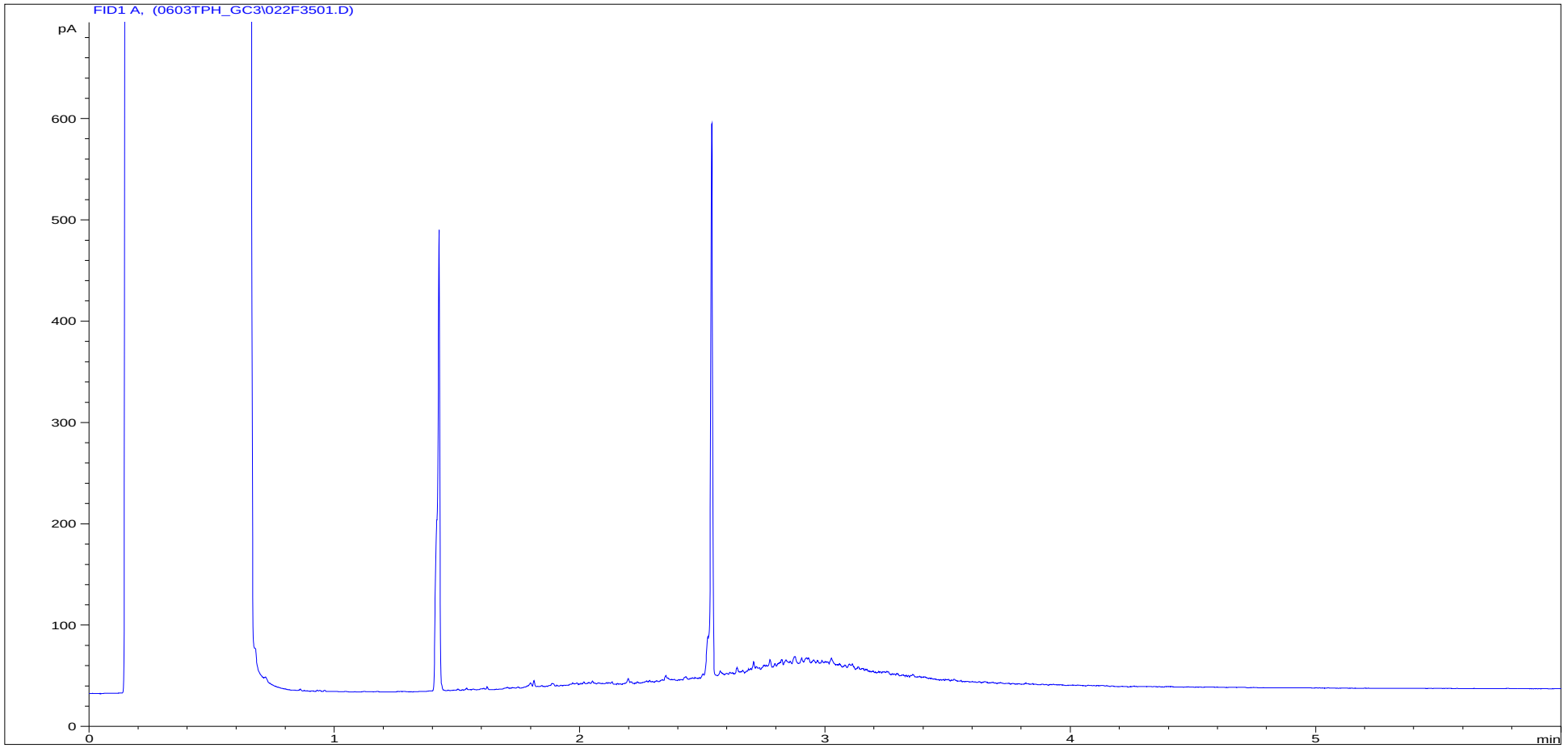
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120313ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306601 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\070B3401.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

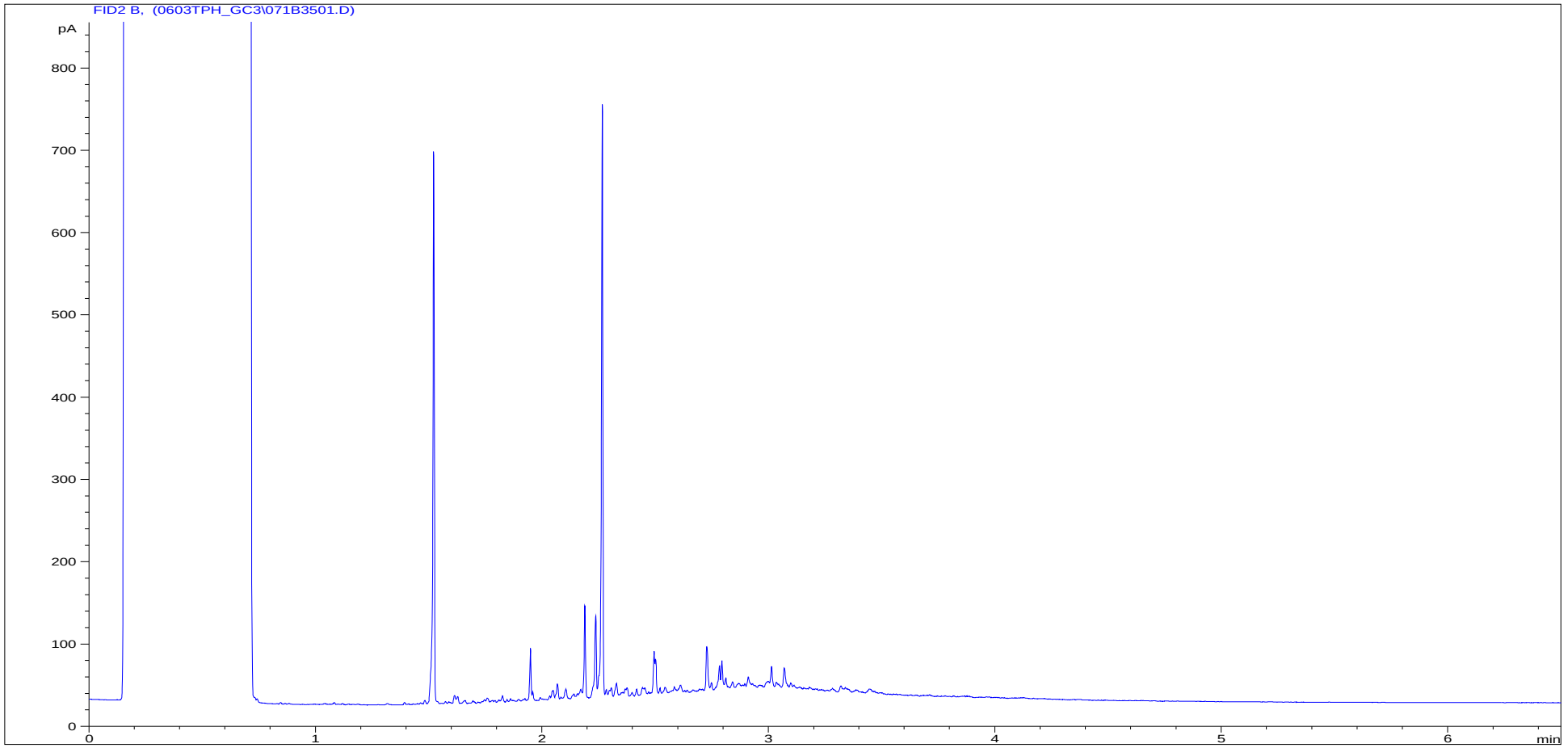
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120314ALI	**Job Number:**	S11_4391M
Multiplier:	16.38	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306602 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\022F3501.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

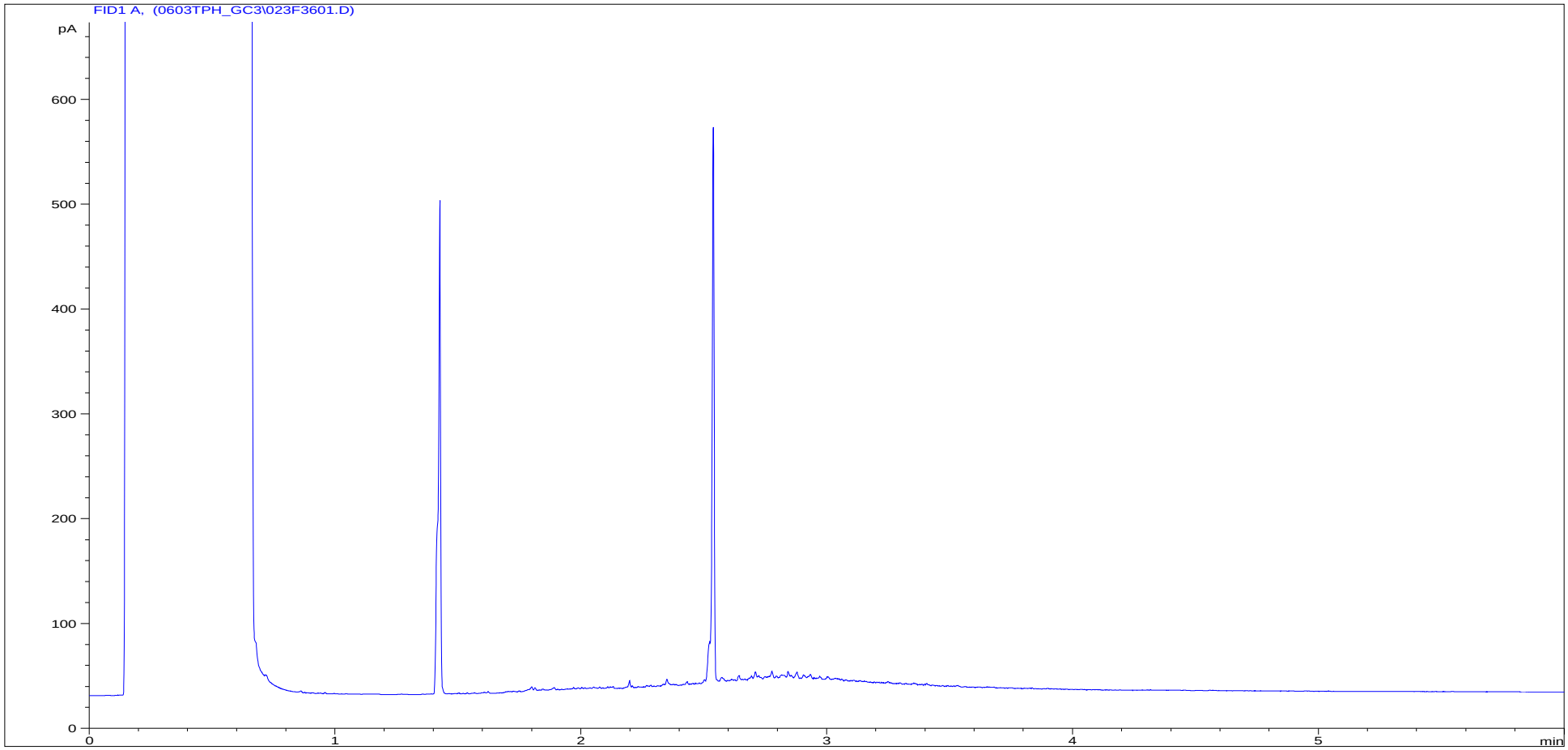
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120314ARO	**Job Number:**	S11_4391M
Multiplier:	12.6	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306602 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\071B3501.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

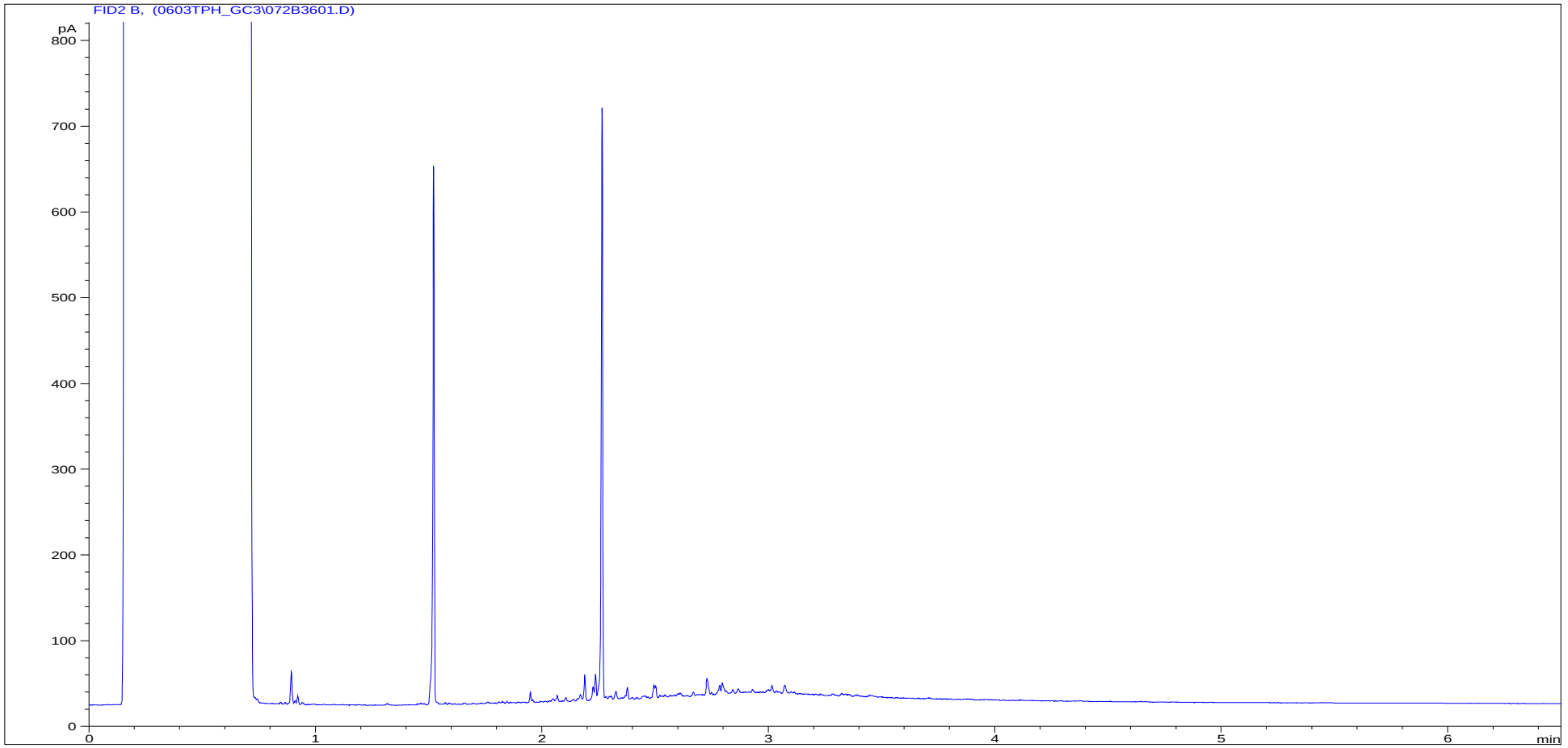
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120315ALI	**Job Number:**	S11_4391M
Multiplier:	14.04	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306603 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\023F3601.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

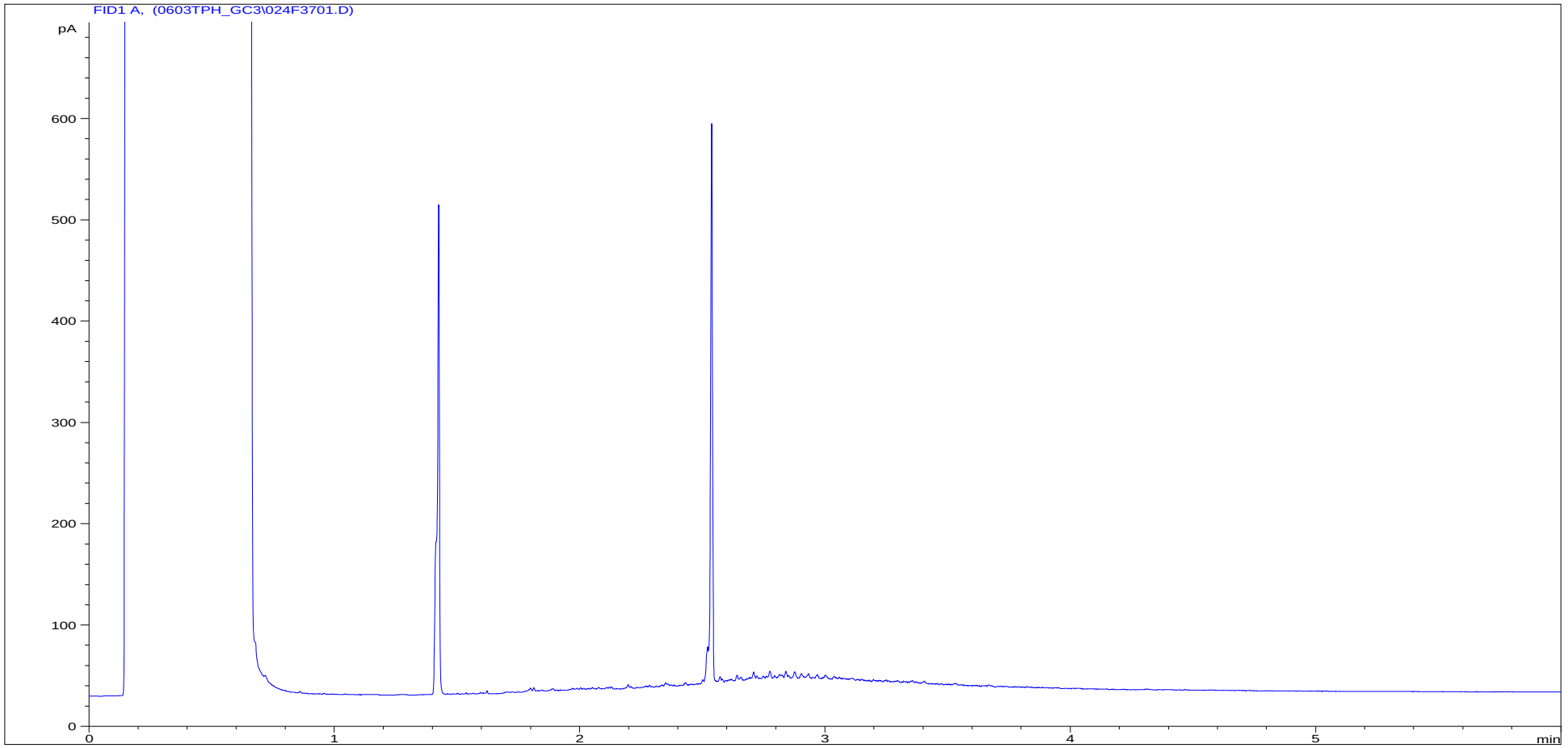
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120315ARO	**Job Number:**	S11_4391M
Multiplier:	10.8	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306603 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\072B3601.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

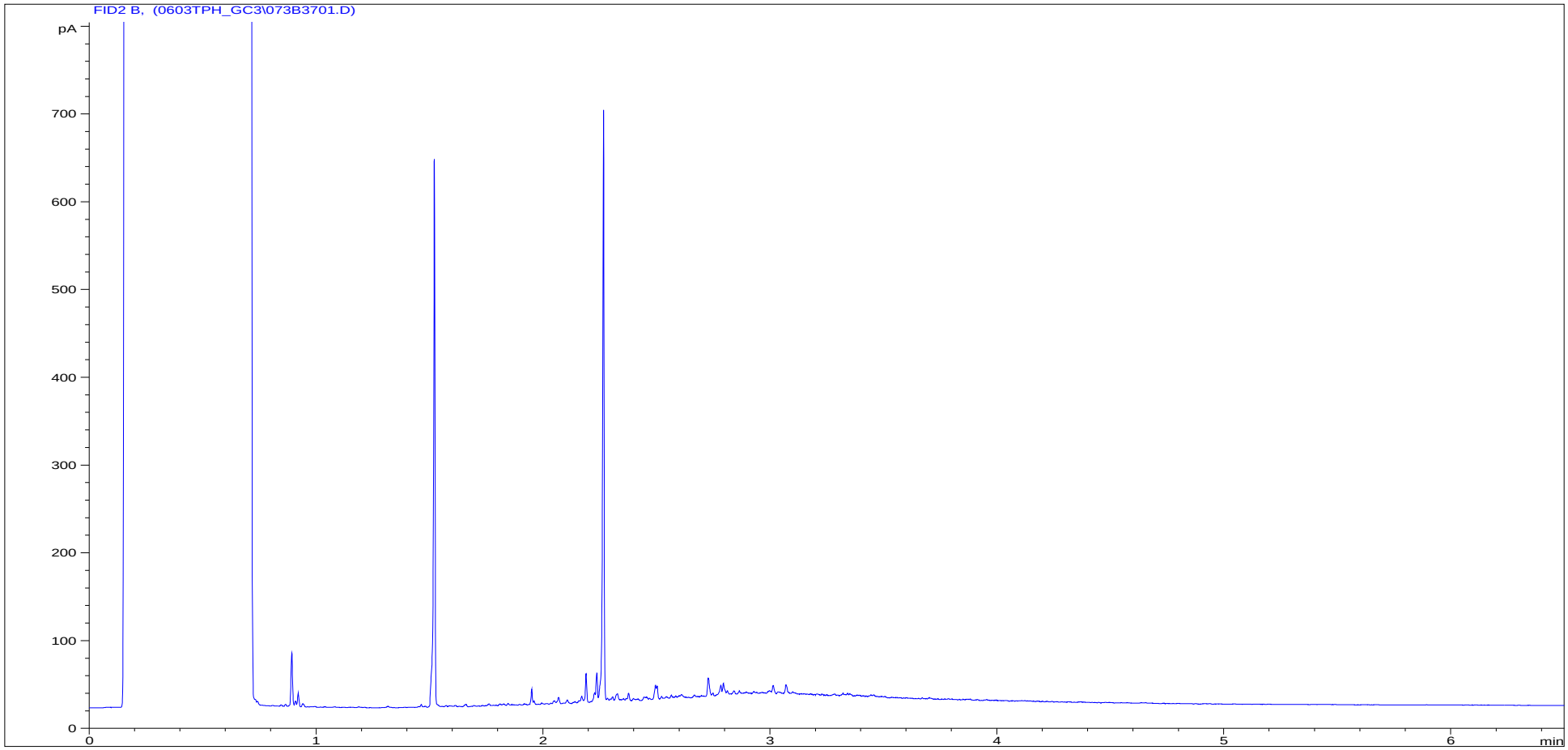
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120316ALI	**Job Number:**	S11_4391M
Multiplier:	14.44	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306604 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\024F3701.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

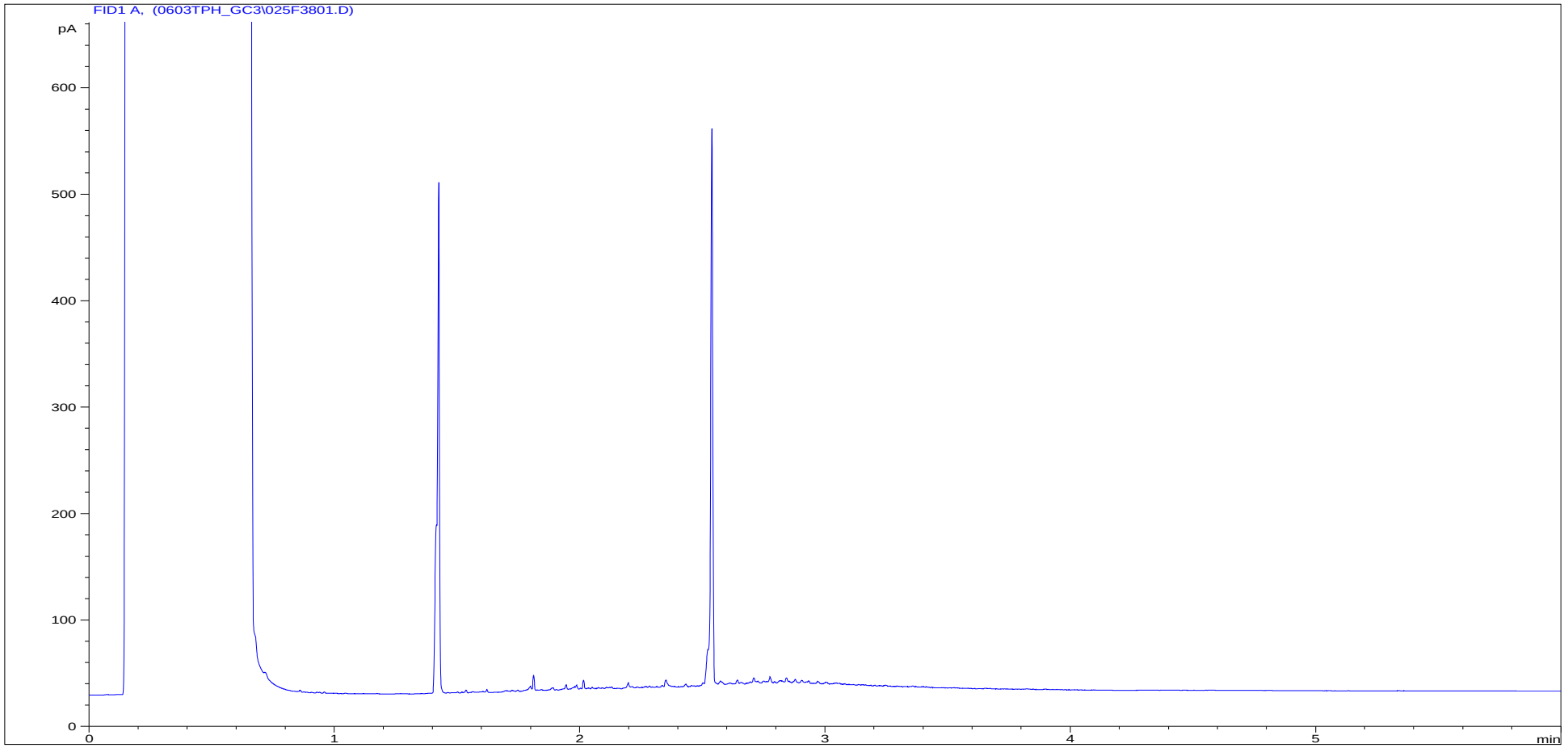
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120316ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306604 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\073B3701.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

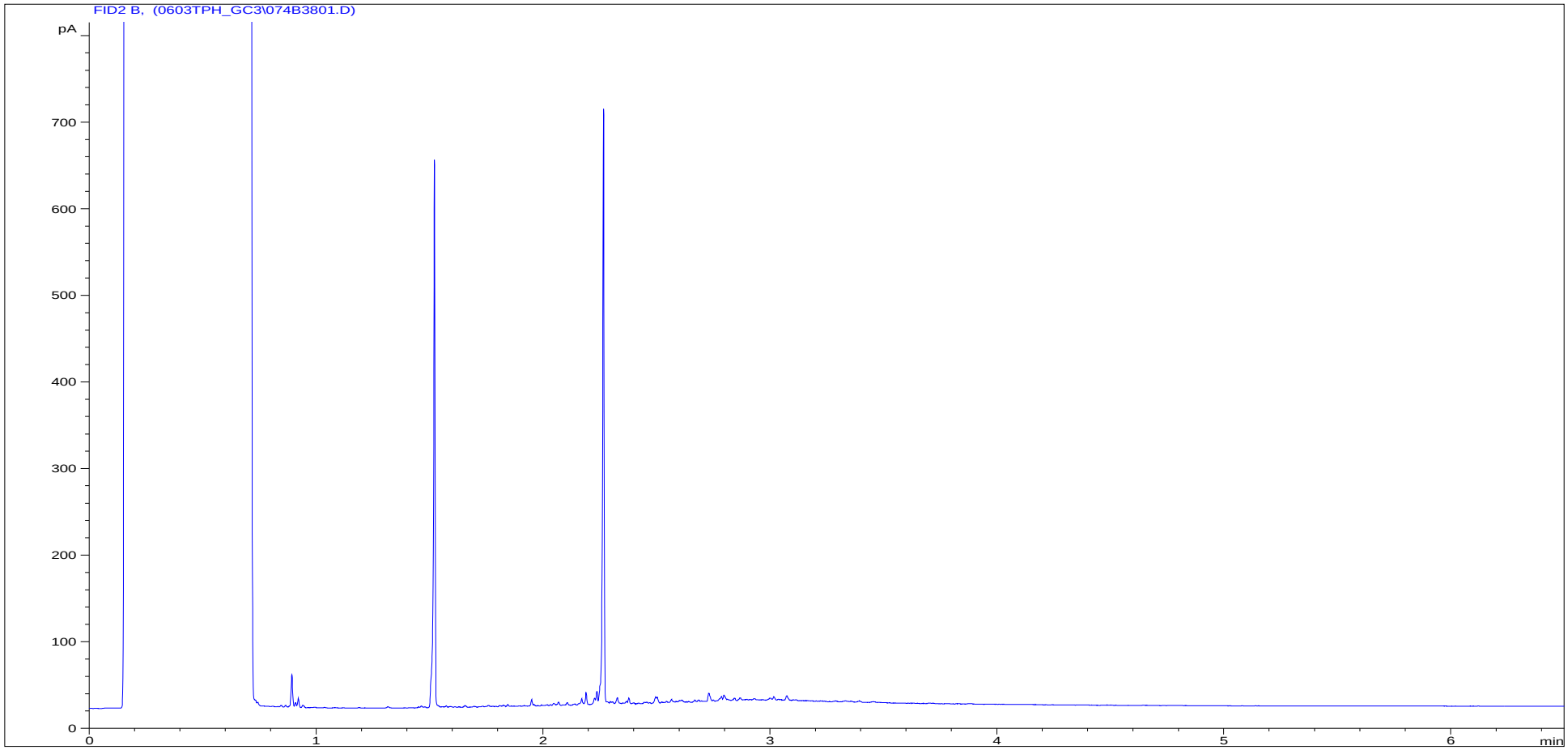
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120317ALI	**Job Number:**	S11_4391M
Multiplier:	15.2	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306605 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\025F3801.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

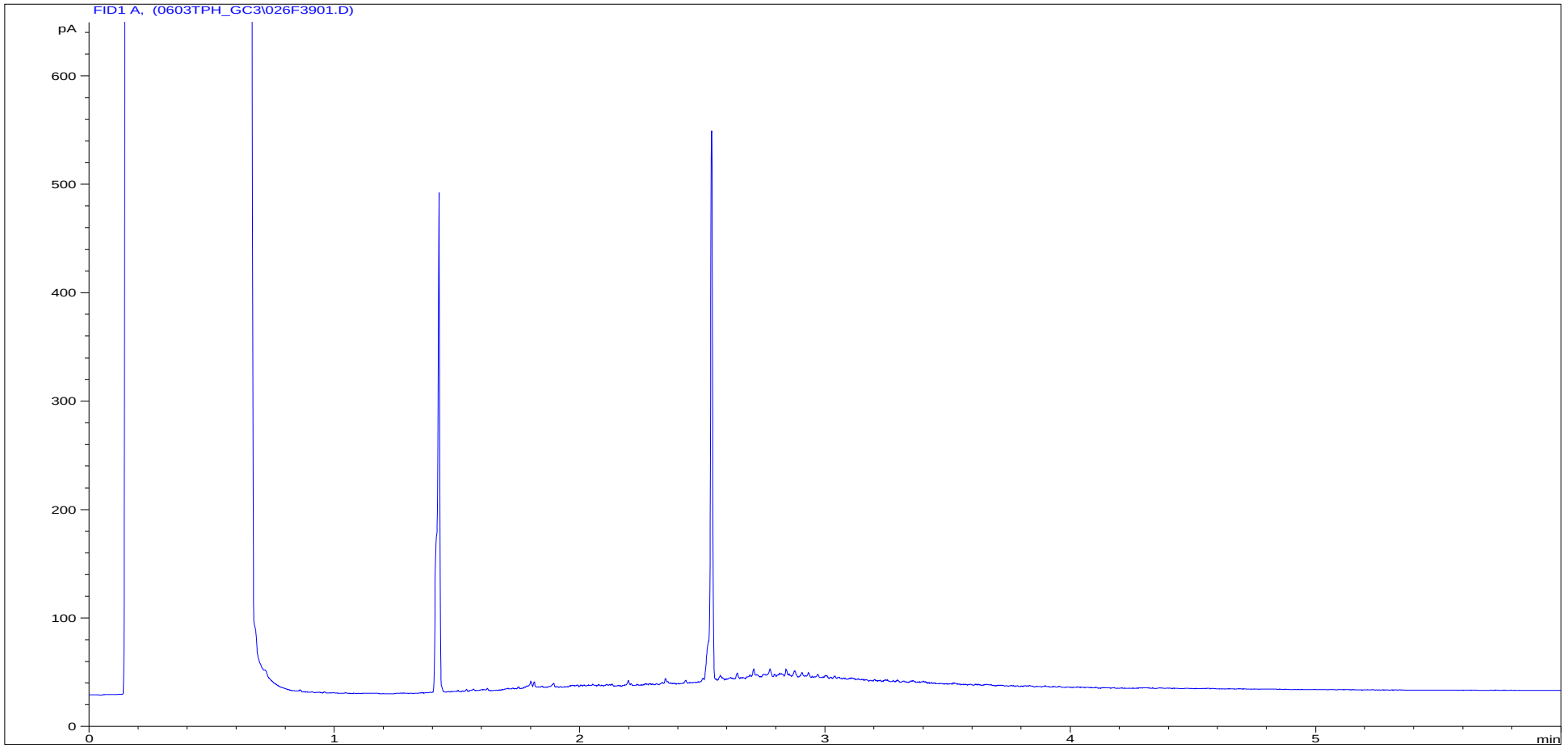
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120317ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306605 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\074B3801.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

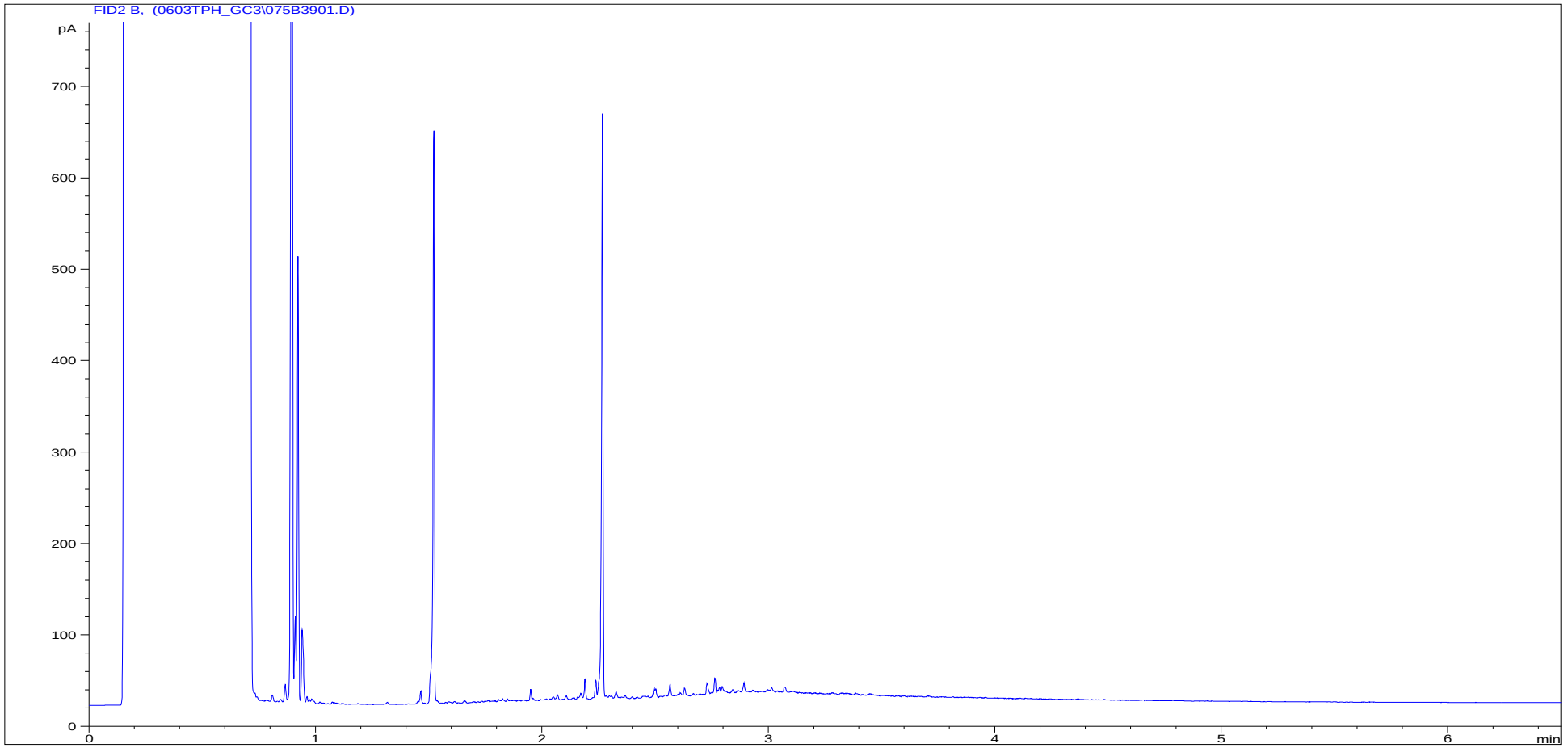
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120318ALI	**Job Number:**	S11_4391M
Multiplier:	14.44	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306606 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\026F3901.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120318ARO	**Job Number:**	S11_4391M
Multiplier:	11.4	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_RUNF.M	**Client Sample Ref:**	FV306606 ESC 1 0.20
Acquisition Date/Time:	03-Jun-11		
Datafile:	D:\TES\DATA\Y2011\MAY2011\0603TPH_GC3\075B3901.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306587 ESC 1 0.20
LIMS ID Number: CL1120299
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 30

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 29	-	N
Chloroethane	75-00-3	-	< 29	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	3.89	7	78	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 29	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	4.43	7	70	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 29	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 29	-	U
Hexachlorobutadiene	87-68-3 *	-	< 29	-	N
Naphthalene	91-20-3 *	-	< 29	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 29	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	68	D bromofluoromethane	94
1,4-Difluorobenzene	3.34	66	Toluene-d8	96
Chlorobenzene-d5	4.36	62	Bromofluorobenzene	88
1,4-Dichlorobenzene-d4	5.12	47		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306588 ESC 1 0.20
LIMS ID Number: CL1120300
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 31

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3	-	< 28	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	3.89	6	76	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	71	D bromofluoromethane	86
1,4-Difluorobenzene	3.34	68	Toluene-d8	94
Chlorobenzene-d5	4.36	61	Bromofluorobenzene	86
1,4-Dichlorobenzene-d4	5.12	45		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306589 ESC 1 0.20
LIMS ID Number: CL1120301
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 32

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3	-	< 28	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	3.89	6	79	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	69	D bromofluoromethane	99
1,4-Difluorobenzene	3.34	66	Toluene-d8	94
Chlorobenzene-d5	4.35	58	Bromofluorobenzene	84
1,4-Dichlorobenzene-d4	5.12	42		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306590 ESC 1 0.20
LIMS ID Number: CL1120302
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 33

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3	-	< 28	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	3.89	6	79	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	68	D bromofluoromethane	77
1,4-Difluorobenzene	3.34	63	Toluene-d8	100
Chlorobenzene-d5	4.35	59	Bromofluorobenzene	83
1,4-Dichlorobenzene-d4	5.12	43		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306591 ESC 1 0.20
LIMS ID Number: CL1120303
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 34

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3	-	< 28	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	3.89	6	79	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	64	D bromofluoromethane	101
1,4-Difluorobenzene	3.34	60	Toluene-d8	98
Chlorobenzene-d5	4.36	55	Bromofluorobenzene	83
1,4-Dichlorobenzene-d4	5.12	38		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306592 ESC 1 0.20
LIMS ID Number: CL1120304
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 35

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 27	-	N
Chloroethane	75-00-3	-	< 27	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	3.89	8	79	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 27	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 27	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 27	-	U
Hexachlorobutadiene	87-68-3 *	-	< 27	-	N
Naphthalene	91-20-3 *	-	< 27	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 27	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	66	D bromofluoromethane	99
1,4-Difluorobenzene	3.34	63	Toluene-d8	94
Chlorobenzene-d5	4.36	54	Bromofluorobenzene	81
1,4-Dichlorobenzene-d4	5.12	36		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306593 ESC 1 0.20
LIMS ID Number: CL1120305
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 36

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3	-	< 28	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	3.89	7	77	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	65	D bromofluoromethane	89
1,4-Difluorobenzene	3.34	60	Toluene-d8	98
Chlorobenzene-d5	4.36	55	Bromofluorobenzene	82
1,4-Dichlorobenzene-d4	5.12	38		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306594 ESC 1 0.20
LIMS ID Number: CL1120306
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 37

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 27	-	N
Chloroethane	75-00-3	-	< 27	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	3.89	5	76	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 27	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 27	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 27	-	U
Hexachlorobutadiene	87-68-3 *	-	< 27	-	N
Naphthalene	91-20-3 *	-	< 27	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 27	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	67	D bromofluoromethane	101
1,4-Difluorobenzene	3.34	64	Toluene-d8	94
Chlorobenzene-d5	4.36	57	Bromofluorobenzene	85
1,4-Dichlorobenzene-d4	5.12	41		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306595 ESC 1 0.20
LIMS ID Number: CL1120307
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 38

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 27	-	N
Chloroethane	75-00-3	-	< 27	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	3.89	6	75	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 27	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 27	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 27	-	U
Hexachlorobutadiene	87-68-3 *	-	< 27	-	N
Naphthalene	91-20-3 *	-	< 27	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 27	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	68	D bromofluoromethane	100
1,4-Difluorobenzene	3.34	63	Toluene-d8	95
Chlorobenzene-d5	4.36	57	Bromofluorobenzene	83
1,4-Dichlorobenzene-d4	5.12	40		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306596 ESC 1 0.20
LIMS ID Number: CL1120308
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 39

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 26	-	N
Chloroethane	75-00-3	-	< 26	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	3.89	9	80	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 26	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	4.43	7	69	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 26	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 26	-	U
Hexachlorobutadiene	87-68-3 *	-	< 26	-	N
Naphthalene	91-20-3 *	-	< 26	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 26	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	61	D bromofluoromethane	102
1,4-Difluorobenzene	3.34	58	Toluene-d8	93
Chlorobenzene-d5	4.36	51	Bromofluorobenzene	84
1,4-Dichlorobenzene-d4	5.12	36		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306597 ESC 1 0.20
LIMS ID Number: CL1120309
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 40

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 27	-	N
Chloroethane	75-00-3	-	< 27	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	3.89	5	79	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 27	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 27	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 27	-	U
Hexachlorobutadiene	87-68-3 *	-	< 27	-	N
Naphthalene	91-20-3 *	-	< 27	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 27	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	62	D bromofluoromethane	99
1,4-Difluorobenzene	3.34	62	Toluene-d8	93
Chlorobenzene-d5	4.36	54	Bromofluorobenzene	83
1,4-Dichlorobenzene-d4	5.12	38		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306598 ESC 1 0.20
LIMS ID Number: CL1120310
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 41

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 26	-	N
Chloroethane	75-00-3	-	< 26	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	-	< 5	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 26	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 26	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 26	-	U
Hexachlorobutadiene	87-68-3 *	-	< 26	-	N
Naphthalene	91-20-3 *	-	< 26	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 26	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	65	D bromofluoromethane	101
1,4-Difluorobenzene	3.34	62	Toluene-d8	93
Chlorobenzene-d5	4.36	55	Bromofluorobenzene	84
1,4-Dichlorobenzene-d4	5.12	40		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306599 ESC 1 0.20
LIMS ID Number: CL1120311
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 42

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 27	-	N
Chloroethane	75-00-3	-	< 27	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	3.89	6	76	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 27	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 27	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 27	-	U
Hexachlorobutadiene	87-68-3 *	-	< 27	-	N
Naphthalene	91-20-3 *	-	< 27	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 27	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	62	D bromofluoromethane	104
1,4-Difluorobenzene	3.34	59	Toluene-d8	94
Chlorobenzene-d5	4.36	51	Bromofluorobenzene	82
1,4-Dichlorobenzene-d4	5.12	36		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306600 ESC 1 0.20
LIMS ID Number: CL1120312
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 43

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 26	-	N
Chloroethane	75-00-3	-	< 26	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	3.89	5	79	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 26	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 26	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 26	-	U
Hexachlorobutadiene	87-68-3 *	-	< 26	-	N
Naphthalene	91-20-3 *	-	< 26	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 26	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	64	D bromofluoromethane	100
1,4-Difluorobenzene	3.34	61	Toluene-d8	94
Chlorobenzene-d5	4.36	54	Bromofluorobenzene	82
1,4-Dichlorobenzene-d4	5.12	37		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306601 ESC 1 0.20
LIMS ID Number: CL1120313
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 44

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 27	-	N
Chloroethane	75-00-3	-	< 27	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	3.89	5	77	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 27	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 27	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 27	-	U
Hexachlorobutadiene	87-68-3 *	-	< 27	-	N
Naphthalene	91-20-3 *	-	< 27	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 27	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	64	D bromofluoromethane	96
1,4-Difluorobenzene	3.34	61	Toluene-d8	92
Chlorobenzene-d5	4.36	52	Bromofluorobenzene	82
1,4-Dichlorobenzene-d4	5.12	34		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306602 ESC 1 0.20
LIMS ID Number: CL1120314
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 45

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 27	-	N
Chloroethane	75-00-3	-	< 27	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	-	< 5	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 27	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 27	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 27	-	U
Hexachlorobutadiene	87-68-3 *	-	< 27	-	N
Naphthalene	91-20-3 *	-	< 27	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 27	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	63	D bromofluoromethane	83
1,4-Difluorobenzene	3.34	61	Toluene-d8	93
Chlorobenzene-d5	4.36	54	Bromofluorobenzene	83
1,4-Dichlorobenzene-d4	5.12	37		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306603 ESC 1 0.20
LIMS ID Number: CL1120315
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 46

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 27	-	N
Chloroethane	75-00-3	-	< 27	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	3.89	8	78	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 27	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 27	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 27	-	U
Hexachlorobutadiene	87-68-3 *	-	< 27	-	N
Naphthalene	91-20-3 *	-	< 27	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 27	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	64	D bromofluoromethane	101
1,4-Difluorobenzene	3.34	61	Toluene-d8	93
Chlorobenzene-d5	4.35	52	Bromofluorobenzene	80
1,4-Dichlorobenzene-d4	5.12	34		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306604 ESC 1 0.20
LIMS ID Number: CL1120316
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 47

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3	-	< 28	-	UM
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	62	D bromofluoromethane	104
1,4-Difluorobenzene	3.34	58	Toluene-d8	88
Chlorobenzene-d5	4.35	49	Bromofluorobenzene	82
1,4-Dichlorobenzene-d4	5.12	33		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306605 ESC 1 0.20
LIMS ID Number: CL1120317
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 48

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 27	-	N
Chloroethane	75-00-3	-	< 27	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	-	< 5	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 27	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 5	-	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 27	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 27	-	U
Hexachlorobutadiene	87-68-3 *	-	< 27	-	N
Naphthalene	91-20-3 *	-	< 27	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 27	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	35	D bromofluoromethane	105
1,4-Difluorobenzene	3.34	33	Toluene-d8	95
Chlorobenzene-d5	4.36	32	Bromofluorobenzene	85
1,4-Dichlorobenzene-d4	5.12	23		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306606 ESC 1 0.20
LIMS ID Number: CL1120318
Job Number: S11_4391M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 24-May-11
Date Analysed: 07-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 49

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 5	-	UM
Chloromethane	74-87-3	-	< 5	-	UM
Vinyl Chloride	75-01-4 *	-	< 5	-	N
Bromomethane	74-83-9 *	-	< 27	-	N
Chloroethane	75-00-3	-	< 27	-	UM
Trichlorofluoromethane	75-69-4	-	< 5	-	UM
1,1-Dichloroethene	75-35-4	-	< 5	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 5	-	U
1,1-Dichloroethane	75-34-3	-	< 5	-	UM
2,2-Dichloropropane	594-20-7	-	< 5	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 5	-	UM
Bromochloromethane	74-97-5	-	< 5	-	UM
Chloroform	67-66-3	-	< 5	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 5	-	UM
Carbon Tetrachloride	56-23-5	-	< 5	-	UM
1,1-Dichloropropene	563-58-6	-	< 5	-	UM
Benzene	71-43-2	-	< 5	-	UM
1,2-Dichloroethane	107-06-2	-	< 5	-	UM
Trichloroethene	79-01-6	-	< 5	-	UM
1,2-Dichloropropane	78-87-5	-	< 5	-	UM
Dibromomethane	74-95-3	-	< 5	-	UM
Bromodichloromethane	75-27-4	-	< 5	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 5	-	N
Toluene	108-88-3	3.89	10	80	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 5	-	N
1,1,2-Trichloroethane	79-00-5	-	< 5	-	UM
Tetrachloroethene	127-18-4	-	< 27	-	UM
1,3-Dichloropropane	142-28-9	-	< 5	-	UM
Dibromochloromethane	124-48-1	-	< 5	-	UM
1,2-Dibromoethane	106-93-4	-	< 5	-	U
Chlorobenzene	108-90-7	-	< 5	-	UM
Ethy benzene	100-41-4	-	< 5	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 5	-	UM
m and p-Xylene	108-38-3/106-42-3	4.43	5	71	UM
o-Xylene	95-47-6	-	< 5	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 5	-	UM
Bromoform	75-25-2	-	< 5	-	UM
iso-Propylbenzene	98-82-8	-	< 5	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 5	-	U
Propylbenzene	103-65-1	-	< 5	-	U
Bromobenzene	108-86-1	-	< 5	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 5	-	U
2-Chlorotoluene	95-49-8	-	< 5	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 5	-	UM
4-Chlorotoluene	106-43-4	-	< 5	-	UM
tert-Butylbenzene	98-06-6	-	< 5	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 5	-	UM
sec-Buty benzene	135-98-8	-	< 5	-	UM
p-Isopropyltoluene	99-87-6	-	< 5	-	U
1,3-Dichlorobenzene	541-73-1	-	< 5	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 5	-	UM
n-Butylbenzene	104-51-8	-	< 5	-	U
1,2-Dichlorobenzene	95-50-1	-	< 5	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 27	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 27	-	U
Hexachlorobutadiene	87-68-3 *	-	< 27	-	N
Naphthalene	91-20-3 *	-	< 27	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 27	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	57	D bromofluoromethane	102
1,4-Difluorobenzene	3.34	56	Toluene-d8	89
Chlorobenzene-d5	4.36	45	Bromofluorobenzene	76
1,4-Dichlorobenzene-d4	5.12	26		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

SOIL Analysis

ESG Environmental Chemistry
Analytical and Deviating Sample Overview

S114391

Customer Soil Mechanics
Site Jackson CE, Warm-Up Track, OP
Report No S114391

Consignment No 21031
Date Logged 24-May-2011

Report Due 07-Jun-2011

ID Number	Description	MethodID	CustServ	GROHSA	ICPMSS									MCertS	PAHMSUS	PHEHPLC	TMSS	TPHUSSI	VOCSW8260
		Sampled	Report B	GRO (AA-2012)	Arsenic (MS)	Cadmium (MS)	Chromium (MS)	Copper (MS)	Lead (MS)	Mercury (MS)	Nickel (MS)	Selenium (MS)	Zinc (MS)	MCertS Analysis	PAH by MS.16(0.08)	Phenol - HPLC	Tot.Moisture @ 105C	TPH by GCFID (AR/Si)	VOC
Accredited to ISO17025			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CL/1120299	JC03b-FVPSamp-1-306587 0.2	20/05/11																	
CL/1120300	JC03b-FVPSamp-2-306588 0.2	20/05/11																	
CL/1120301	JC03b-FVPSamp-3-306589 0.2	20/05/11																	
CL/1120302	JC03b-FVPSamp-4-306590 0.2	20/05/11																	
CL/1120303	JC03b-FVPSamp-5-306591 0.2	20/05/11																	
CL/1120304	JC03b-FVPSamp-6-306592 0.2	20/05/11																	
CL/1120305	JC03b-FVPSamp-7-306593 0.2	20/05/11																	
CL/1120306	JC03b-FVPSamp-8-306594 0.2	20/05/11																	
CL/1120307	JC03b-FVPSamp-9-306595 0.2	20/05/11																	
CL/1120308	JC03b-FVPSamp-10-306596 0.	20/05/11																	
CL/1120309	JC03b-FVPSamp-11-306597 0.	20/05/11																	
CL/1120310	JC03b-FVPSamp-12-306598 0.	20/05/11																	
CL/1120311	JC03b-FVPSamp-13-306599 0.	20/05/11																	
CL/1120312	JC03b-FVPSamp-14-306600 0.	20/05/11																	
CL/1120313	JC03b-FVPSamp-15-306601 0.	20/05/11																	

Note: For analysis where the Report Due date is greater than 7 days (Volatiles, PAH, Pesticides, PCB, Phenols, Herbicides) or 2 days (BOD) after the sampling date, although we will do our utmost to prioritise your samples, they may become deviant whilst being processed in the Laboratory.

In this instance, please contact the Laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time

Requested Analysis Key

	Analysis Required
	Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
	No analysis scheduled
^	Analysis Subcontracted

Where individual results are flagged see report notes for status

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Customer Soil Mechanics
Site Jackson CE, Warm-Up Track, OP
Report No S114391

Consignment No 21031
Date Logged 24-May-2011

Report Due 07-Jun-2011

ID Number	Description	MethodID	CustServ	GROHSA	ICPMSS									MCertS	PAHMSUS	PHEHPLC	TMSS	TPHUSSI	VOCSW8260
		Sampled	Report B	GRO (AA-2012)	Arsenic (MS)	Cadmium (MS)	Chromium (MS)	Copper (MS)	Lead (MS)	Mercury (MS)	Nickel (MS)	Selenium (MS)	Zinc (MS)	MCertS Analysis	PAH by MS.16(0.08)	Phenol - HPLC	Tot.Moisture @ 105C	TPH by GCFID (AR/Si)	VOC
Accredited to ISO17025			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CL/1120314	JC03b-FVPSamp-16-306602 0.	20/05/11																	
CL/1120315	JC03b-FVPSamp-17-306603 0.	20/05/11																	
CL/1120316	JC03b-FVPSamp-18-306604 0.	20/05/11																	
CL/1120317	JC03b-FVPSamp-19-306605 0.	20/05/11																	
CL/1120318	JC03b-FVPSamp-20-306606 0.	20/05/11																	

Note: For analysis where the Report Due date is greater than 7 days (Volatiles, PAH, Pesticides, PCB, Phenols, Herbicides) or 2 days (BOD) after the sampling date, although we will do our utmost to prioritise your samples, they may become deviant whilst being processed in the Laboratory.

In this instance, please contact the Laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time

Requested Analysis Key

	Analysis Required
	Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
	No analysis scheduled
^	Analysis Subcontracted

Where individual results are flagged see report notes for status

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	GROHSA	As Received	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace GCFID
Soil	ICPMSS	Air Dried	Determination of Metals in soil samples by aqua regia digestion followed by ICPMS
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection
Soil	PHEHPLC	As Received	Determination of Phenols by methanol extraction followed by HPLC detection
Soil	TMSS	As Received	Determination of the Total Moisture content at 105ºC by loss on oven drying gravimetric analysis
Soil	TPHUSSI	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions.
Soil	VOCSW8100	As Received	Determination of Volatile Organic Compounds (VOC) by purge and trap followed by GCMS detection

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,
- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,
- Results are expressed as mg/kg
- SG is expressed as g/cm^3@ 15^{o}C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile
CR Denotes Crocidolite
AM Denotes Amosite
NAIIS No Asbestos Identified in Sample

Symbol Reference

^ Sub-contracted analysis. Note: The accreditation status is that assigned by the subcontract laboratory.
$$ Unable to analyse due to the nature of the sample
¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
¥ Results for guidance only due to possible interference
& Blank corrected result
I.S Insufficient sample to complete requested analysis
I.S(g) Insufficient sample to re-analyse, results for guidance only
Intf Unable to analyse due to interferences
N.D Not determined
N.Det Not detected
Req Analysis requested, see attached sheets for results
Þ Raised detection limit due to nature of the sample
***** All accreditation has been removed by the laboratory for this result
‡ MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

END OF REPORT

Sample Descriptions

Client : Soil Mechanics

Site : Jackson CE, Warm-Up Track, OP

Report Number : S11_4391M

Note: major constituent in upper case

Lab ID Number	Client ID	Description
CL/1120299	FV306587 ESC 1 0.20	Grey Stone SILT
CL/1120300	FV306588 ESC 1 0.20	Grey Stone SILT
CL/1120301	FV306589 ESC 1 0.20	Grey Stone SILT
CL/1120302	FV306590 ESC 1 0.20	Grey Stone SILT
CL/1120303	FV306591 ESC 1 0.20	Grey Stone SILT
CL/1120304	FV306592 ESC 1 0.20	Grey Stone SILT
CL/1120305	FV306593 ESC 1 0.20	Grey Stone SILT
CL/1120306	FV306594 ESC 1 0.20	Grey Stone SILT
CL/1120307	FV306595 ESC 1 0.20	Grey Stone SILT
CL/1120308	FV306596 ESC 1 0.20	Grey Stone SILT
CL/1120309	FV306597 ESC 1 0.20	Grey Stone SILT
CL/1120310	FV306598 ESC 1 0.20	Grey Stone SILT
CL/1120311	FV306599 ESC 1 0.20	Grey Stone SILT
CL/1120312	FV306600 ESC 1 0.20	Grey Stone SILT
CL/1120313	FV306601 ESC 1 0.20	Grey Stone SILT
CL/1120314	FV306602 ESC 1 0.20	Grey Stone SILT
CL/1120315	FV306603 ESC 1 0.20	Brown Stone SILT
CL/1120316	FV306604 ESC 1 0.20	Grey Stone SILT
CL/1120317	FV306605 ESC 1 0.20	Grey Stone SILT
CL/1120318	FV306606 ESC 1 0.20	Grey Stone SILT

END OF REPORT

Our Ref: EFS/114514M (Ver. 1)
Your Ref: R1080-11

June 8, 2011

Scientifics
Bretby Business Park
Ashby Road
Burton-on-Trent
Staffordshire
DE15 0YZ

Telephone: 01283 554400
Facsimile: 01283 554422

[redacted]
Environmental Services Group
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

For the attention of [redacted]

Dear [redacted]

SOIL Sample Analysis - Jackson CE, Warm-Up Track, OP

Samples from the above site have been analysed in accordance with the schedule supplied.
The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

The samples will be kept until the agreed date when they will be discarded. Please call [redacted] for an extension of this date.
Please be aware that from 1 January 2003 our policy for the retention of paper based laboratory records and analysis reports will be 6 years.

The work was carried out in accordance with Environmental Scientifics Group Ltd (Scientifics) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for Scientifics

[redacted]

Scientifics, P.O. Box 100, Burton-upon-trent, DE15 0XD Tel: 01283 554400 Fax: 01283 554422
Scientifics is a trading name of Environmental Scientifics Group Limited.
Registered No: 2880501

TEST REPORT
SOIL SAMPLE ANALYSIS

1252

Report No. EFS/114514M (Ver. 1)

Environmental Services Group
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

Site: Jackson CE, Warm-Up Track, OP

The 1 sample described in this report were logged for analysis by Scientifics on 26-May-2011. This report supersedes any versions previously issued by the laboratory.
The analysis was completed by: 08-Jun-2011

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS or MCERTS accredited
Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics.

The following tables are contained in this report:

On behalf of
Scientifics : [redacted]

Date of Issue: 08-Jun-2011

Accreditation Codes: **N** (Not Accredited), **U** (UKAS), **UM** (UKAS & MCERTS)
Tests marked '^' have been subcontracted to another laboratory.
(NVM) - denotes the sample matrix is dissimilar to matrices upon which the MCERTS validation was based, and is therefore not accredited for MCERTS.
All results are reported on a dry weight basis at 105^{o}C unless otherwise stated. (except QC samples)
Scientifics accepts no responsibility for any sampling not carried out by our personnel.

Units :		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	ug/kg			
Method Codes :		ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	ICPMSS	PAHMSUS	TMSS	TPHUSSI	VOCSW8100			
Method Reporting Limits :		0.3	0.2	1.2	1.6	0.7	0 5	2	0.5	16	0.08	0.2	10.0	5			
Accreditation Code:		UM	UM	UM	UM	UM	UM	UM	UM	UM		U					
Laboratory ID Number CL/	**Client Sample Description**	**Arsenic (MS)**	**Cadmium (MS)**	**Chromium (MS)**	**Copper (MS)**	**Lead (MS)**	**Mercury (MS)**	**Nickel (MS)**	**Selenium (MS)**	**Zinc (MS)**	**PAH by MS.16(0.08)**	**Tot.Moisture @ 105C**	**TPH by GCFID (AR/Si)**	**VOC by GCMS (8100)**			
1120786	FV306676 ESC 1 0.20	51 3	1.74	25	71.9	228.9	0 55	18	0.6	330.5	Req	9.8	Req	Req			

scientifics

Bretby Business Park, Ashby Road

Burton-on-Trent, Staffordshire, DE15 0YZ

Tel +44 (0) 1283 554400

Fax +44 (0) 1283 554422

Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Soils Sample Analysis

Date Printed	08-Jun-11
Report Number	**EFS/114514M**
Table Number	**1**

Where individual results are flagged see report notes for status.
Resu ts corrected to dry weight at 105ºC where appr opriate, in accordance with the MCERTS standard.

Units :		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg										
Method Codes :		GROHSA	PHEHPLC	PHEHPLC	PHEHPLC	PHEHPLC	PHEHPLC										
Method Reporting Limits :		0.2	0.3	0.3	0.3	0.3	0 3										
Accreditation Code:			UM	U	U	U	U										
Laboratory ID Number CL/	**Client Sample Description**	**GRO (AA-2012)**	**Phenol**	**Cresols**	**Xylenols**	**Trimethylphenols**	**Total Phenols**										
1120786	FV306676 ESC 1 0.20	Req	<0.3	<0.3	<0.3	<0.3	<1.3										

scientifics

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Tel +44 (0) 1283 554400

Fax +44 (0) 1283 554422

Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Soils Sample Analysis

Date Printed	08-Jun-11
Report Number	**EFS/114514M**
Table Number	**1**

Where individual results are flagged see report notes for status.
Resu ts corrected to dry weight at 105ºC where appr opriate, in accordance with the MCERTS standard.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306676 ESC 1 0.20	**Job Number:**	S11_4514M
LIMS ID Number:	CL1120786	**Date Booked in:**	26-May-11
QC Batch Number:	111192	**Date Extracted:**	06-Jun-11
Quantitation File:	Initial Calibration	**Date Analysed:**	06-Jun-11
Directory:	0611PAH.GC5\	**Matrix:**	Soil
Dilution:	1.0	**Ext Method:**	Ultrasonic

Accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit	Accr. code
Naphthalene	91-20-3	-	< 0.09	-	**UM**
Acenaphthylene	208-96-8	-	< 0.09	-	U
Acenaphthene	83-32-9	-	< 0.09	-	UM
Fluorene	86-73-7	-	< 0.09	-	UM
Phenanthrene	85-01-8	5.90	0.64	98	UM
Anthracene	120-12-7	5.95	0.20	98	U
Fluoranthene	206-44-0	7.28	1.49	78	UM
Pyrene	129-00-0	7.57	1.20	97	UM
Benzo[a]anthracene	56-55-3	9.29	0.70	94	UM
Chrysene	218-01-9	9.34	0.71	94	UM
Benzo[b]fluoranthene	205-99-2	10.84	1.03	90	UM
Benzo[k]fluoranthene	207-08-9	10.87	0.30	87	UM
Benzo[a]pyrene	50-32-8	11.27	0.71	97	UM
Indeno[1,2,3-cd]pyrene	193-39-5	12.67	0.58	74	UM
Dibenzo[a,h]anthracene	53-70-3	-	< 0.09	-	UM
Benzo[g,h,i]perylene	191-24-2	13.00	0.58	69	UM
Total (USEPA16) PAHs	-	-	< 8.63	-	N

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	110
Acenaphthene-d10	103
Phenanthrene-d10	100
Chrysene-d12	115
Perylene-d12	111

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	93
Terphenyl-d14	110

Concentrations are reported on a dry weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Gasoline Range Organics
(BTEX and Aromatic/Aliphatic Carbon Ranges)

Customer and Site Details:	Soil Mechanics : Jackson CE, Warm-Up Track, OP	**Matrix:**	Soil
Job Number:	s11_4514	**Date Booked in:**	26-May-11
Directory:	D:\TES\DATA\Y2011\0606HSA_GC9\060611A 2011-06-06 13-13-46\022F1701.D	**Date extracted:**	06-Jun-11
Method:	HEADSPACE GCFID	**Date Analysed:**	06-Jun-11, 18:30:37
Accreditation Code:	N	**Units:**	mg/kg

			Aromatics		Aliphatics		GRO	
Sample ID	**Client ID**		**C5 - C7**	**>C7 - C8**	**C5 - C6**	**>C6 - C8**	**C8-C10**	**C5 - C10**
* CL1120786	FV306676 ESC 1 0.20		<0.01	<0.01	<0.2	<0.2	<0.2	<0.2

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

ALIPHATIC / AROMATIC FRACTION BY GC/FID

Customer and Site Details: Soil Mechanics : Jackson CE, Warm-Up Track, OP
Job Number: S11_4514
QC Batch Number: 111192
Directory: D:\TES\DATA\Y2011\0606TPH_GC14\060611 2011-06-06 13-07-32\087B5001.D
Method: Ultra Sonic

Separation: Silica gel
Eluents: Hexane, DCM

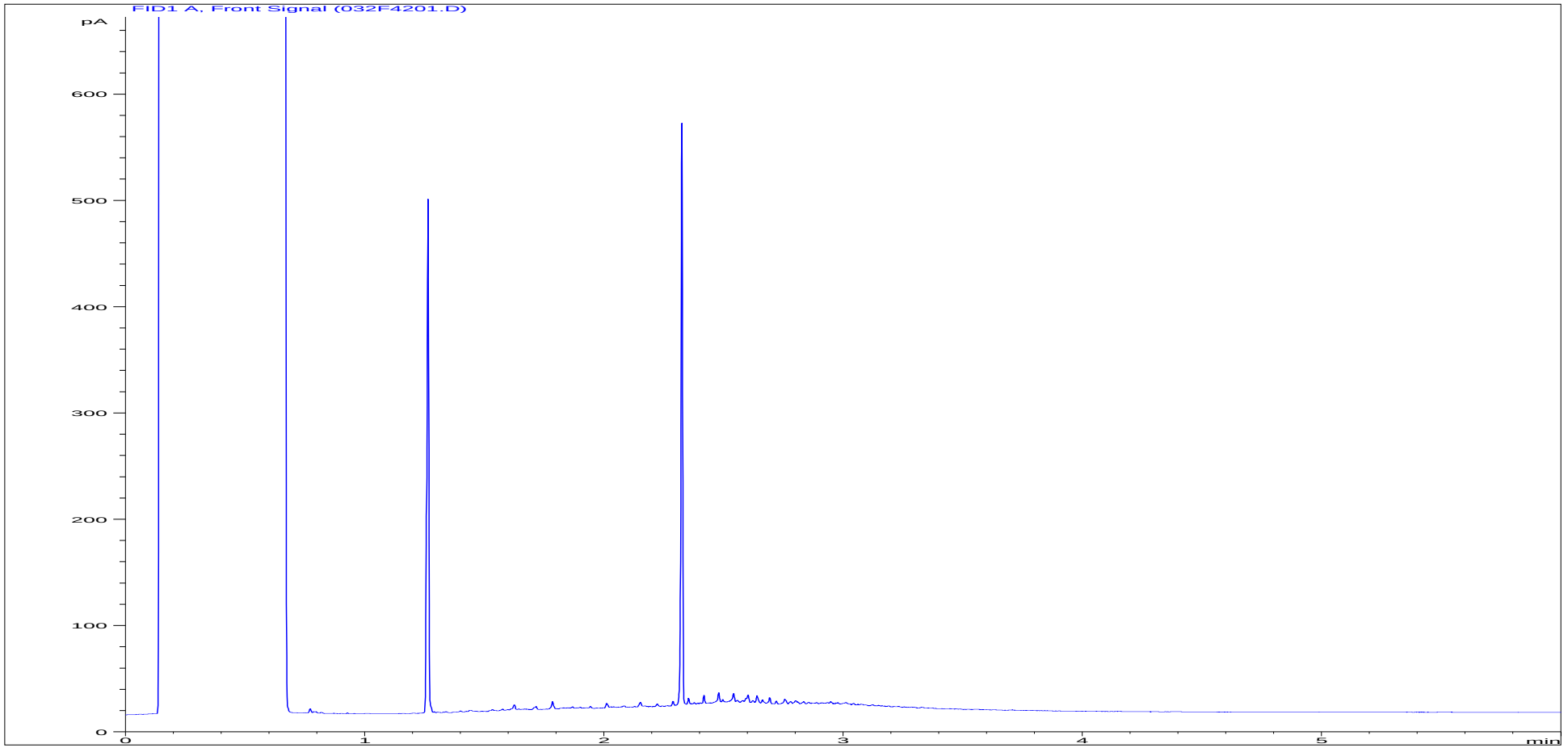
Matrix: Soil
Date Booked in 26-May-11
Date Extracted 06-Jun-11
Date Analysed: 07-Jun-11, 01:26:17

This sample data is not MCERTS accredited.
*** This sample data is not ISO17025 accredited.**

		Concentration, (mg/kg) - as dry weight.											
		>C8 - C10		>C10 - C12		>C12 - C16		>C16 - C21		>C21 - C35		>C8 - C40	
Sample ID	**Client ID**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**
CL1120786	FV306676 ESC 1 0.20	<4*	<4	<4	<4	6.05	<4	19.7	14	80.3	67.1	132	121

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

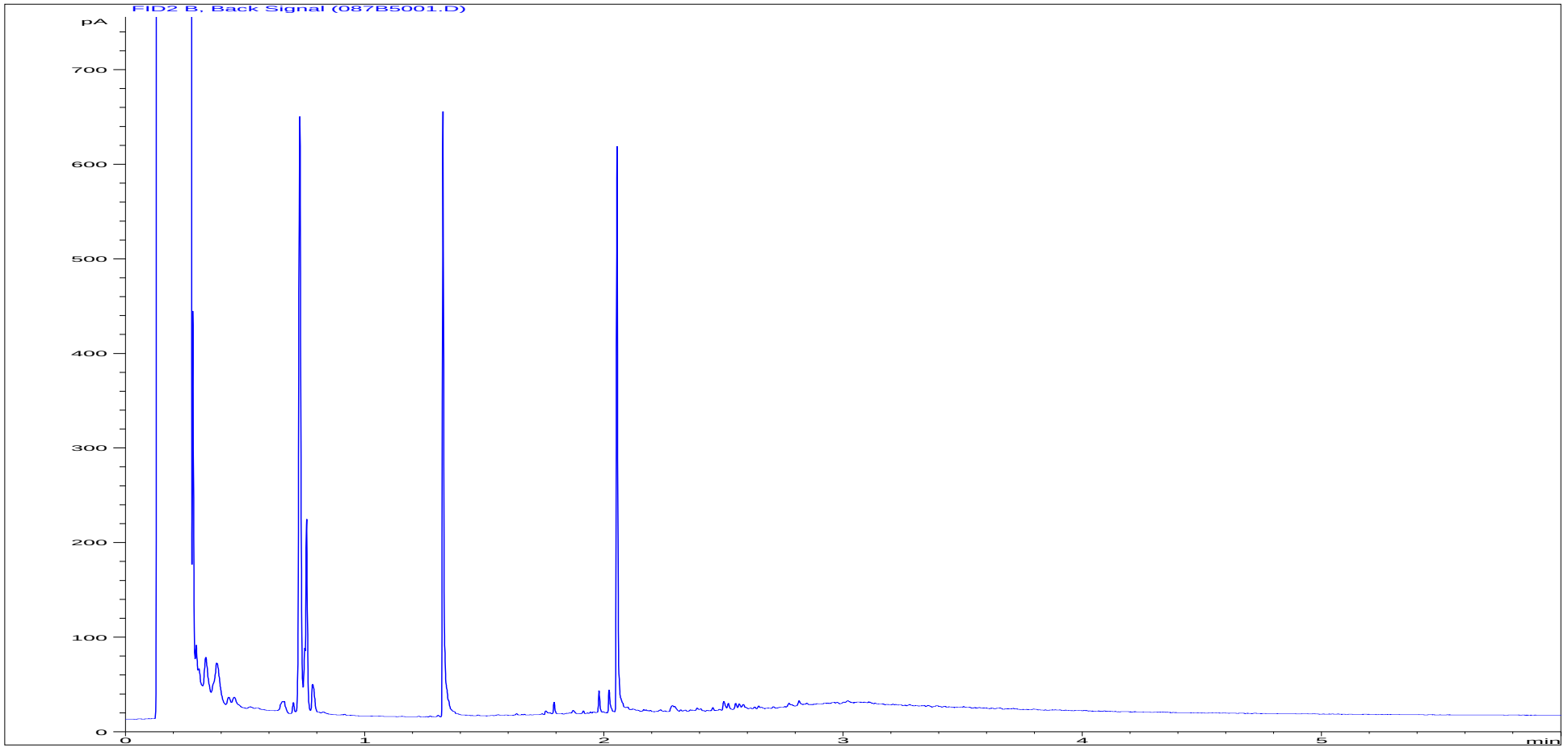
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1120786ALI	**Job Number:**	S11_4514M
Multiplier:	14.04	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306676 ESC 1 0.20
Acquisition Date/Time:	06-Jun-11, 23:50:55		
Datafile:	D:\TES\DATA\Y2011\0606TPH_GC14\060611 2011-06-06 13-07-32\032F4201.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1120786ARO	**Job Number:**	S11_4514M
Multiplier:	10.8	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	5UL_MAX_RUNF.M	**Client Sample Ref:**	FV306676 ESC 1 0.20
Acquisition Date/Time:	07-Jun-11, 01:26:17		
Datafile:	D:\TES\DATA\Y2011\0606TPH_GC14\060611 2011-06-06 13-07-32\087B5001.D		

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105℃ where appr opriate, in accordance with the MCERTS standard.

Volatile Organic Compounds by PTGCMS

Accredited?: Yes

Customer and Site Details: Soil Mechanics: Jackson CE, Warm-Up Track, OP
Sample Details: FV306676 ESC 1 0.20
LIMS ID Number: CL1120786
Job Number: S11_4514M

Directory/Quant file: 0606VOC.MS3\ Initial Calibration
Date Booked in: 26-May-11
Date Analysed: 06-Jun-11
Operator: TP

Matrix: Soil
Method: Purge & trap
Multiplier: 5
Position: 25

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Dichlorodifluoromethane	75-71-8	-	< 6	-	UM
Chloromethane	74-87-3	-	< 6	-	UM
Vinyl Chloride	75-01-4 *	-	< 6	-	N
Bromomethane	74-83-9 *	-	< 28	-	N
Chloroethane	75-00-3*	-	< 28	-	N
Trichlorofluoromethane	75-69-4	-	< 6	-	UM
1,1-Dichloroethene	75-35-4	-	< 6	-	UM
trans 1,2-Dichloroethene	156-60-5	-	< 6	-	U
1,1-Dichloroethane	75-34-3	-	< 6	-	UM
2,2-Dichloropropane	594-20-7	-	< 6	-	UM
cis 1,2-Dichloroethene	156-59-2	-	< 6	-	UM
Bromochloromethane	74-97-5	-	< 6	-	UM
Chloroform	67-66-3	-	< 6	-	UM
1,1,1-Trichloroethane	71-55-6	-	< 6	-	UM
Carbon Tetrachloride	56-23-5	-	< 6	-	UM
1,1-Dichloropropene	563-58-6	-	< 6	-	UM
Benzene	71-43-2	-	< 6	-	UM
1,2-Dichloroethane	107-06-2	-	< 6	-	UM
Trichloroethene	79-01-6	-	< 6	-	UM
1,2-Dichloropropane	78-87-5	-	< 6	-	UM
Dibromomethane	74-95-3	-	< 6	-	UM
Bromodichloromethane	75-27-4	-	< 6	-	UM
cis 1,3-Dichloropropene	10061-01-5 *	-	< 6	-	N
Toluene	108-88-3	-	< 6	-	UM
trans 1,3-Dichloropropene	10061-02-6 *	-	< 6	-	N
1,1,2-Trichloroethane	79-00-5	-	< 6	-	UM
Tetrachloroethene	127-18-4	-	< 28	-	UM
1,3-Dichloropropane	142-28-9	-	< 6	-	UM
Dibromochloromethane	124-48-1	-	< 6	-	UM
1,2-Dibromoethane	106-93-4	-	< 6	-	U
Chlorobenzene	108-90-7	-	< 6	-	UM
Ethy benzene	100-41-4	-	< 6	-	UM
1,1,1,2-Tetrachloroethane	630-20-6	-	< 6	-	UM
m and p-Xylene	108-38-3/106-42-3	-	< 6	-	UM
o-Xylene	95-47-6	-	< 6	-	UM

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit	Accr. code
Styrene	100-42-5	-	< 6	-	UM
Bromoform	75-25-2	-	< 6	-	UM
iso-Propylbenzene	98-82-8	-	< 6	-	UM
1,1,2,2-Tetrachloroethane	79-34-5	-	< 6	-	U
Propylbenzene	103-65-1	-	< 6	-	U
Bromobenzene	108-86-1	-	< 6	-	UM
1,2,3-Trichloropropane	96-18-4	-	< 6	-	U
2-Chlorotoluene	95-49-8	-	< 6	-	UM
1,3,5-Trimethylbenzene	108-67-8	-	< 6	-	UM
4-Chlorotoluene	106-43-4	-	< 6	-	UM
tert-Butylbenzene	98-06-6	-	< 6	-	U
1,2,4-Trimethylbenzene	95-63-6	-	< 6	-	UM
sec-Buty benzene	135-98-8	-	< 6	-	UM
p-Isopropyltoluene	99-87-6	-	< 6	-	U
1,3-Dichlorobenzene	541-73-1	-	< 6	-	UM
1,4-Dichlorobenzene	106-46-7	-	< 6	-	UM
n-Butylbenzene	104-51-8	-	< 6	-	U
1,2-Dichlorobenzene	95-50-1	-	< 6	-	UM
1,2-D bromo-3-chloropropane	96-12-8 *	-	< 28	-	N
1,2,4-Trichlorobenzene	120-82-1	-	< 28	-	U
Hexachlorobutadiene	87-68-3 *	-	< 28	-	N
Naphthalene	91-20-3 *	-	< 28	-	N
1,2,3-Trichlorobenzene	87-61-6	-	< 28	-	UM

Concentrations are reported on a dry weight basis

"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.05	73	D bromofluoromethane	32
1,4-Difluorobenzene	3.34	72	Toluene-d8	93
Chlorobenzene-d5	4.36	61	Bromofluorobenzene	83
1,4-Dichlorobenzene-d4	5.12	41		

This analysis was conducted on an 'As Recieved' basis.

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.
Results corrected to dry weight at 105 C where appropriate, in accordance with the MCERTS standard.

Analytical and Deviating Sample Overview

Customer Soil Mechanics
Site Jackson CE, Warm-Up Track, OP
Report No S114514

Consignment No 21087
Date Logged 26-May-2011

Report Due 08-Jun-2011

ID Number	Description	MethodID	CustServ	GROHSA	ICPMSS									MCertS	PAHMSUS	PHEHPLC	TMSS	TPHUSSI	VOCSW8100
		Sampled	Report B	GRO (AA-2012)	Arsenic (MS)	Cadmium (MS)	Chromium (MS)	Copper (MS)	Lead (MS)	Mercury (MS)	Nickel (MS)	Selenium (MS)	Zinc (MS)	MCertS Analysis	PAH by MS.16(0.08)	Phenol - HPLC	Tot.Moisture @ 105C	TPH by GCFID (AR/Si)	VOC
Accredited to ISO17025			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CL/1120786	JC03b-FVPsamp-1-306676 0.2	24/05/11																	

Note: For analysis where the Report Due date is greater than 7 days (Volatiles, PAH, Pesticides, PCB, Phenols, Herbicides) or 2 days (BOD) after the sampling date, although we will do our utmost to prioritise your samples, they may become deviant whilst being processed in the Laboratory.

In this instance, please contact the Laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time

Requested Analysis Key

	Analysis Required
	Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
	No analysis scheduled
^	Analysis Subcontracted

Where individual results are flagged see report notes for status

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	GROHSA	As Received	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace GCFID
Soil	ICPMSS	Air Dried	Determination of Metals in soil samples by aqua regia digestion followed by ICPMS
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection
Soil	PHEHPLC	As Received	Determination of Phenols by methanol extraction followed by HPLC detection
Soil	TMSS	As Received	Determination of the Total Moisture content at 105ºC by loss on oven drying gravimetric analysis
Soil	TPHUSSI	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions.
Soil	VOCSW8100	As Received	Determination of Volatile Organic Compounds (VOC) by purge and trap followed by GCMS detection

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,
- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,
- Results are expressed as mg/kg
- SG is expressed as g/cm^3@ 15^{o}C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile
CR Denotes Crocidolite
AM Denotes Amosite
NAIIS No Asbestos Identified in Sample

Symbol Reference

^ Sub-contracted analysis. Note: The accreditation status is that assigned by the subcontract laboratory.
$$ Unable to analyse due to the nature of the sample
¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
¥ Results for guidance only due to possible interference
& Blank corrected result
I.S Insufficient sample to complete requested analysis
I.S(g) Insufficient sample to re-analyse, results for guidance only
Intf Unable to analyse due to interferences
N.D Not determined
N.Det Not detected
Req Analysis requested, see attached sheets for results
Þ Raised detection limit due to nature of the sample
***** All accreditation has been removed by the laboratory for this result
‡ MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

END OF REPORT

Sample Descriptions

Client : Soil Mechanics

Site : Jackson CE, Warm-Up Track, OP

Report Number : S11_4514M

Note: major constituent in upper case

Lab ID Number	Client ID	Description
CL/1120786	FV306676 ESC 1 0.20	Brown Stone SILT

END OF REPORT

Our Ref: EXR/119890 (Ver. 1)
Your Ref: R1080-11

May 16, 2011

Scientifics
Bretby Business Park
Ashby Road
Burton-on-Trent
Staffordshire
DE15 0YZ

Telephone: 01283 554400
Facsimile: 01283 554422

[redacted]
Soil Mechanics
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

For the attention of [redacted]

Dear [redacted]

LEACHATE SAMPLE ANALYSIS - Jackson CE, Warm-Up Track, OP

Samples from the above site have been analysed in accordance with the schedule supplied.
The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Please be aware that from 1 January 2003 our policy for the retention of paper based laboratory records and analysis reports will be 6 years.

The work was carried out in accordance with Environmental Scientifics Group Ltd (Scientifics) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for Scientifics

[redacted]

TEST REPORT
LEACHATE SAMPLE ANALYSIS

1252

Report No. EXR/119890 (Ver. 1)

Soil Mechanics
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

Site: Jackson CE, Warm-Up Track, OP

The 10 samples described in this report were logged for analysis by Scientifics on 10-May-2011. This report supersedes any versions previously issued by the laboratory.
The analysis was completed by: 16-May-2011

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited
Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics.

The following tables are contained in this report:

On behalf of
Scientifics : [redacted]

Date of Issue: 16-May-2011

Tests marked '^' have been subcontracted to another laboratory.

Scientifics accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

		Units :	ug/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
		Method Codes :	VOCHSAW	ICPWATVAR	ICPMSW	ICPMSW	ICPMSW	PAHMSW	ICPMSW	ICPMSW	ICPMSW	ICPMSW	ICPWATVAR	ICPMSW	ICPMSW	KONENS	TPHFID-Si	GROHSA
		Method Reporting Limits :	1	3.0	0.001	0.001	0.0001	0 01	0.001	0.001	0.002	0.001	0.01	0.0001	0.001	0.01	0.01	0.1
		UKAS Accredited :	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no
Laboratory ID Number EX/	**Client Sample Description**	**Sample Date**	**Volatile Organic Compounds**	**Total Sulphur as SO4 (Dissolved) a**	**Nickel as Ni (Dissolved)**	**Chromium as Cr (Dissolved)**	**Cadmium as Cd (Dissolved)**	**PAH MS-SIM (16)**	**Copper as Cu (Dissolved)**	**Lead as Pb (Dissolved)**	**Zinc as Zn (Dissolved)**	**Arsenic as As (Dissolved)**	**Boron as B (Dissolved) a**	**Mercury as Hg (Dissolved)**	**Selenium as Se (Dissolved)**	**Ammoniacal Nitrogen as N**	**TPH GC (AA)**	**GRO-HSA (AA-OL)**
1119152	FV306448 ESC 1 0.20	20-Apr-11	Req	90	0.003	0.028	<0.0001	Req	0.013	0.001	0.019	0.003	0.05	<0.0001	0.004	0.15	Req	Req
1119153	FV306449 ESC 1 0.20	20-Apr-11	Req	105	0.007	0.007	<0.0001	Req	0.013	<0.001	0.015	0.005	0.04	<0.0001	0.005	0.12	Req	Req
1119154	FV306450 ESC 1 0.20	20-Apr-11	Req	40	0.001	0.008	<0.0001	Req	0.013	<0.001	0.033	0.002	0.03	<0.0001	0.002	0.07	Req	Req
1119155	FV306451 ESC 1 0.20	20-Apr-11	Req	101	0.002	0.006	<0.0001	Req	0.011	<0.001	0.019	0.003	0.1	<0.0001	0.003	0.09	Req	Req
1119156	FV306452 ESC 1 0.20	20-Apr-11	Req	99	0.003	0.013	<0.0001	Req	0.014	<0.001	0.024	0.003	0.11	<0.0001	0.005	0.10	Req	Req
1119157	FV306453 ESC 1 0.20	20-Apr-11	Req	180	0.003	0.005	<0.0001	Req	0.02	<0.001	0.016	0.009	0.08	<0.0001	0.004	1.3	Req	Req
1119158	FV306454 ESC 1 0.20	20-Apr-11	Req	167	0.002	0.004	<0.0001	Req	0.012	<0.001	0.019	0.004	0.06	<0.0001	0.007	0.19	Req	Req
1119159	FV306455 ESC 1 0.20	20-Apr-11	Req	77	0.002	0.004	<0.0001	Req	0.015	0.002	0.067	0.001	0.03	<0.0001	0.003	0.16	Req	Req
1119160	FV306456 ESC 1 0.20	20-Apr-11	Req	135	0.003	0.005	<0.0001	Req	0.017	<0.001	0.022	0.004	0.12	<0.0001	0.004	0.14	Req	Req
1119161	FV306457 ESC 1 0.20	20-Apr-11	Req	165	0.002	0.006	<0.0001	Req	0.011	0.001	0.013	0.005	0.07	<0.0001	0.004	0.11	Req	Req

scientifics

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Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Leachate Sample Analysis

Date Printed	16-May-11
Report Number	**EXR/119890**
Table Number	**1**

Where individual results are flagged see report notes for status.

		Units :	mg/l	mg/l	mg/l	mg/l													
		Method Codes :	PHEHPLC	PHEHPLC	PHEHPLC	PHEHPLC													
		Method Reporting Limits :	0.0005	0.0005	0.0005	0 0005													
		UKAS Accredited :	no	no	no	no													
Laboratory ID Number EX/	**Client Sample Description**	**Sample Date**	**Phenol**	**Cresols**	**Dimethylphenols**	**Trimethylphenols**													
1119152	FV306448 ESC 1 0.20	20-Apr-11	0.0006	<0.0005	<0.0005	<0 0005													
1119153	FV306449 ESC 1 0.20	20-Apr-11	0.0011	<0.0005	<0.0005	<0 0005													
1119154	FV306450 ESC 1 0.20	20-Apr-11	0.0009	<0.0005	<0.0005	<0 0005													
1119155	FV306451 ESC 1 0.20	20-Apr-11	0.0007	<0.0005	<0.0005	<0 0005													
1119156	FV306452 ESC 1 0.20	20-Apr-11	0.0010	<0.0005	<0.0005	<0 0005													
1119157	FV306453 ESC 1 0.20	20-Apr-11	<0.0005	<0.0005	<0.0005	<0 0005													
1119158	FV306454 ESC 1 0.20	20-Apr-11	<0.0005	<0.0005	<0.0005	<0 0005													
1119159	FV306455 ESC 1 0.20	20-Apr-11	0.0008	0.0010	<0.0005	<0 0005													
1119160	FV306456 ESC 1 0.20	20-Apr-11	<0.0005	0.0022	<0.0005	<0 0005													
1119161	FV306457 ESC 1 0.20	20-Apr-11	0.0006	0.0020	<0.0005	<0 0005													

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Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Leachate Sample Analysis

Date Printed	16-May-11
Report Number	**EXR/119890**
Table Number	**1**

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306448 ESC 1 0.20	**Job Number:**	W11_9890
LIMS ID Number:	EX1119152	**Date Booked in:**	10-May-11
QC Batch Number:	110430	**Date Extracted:**	12-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	13-May-11
Directory:	0511PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.04	0.093	M
Acenaphthylene	208-96-8	4.08	2.940	100
Acenaphthene	83-32-9	4.20	2.070	99
Fluorene	86-73-7	4.56	6.030	99
Phenanthrene	85-01-8	5.36	20.300	100
Anthracene	120-12-7	5.40	6.840	100
Fluoranthene	206-44-0	6.64	3.550	100
Pyrene	129-00-0	6.91	4.030	100
Benzo[a]anthracene	56-55-3	8.56	0.363	100
Chrysene	218-01-9	8.61	0.331	100
Benzo[b]fluoranthene	205-99-2	10.08	0.122	M
Benzo[k]fluoranthene	207-08-9	10.11	0.040	M
Benzo[a]pyrene	50-32-8	10.50	0.105	M
Indeno[1,2,3-cd]pyrene	193-39-5	11.88	0.042	M
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	12.17	0.045	M
Total (USEPA16) PAHs	-	-	< 46.911	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	113
Acenaphthene-d10	116
Phenanthrene-d10	116
Chrysene-d12	113
Perylene-d12	113

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	67
Terphenyl-d14	79

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306449 ESC 1 0.20	**Job Number:**	W11_9890
LIMS ID Number:	EX1119153	**Date Booked in:**	10-May-11
QC Batch Number:	110430	**Date Extracted:**	12-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	13-May-11
Directory:	0511PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.1	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.04	0.174	100
Acenaphthylene	208-96-8	4.08	0.016	M
Acenaphthene	83-32-9	4.20	0.093	M
Fluorene	86-73-7	4.56	0.023	M
Phenanthrene	85-01-8	5.36	0.084	M
Anthracene	120-12-7	5.41	0.032	M
Fluoranthene	206-44-0	6.64	0.043	M
Pyrene	129-00-0	6.91	0.038	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.583	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	115
Acenaphthene-d10	115
Phenanthrene-d10	114
Chrysene-d12	110
Perylene-d12	112

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	73
Terphenyl-d14	83

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306450 ESC 1 0.20	**Job Number:**	W11_9890
LIMS ID Number:	EX1119154	**Date Booked in:**	10-May-11
QC Batch Number:	110430	**Date Extracted:**	12-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	13-May-11
Directory:	0511PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.04	0.177	M
Acenaphthylene	208-96-8	4.08	0.011	M
Acenaphthene	83-32-9	4.20	0.058	M
Fluorene	86-73-7	4.57	0.011	M
Phenanthrene	85-01-8	5.36	0.060	M
Anthracene	120-12-7	5.41	0.019	M
Fluoranthene	206-44-0	6.64	0.046	M
Pyrene	129-00-0	6.91	0.036	M
Benzo[a]anthracene	56-55-3	8.56	0.018	M
Chrysene	218-01-9	8.62	0.010	M
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.506	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	104
Acenaphthene-d10	102
Phenanthrene-d10	99
Chrysene-d12	90
Perylene-d12	91

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	75
Terphenyl-d14	83

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306451 ESC 1 0.20	**Job Number:**	W11_9890
LIMS ID Number:	EX1119155	**Date Booked in:**	10-May-11
QC Batch Number:	110430	**Date Extracted:**	12-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	13-May-11
Directory:	0511PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.223	100
Acenaphthylene	208-96-8	4.08	0.011	M
Acenaphthene	83-32-9	4.20	0.112	M
Fluorene	86-73-7	4.57	0.012	M
Phenanthrene	85-01-8	5.36	0.044	M
Anthracene	120-12-7	5.41	0.020	M
Fluoranthene	206-44-0	6.64	0.049	M
Pyrene	129-00-0	6.91	0.044	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.595	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	108
Acenaphthene-d10	109
Phenanthrene-d10	110
Chrysene-d12	107
Perylene-d12	105

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	72
Terphenyl-d14	83

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306452 ESC 1 0.20	**Job Number:**	W11_9890
LIMS ID Number:	EX1119156	**Date Booked in:**	10-May-11
QC Batch Number:	110430	**Date Extracted:**	12-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	13-May-11
Directory:	0511PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.222	100
Acenaphthylene	208-96-8	4.09	0.016	M
Acenaphthene	83-32-9	4.20	0.151	M
Fluorene	86-73-7	4.56	0.030	M
Phenanthrene	85-01-8	5.36	0.123	100
Anthracene	120-12-7	5.41	0.035	100
Fluoranthene	206-44-0	6.64	0.069	M
Pyrene	129-00-0	6.91	0.087	M
Benzo[a]anthracene	56-55-3	8.56	0.033	M
Chrysene	218-01-9	8.62	0.024	M
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.850	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	99
Acenaphthene-d10	99
Phenanthrene-d10	99
Chrysene-d12	94
Perylene-d12	95

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	78
Terphenyl-d14	92

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306453 ESC 1 0.20	**Job Number:**	W11_9890
LIMS ID Number:	EX1119157	**Date Booked in:**	10-May-11
QC Batch Number:	110430	**Date Extracted:**	12-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	13-May-11
Directory:	0511PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.04	0.114	M
Acenaphthylene	208-96-8	4.08	0.010	M
Acenaphthene	83-32-9	4.20	0.086	M
Fluorene	86-73-7	4.57	0.015	M
Phenanthrene	85-01-8	5.36	0.056	M
Anthracene	120-12-7	5.41	0.021	M
Fluoranthene	206-44-0	6.64	0.046	M
Pyrene	129-00-0	6.92	0.043	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.471	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	109
Acenaphthene-d10	108
Phenanthrene-d10	104
Chrysene-d12	95
Perylene-d12	95

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	72
Terphenyl-d14	81

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306454 ESC 1 0.20	**Job Number:**	W11_9890
LIMS ID Number:	EX1119158	**Date Booked in:**	10-May-11
QC Batch Number:	110430	**Date Extracted:**	12-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	13-May-11
Directory:	0511PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.04	0.181	100
Acenaphthylene	208-96-8	-	< 0.010	-
Acenaphthene	83-32-9	4.20	0.078	M
Fluorene	86-73-7	4.56	0.015	M
Phenanthrene	85-01-8	5.36	0.053	M
Anthracene	120-12-7	5.41	0.016	M
Fluoranthene	206-44-0	6.64	0.032	M
Pyrene	129-00-0	6.92	0.029	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.494	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	114
Acenaphthene-d10	113
Phenanthrene-d10	113
Chrysene-d12	112
Perylene-d12	113

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	64
Terphenyl-d14	78

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306455 ESC 1 0.20	**Job Number:**	W11_9890
LIMS ID Number:	EX1119159	**Date Booked in:**	10-May-11
QC Batch Number:	110430	**Date Extracted:**	12-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	13-May-11
Directory:	0511PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.04	53.300	D
Acenaphthylene	208-96-8	4.08	0.188	100
Acenaphthene	83-32-9	4.20	0.634	90
Fluorene	86-73-7	4.56	0.149	97
Phenanthrene	85-01-8	5.36	0.195	100
Anthracene	120-12-7	5.41	0.045	100
Fluoranthene	206-44-0	6.64	0.032	M
Pyrene	129-00-0	6.92	0.031	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 54.654	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	109
Acenaphthene-d10	107
Phenanthrene-d10	109
Chrysene-d12	110
Perylene-d12	115

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	65
Terphenyl-d14	76

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306456 ESC 1 0.20	**Job Number:**	W11_9890
LIMS ID Number:	EX1119160	**Date Booked in:**	10-May-11
QC Batch Number:	110430	**Date Extracted:**	12-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	13-May-11
Directory:	0511PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.04	0.613	100
Acenaphthylene	208-96-8	4.09	0.023	M
Acenaphthene	83-32-9	4.20	0.383	93
Fluorene	86-73-7	4.56	0.056	M
Phenanthrene	85-01-8	5.36	0.131	100
Anthracene	120-12-7	5.41	0.039	100
Fluoranthene	206-44-0	6.64	0.035	M
Pyrene	129-00-0	6.92	0.028	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 1.388	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	111
Acenaphthene-d10	111
Phenanthrene-d10	112
Chrysene-d12	108
Perylene-d12	108

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	69
Terphenyl-d14	84

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV306457 ESC 1 0.20	**Job Number:**	W11_9890
LIMS ID Number:	EX1119161	**Date Booked in:**	10-May-11
QC Batch Number:	110430	**Date Extracted:**	12-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	13-May-11
Directory:	0511PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.04	0.208	100
Acenaphthylene	208-96-8	4.08	0.021	M
Acenaphthene	83-32-9	4.20	0.133	M
Fluorene	86-73-7	4.56	0.038	M
Phenanthrene	85-01-8	5.36	0.178	100
Anthracene	120-12-7	5.41	0.061	100
Fluoranthene	206-44-0	6.64	0.133	M
Pyrene	129-00-0	6.91	0.096	M
Benzo[a]anthracene	56-55-3	8.57	0.034	M
Chrysene	218-01-9	8.61	0.019	M
Benzo[b]fluoranthene	205-99-2	10.09	0.014	M
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.985	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	114
Acenaphthene-d10	114
Phenanthrene-d10	113
Chrysene-d12	112
Perylene-d12	112

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	71
Terphenyl-d14	84

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Gasoline Range Organics
(BTEX and Aromatic/Aliphatic Carbon Ranges)

Customer and Site Details: Soil Mechanics : Jackson CE, Warm-Up Track, OP
Job Number: W11_9890
Directory: D:\TES\DATA\Y2011\0512HSA_GC12\051211B 2011-05-12 16-38-00\121B0301.D
Method: HEADSPACE GCFID

Matrix: LEACHATE
Date Booked in: 10-May-11
Date extracted: 13-May-11
Date Analysed: 12-May-11, 18:06:04
Units: mg/l

*** Sample data with an asterisk are not UKAS accredited.**

			Aromatics		Aliphatics		GRO	
Sample ID		**Client ID**	**C5 - C7**	**>C7 - C8**	**C5 - C6**	**>C6 - C8**	**C8-C10**	**C5 - C10**
*	EX1119152	FV306448 ESC 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1119153	FV306449 ESC 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1119154	FV306450 ESC 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1119155	FV306451 ESC 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1119156	FV306452 ESC 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1119157	FV306453 ESC 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1119158	FV306454 ESC 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1119159	FV306455 ESC 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1119160	FV306456 ESC 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1119161	FV306457 ESC 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1

Where individual results are flagged see report notes for status.

ALIPHATIC / AROMATIC FRACTION BY GC/FID

Customer and Site Details: Soil Mechanics : Jackson CE, Warm-Up Track, OP
Job Number: W11_9890
QC Batch Number: 110230
Directory: D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\081B3801.D
Method: Separating Funnel

Separation: Silica gel
Eluents: Hexane, DCM

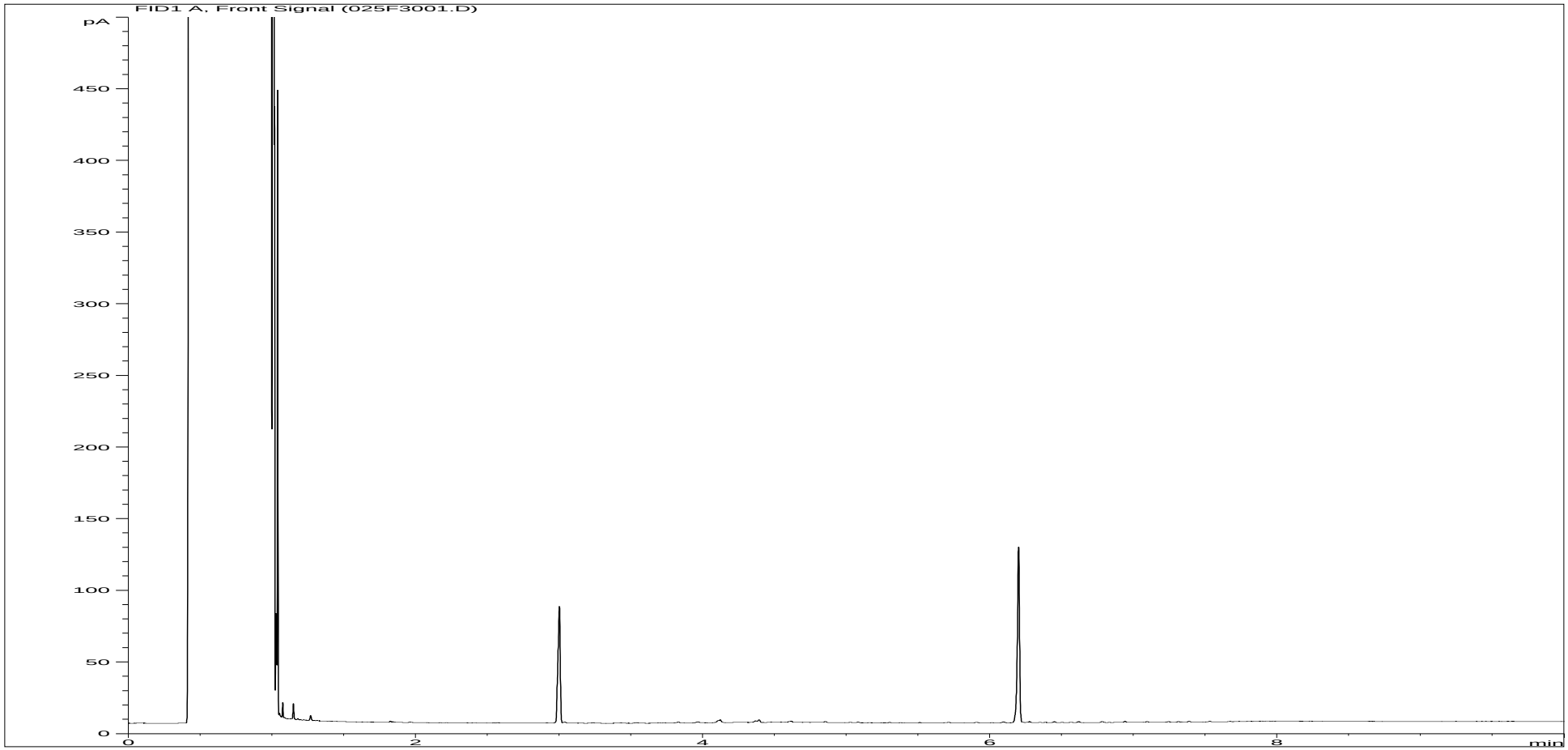
Matrix: Leachate
Date Booked in 10-May-11
Date Extracted 12-May-11
Date Analysed 13-May-11, 21:31:26

*** This sample data is not UKAS accredited.**

		Concentration, (mg/l)											
		>C8 - C10		>C10 - C12		>C12 - C16		>C16 - C21		>C21 - C35		>C8 - C40	
Sample ID	**Client ID**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**
EX1119152	FV306448 ESC 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	0.046	<0.01	0.132	0.012	0 028	0.025	0.212
EX1119153	FV306449 ESC 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1119154	FV306450 ESC 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1119155	FV306451 ESC 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1119156	FV306452 ESC 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1119157	FV306453 ESC 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1119158	FV306454 ESC 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1119159	FV306455 ESC 1 0.20	<0 01	<0.01	<0.01	0.055	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.066
EX1119160	FV306456 ESC 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1119161	FV306457 ESC 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Where individual results are flagged see report notes for status.

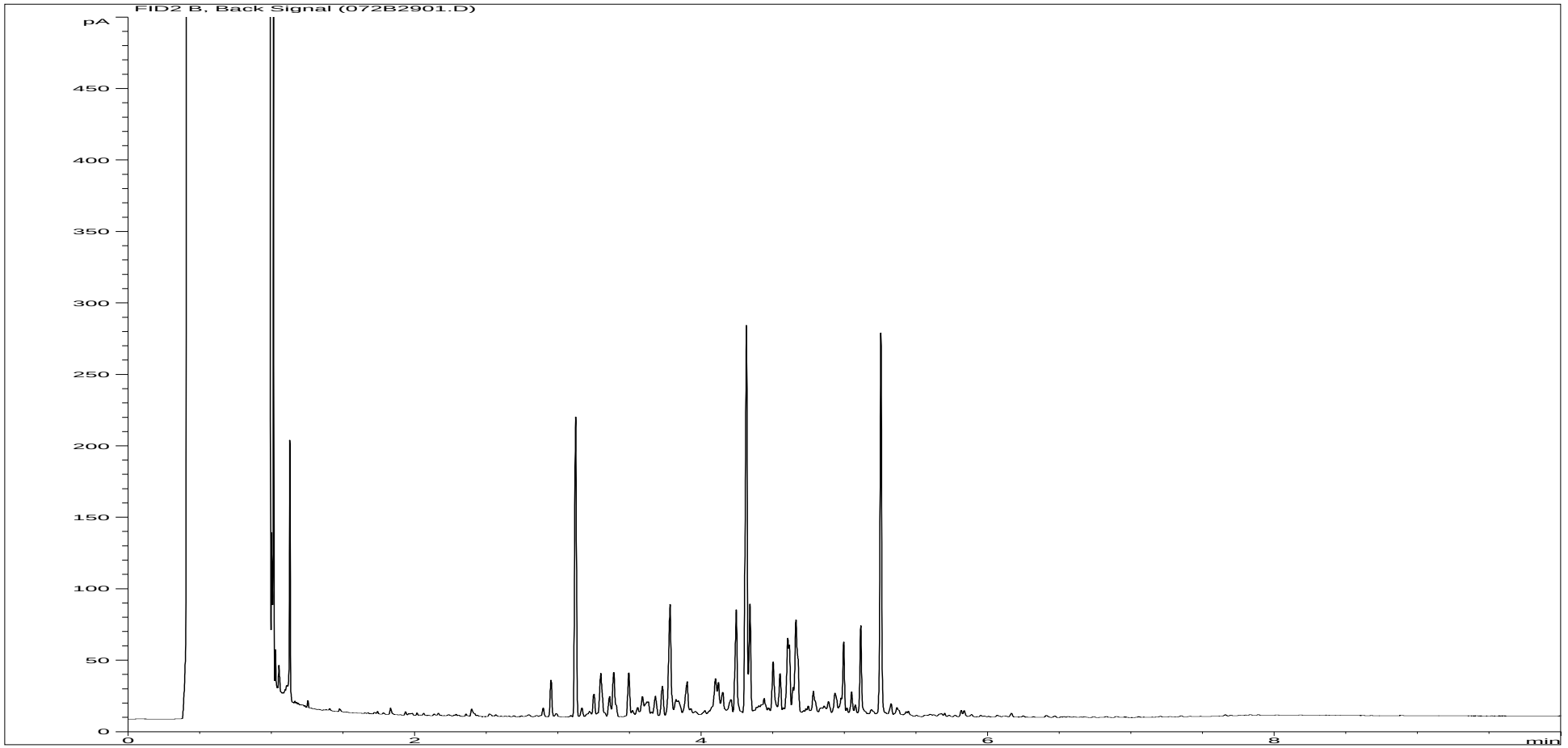
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1119152ALI	**Job Number:**	W11_9890
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306448 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 19:13:32		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\025F3001.D		

Where individual results are flagged see report notes for status.

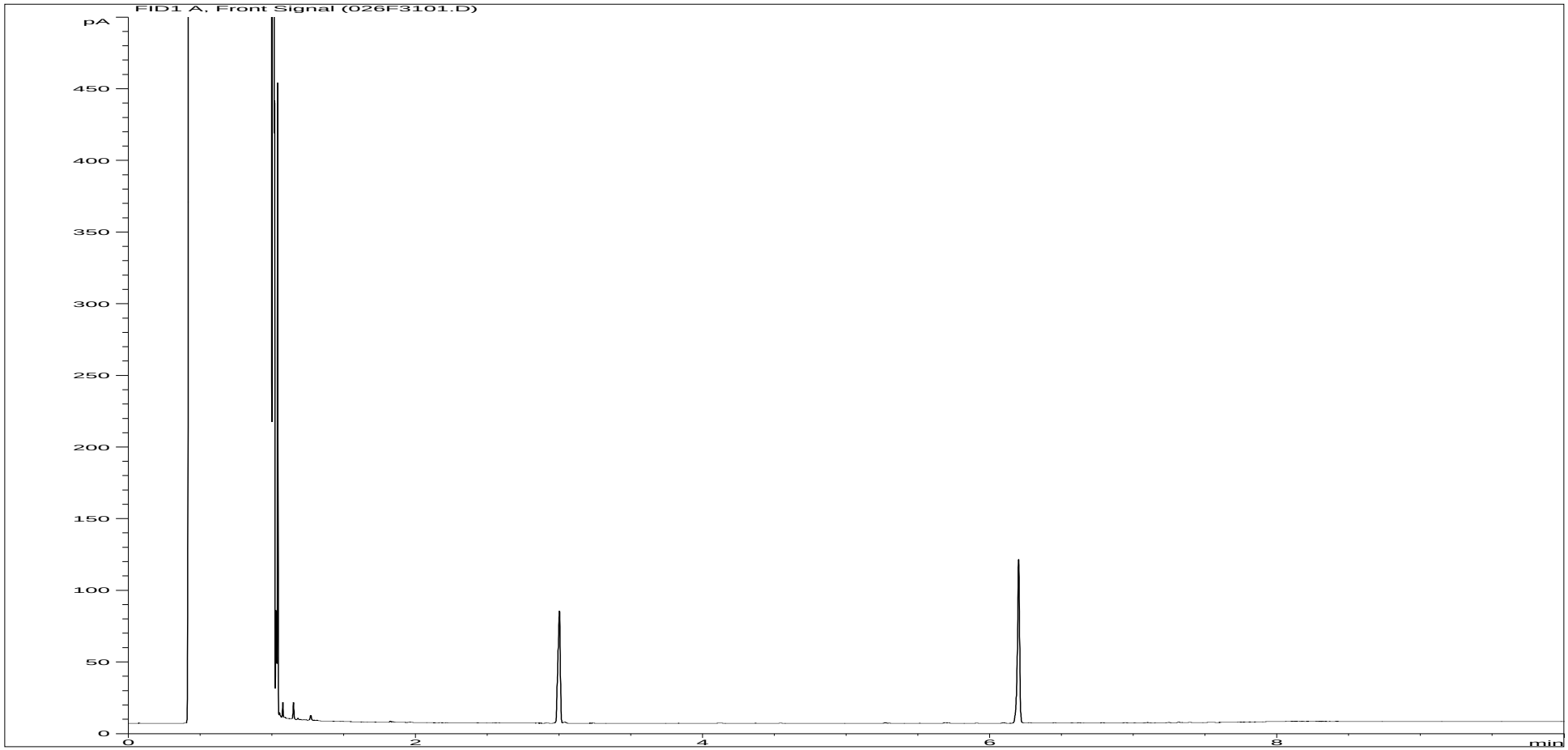
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1119152ARO	**Job Number:**	W11_9890
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306448 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 18:56:22		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\072B2901.D		

Where individual results are flagged see report notes for status.

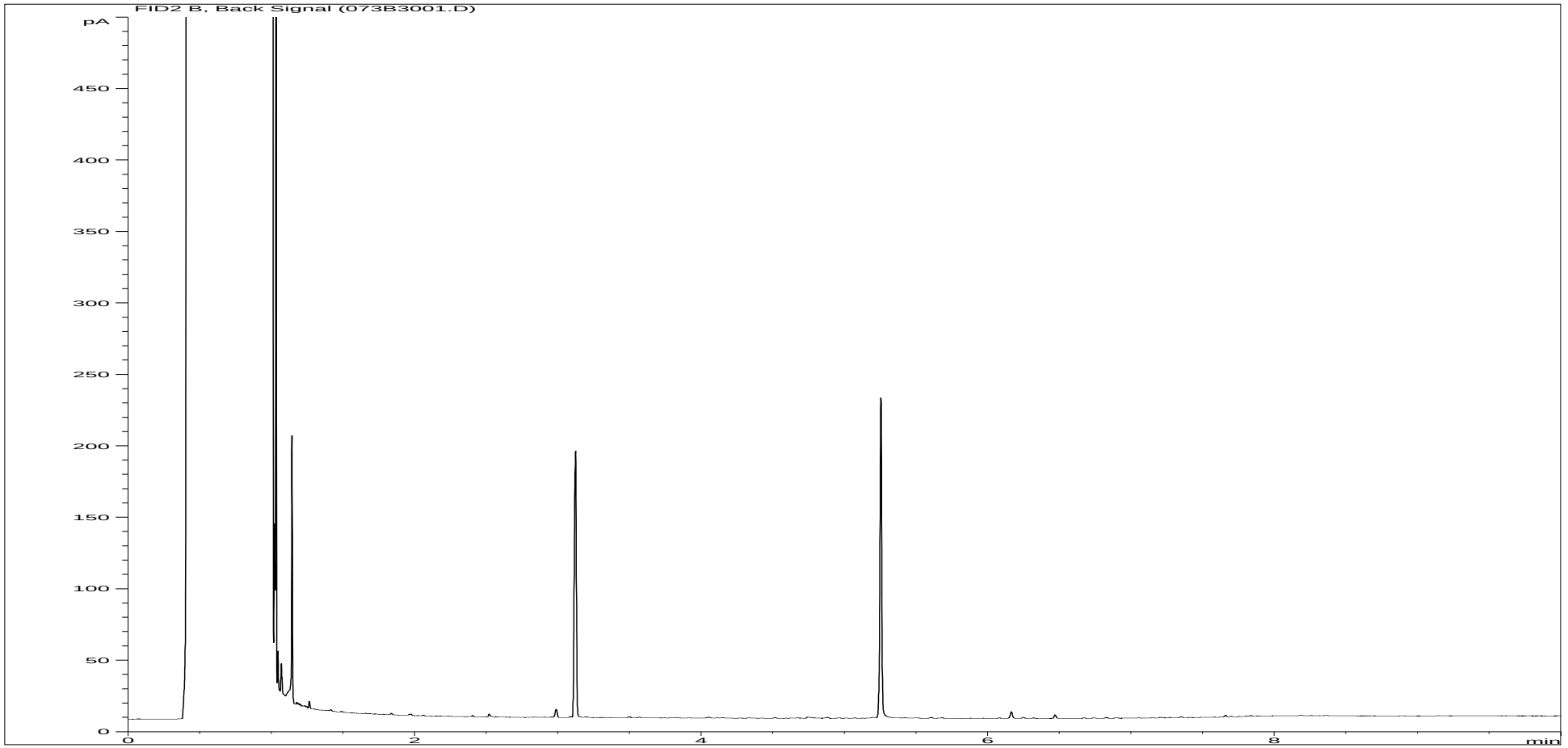
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1119153ALI	**Job Number:**	W11_9890
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306449 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 19:30:46		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\026F3101.D		

Where individual results are flagged see report notes for status.

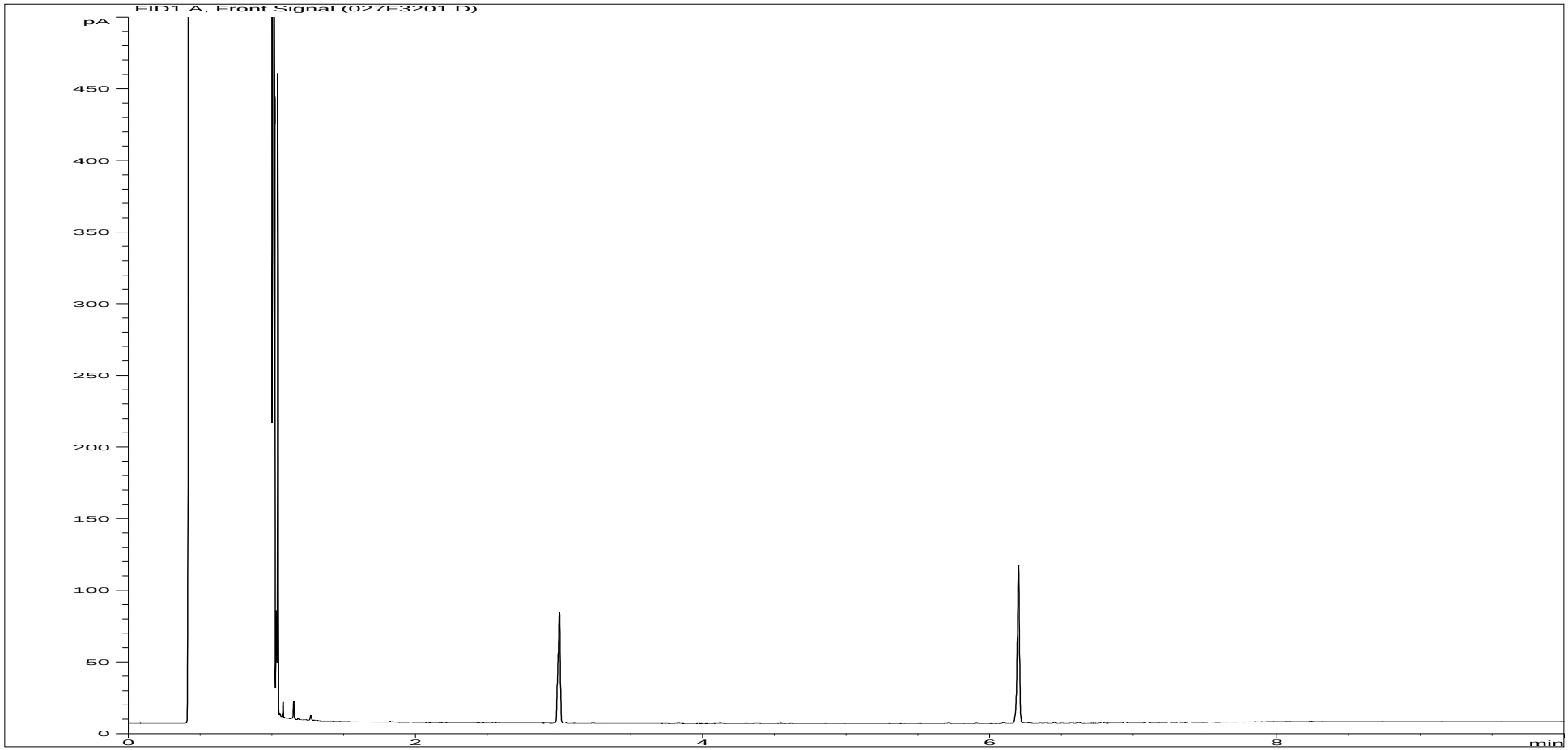
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1119153ARO	**Job Number:**	W11_9890
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306449 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 19:13:32		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\073B3001.D		

Where individual results are flagged see report notes for status.

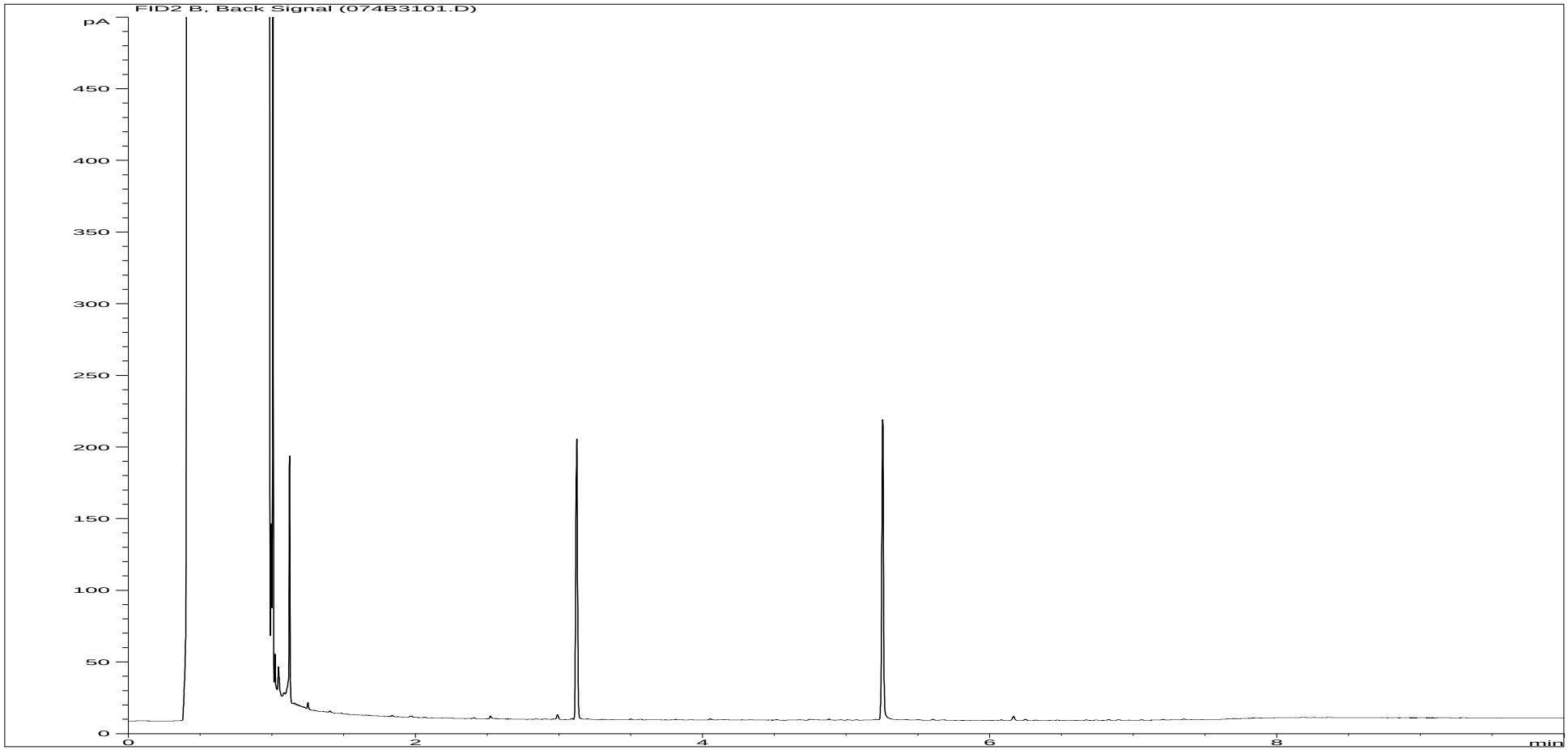
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1119154ALI	**Job Number:**	W11_9890
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306450 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 19:47:54		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\027F3201.D		

Where individual results are flagged see report notes for status.

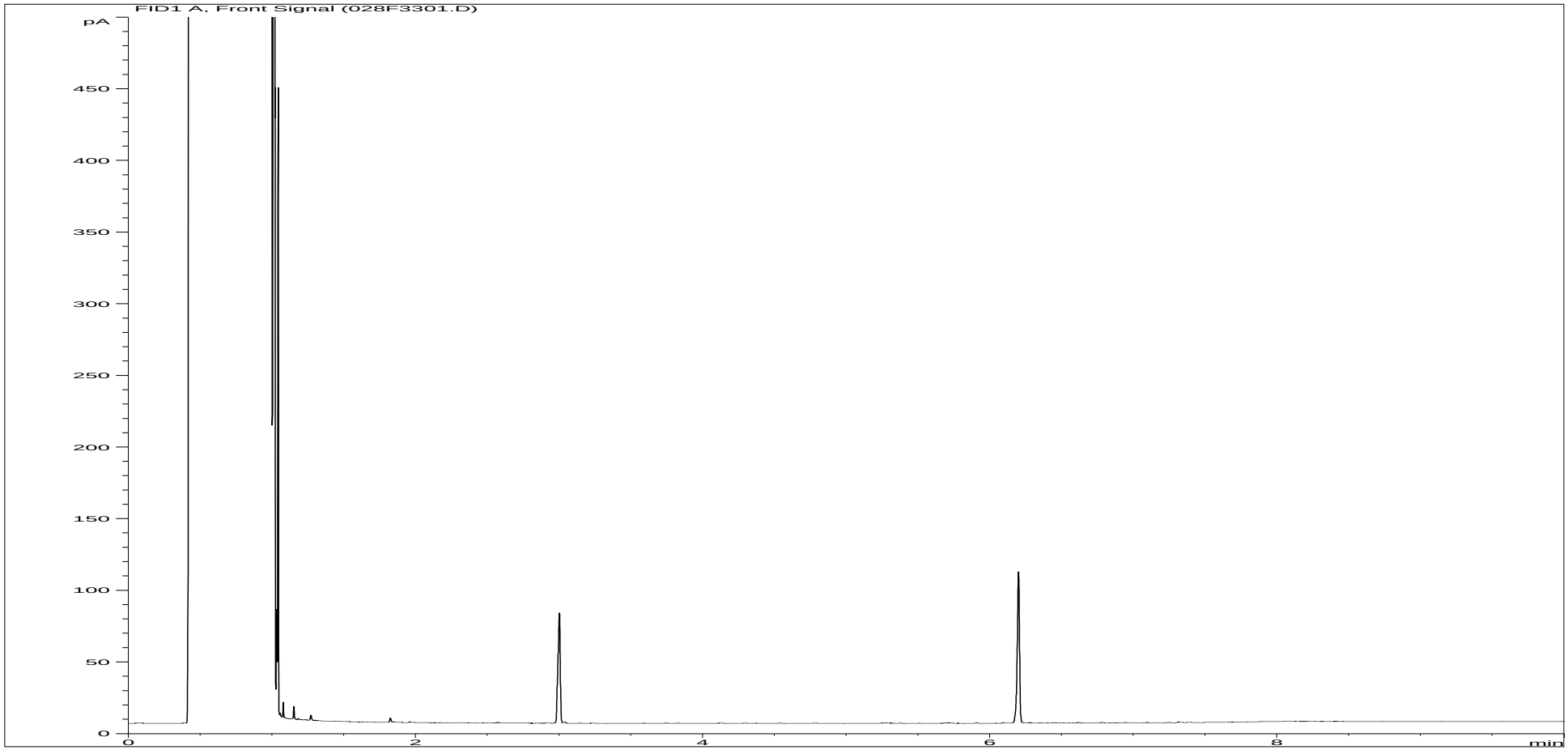
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1119154ARO	**Job Number:**	W11_9890
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306450 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 19:30:46		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\074B3101.D		

Where individual results are flagged see report notes for status.

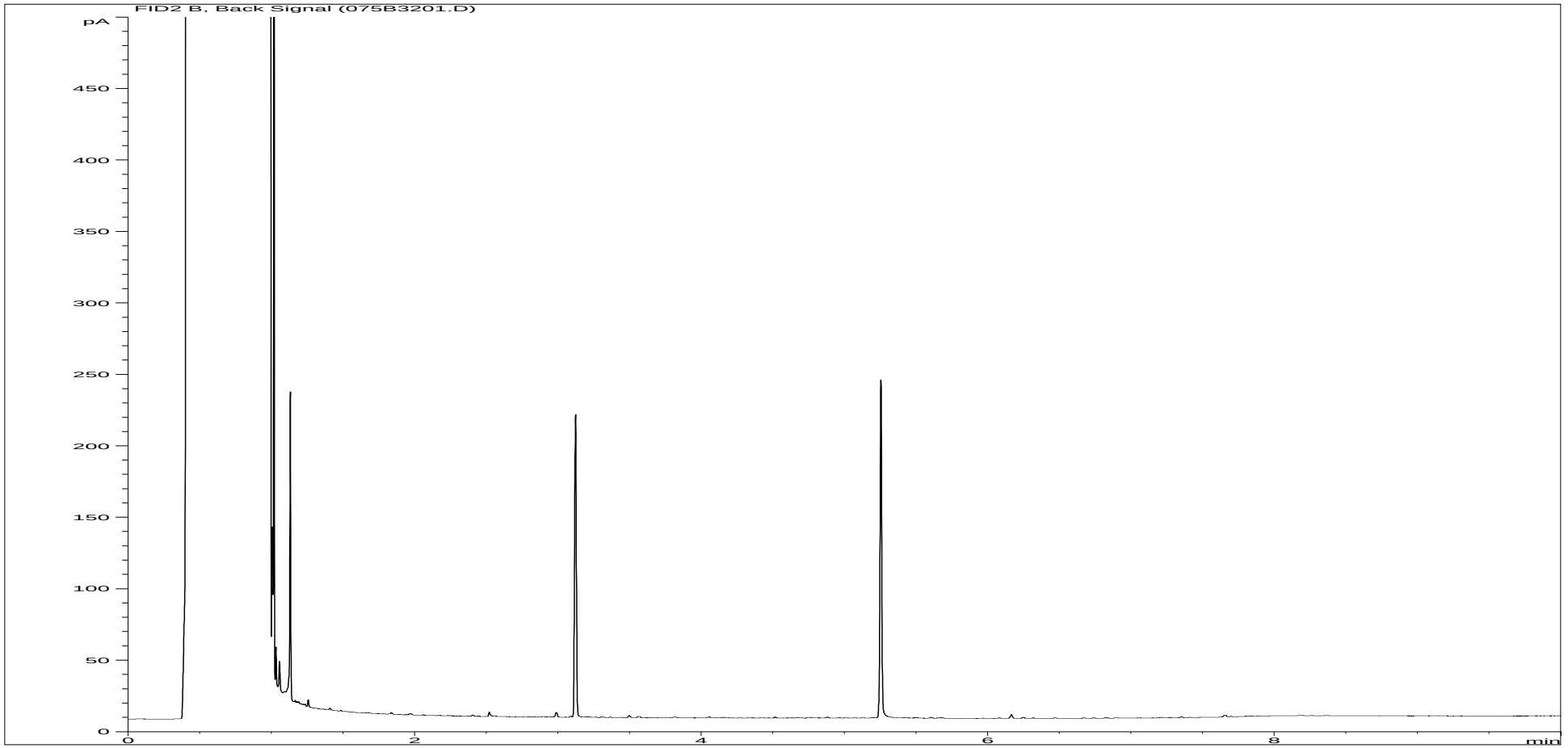
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1119155ALI	**Job Number:**	W11_9890
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306451 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 20:05:15		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\028F3301.D		

Where individual results are flagged see report notes for status.

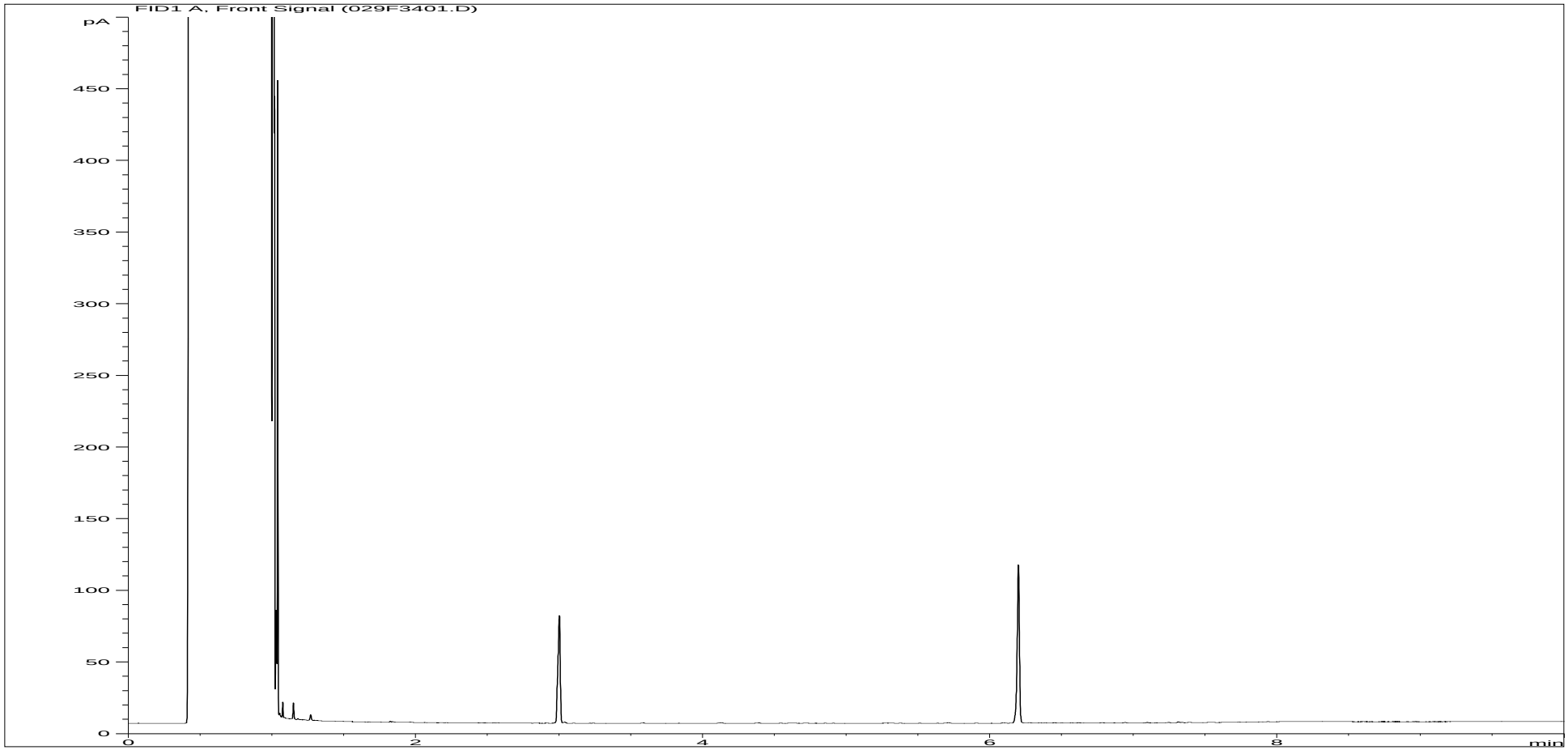
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1119155ARO	**Job Number:**	W11_9890
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306451 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 19:47:54		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\075B3201.D		

Where individual results are flagged see report notes for status.

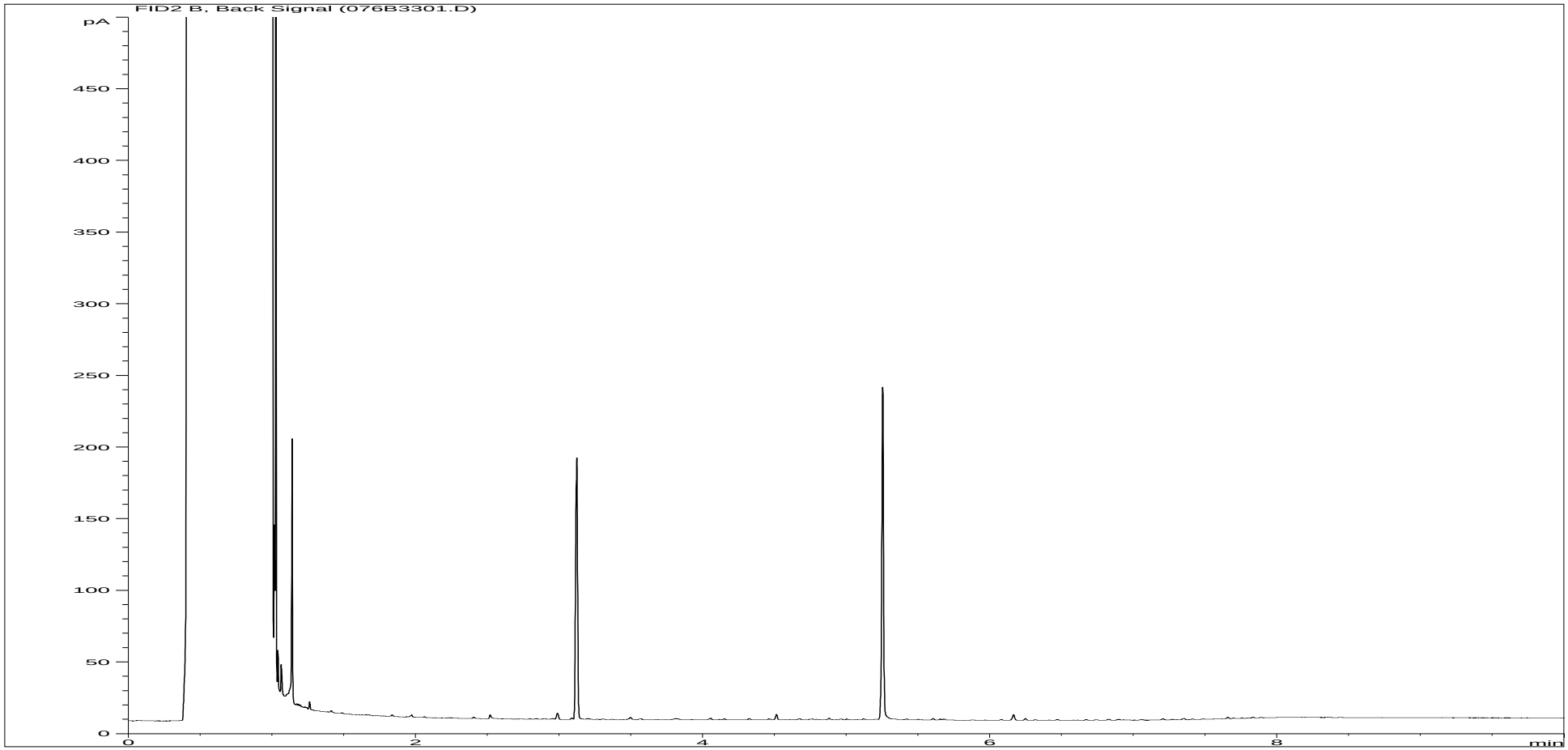
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1119156ALI	**Job Number:**	W11_9890
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306452 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 20:22:26		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\029F3401.D		

Where individual results are flagged see report notes for status.

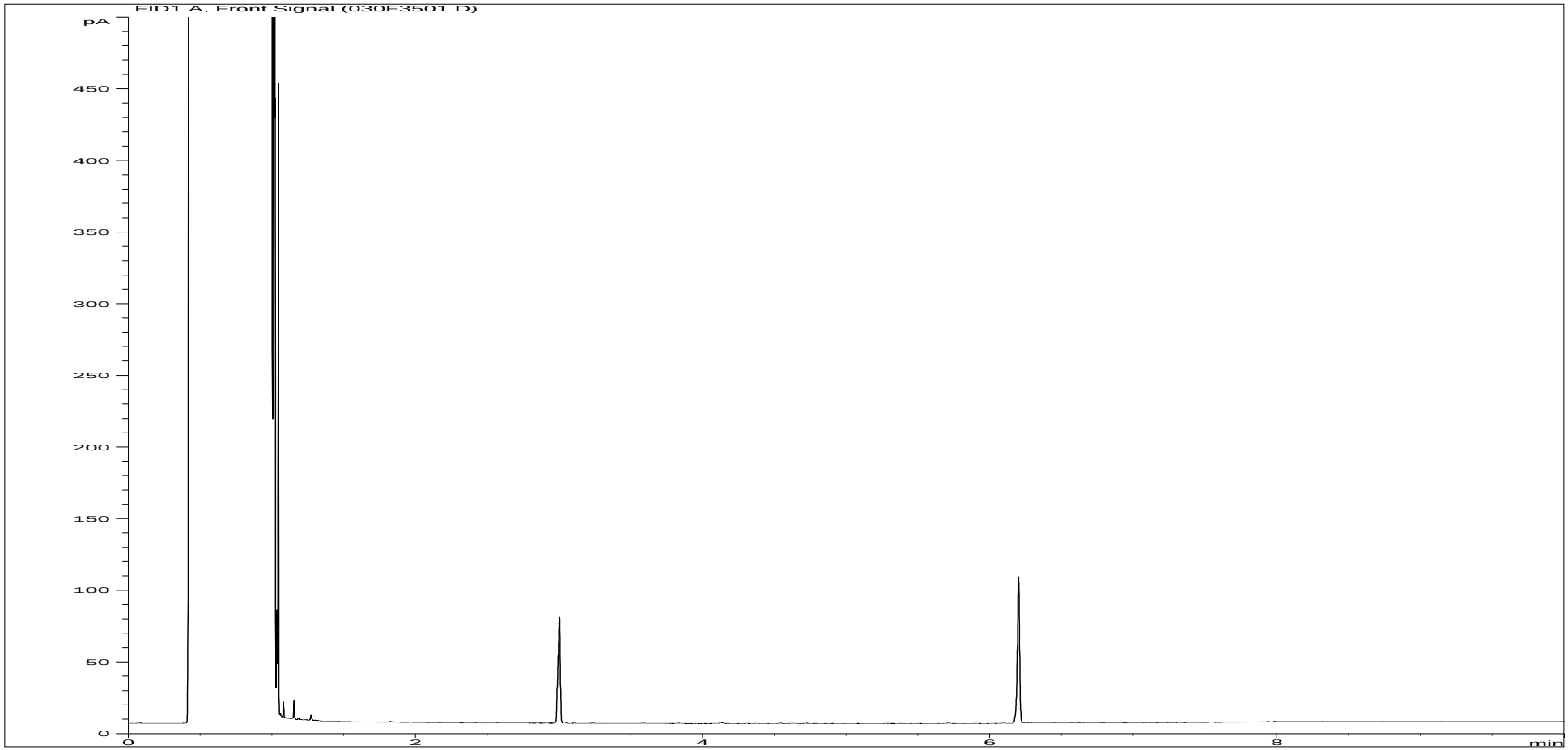
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1119156ARO	**Job Number:**	W11_9890
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306452 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 20:05:15		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\076B3301.D		

Where individual results are flagged see report notes for status.

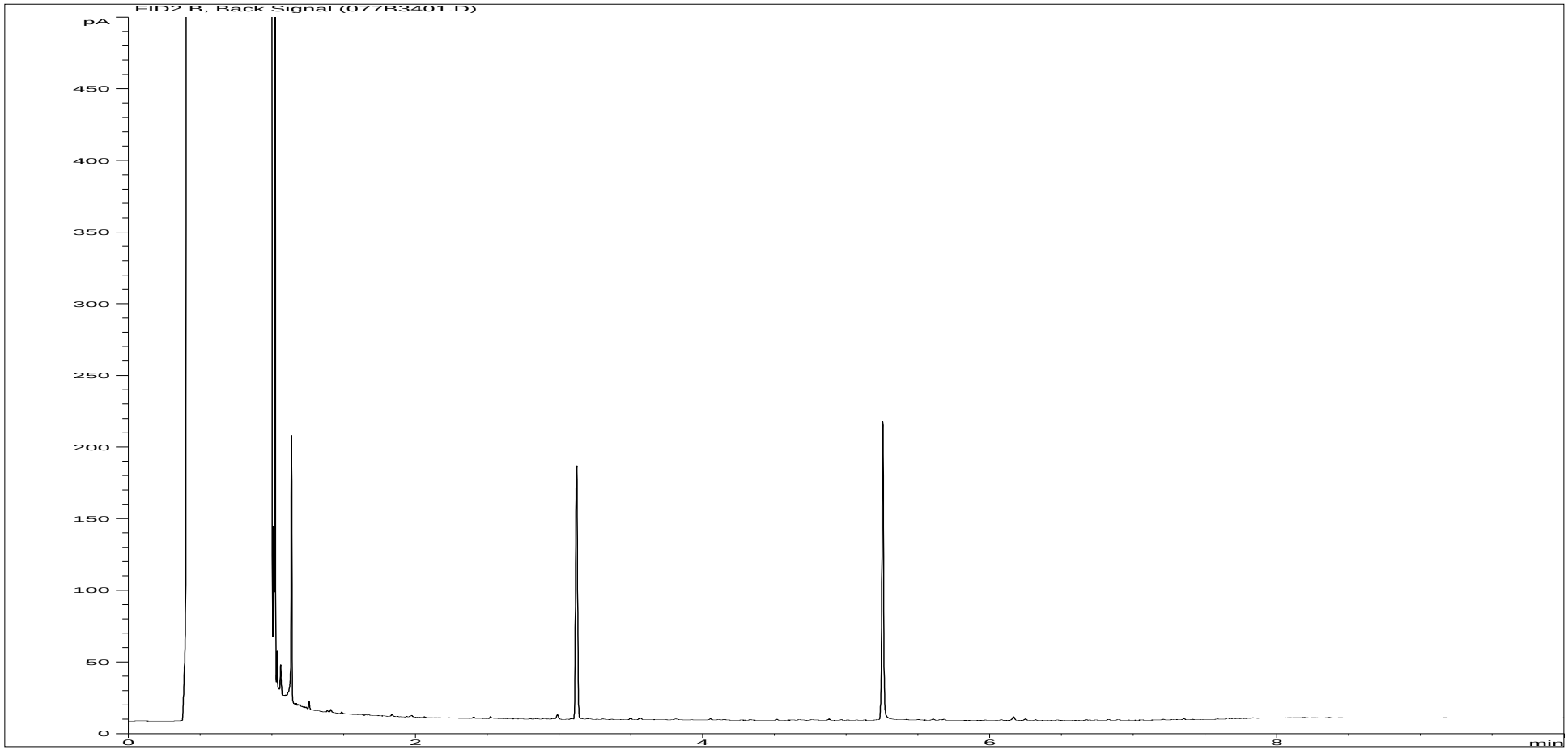
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1119157ALI	**Job Number:**	W11_9890
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306453 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 20:39:44		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\030F3501.D		

Where individual results are flagged see report notes for status.

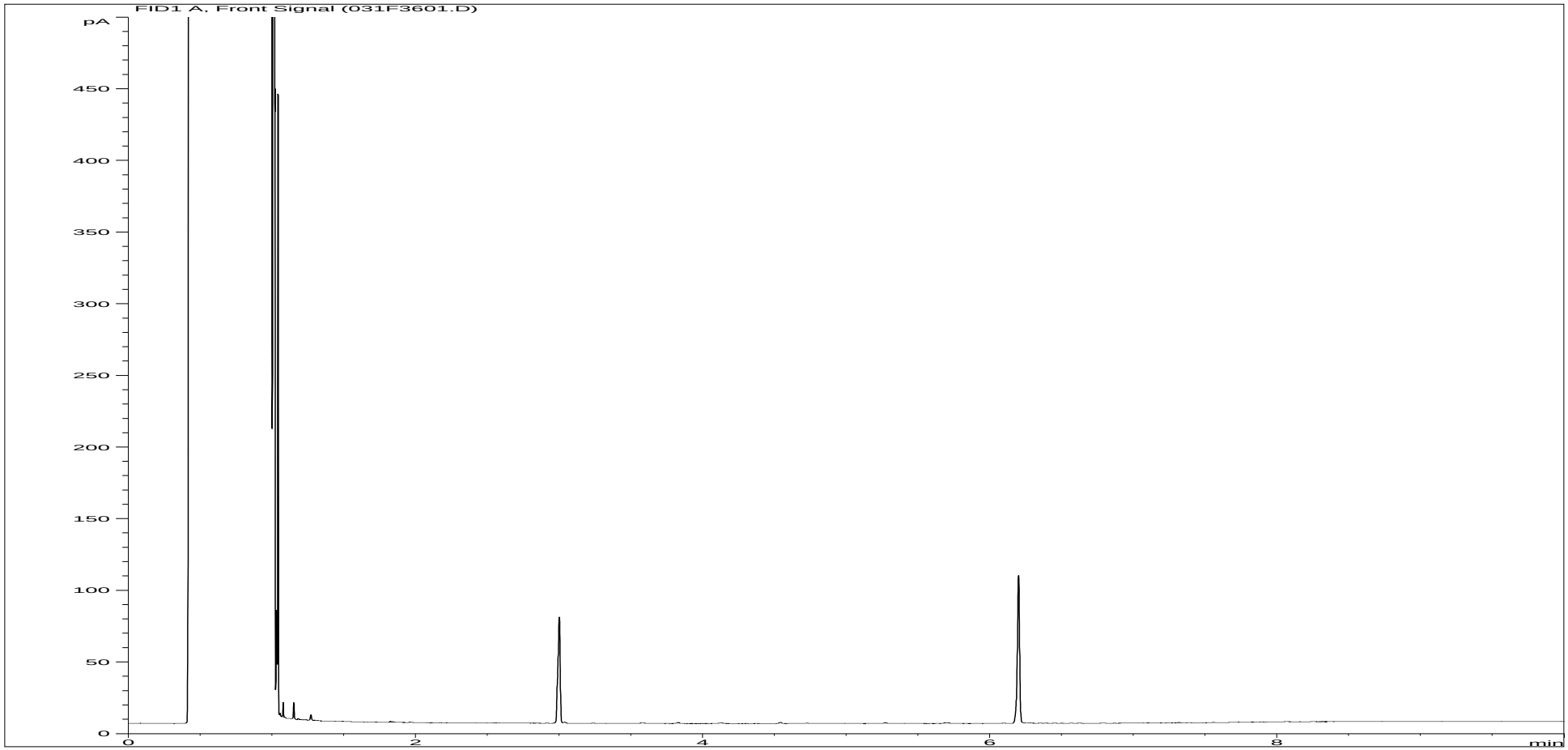
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1119157ARO	**Job Number:**	W11_9890
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306453 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 20:22:26		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\077B3401.D		

Where individual results are flagged see report notes for status.

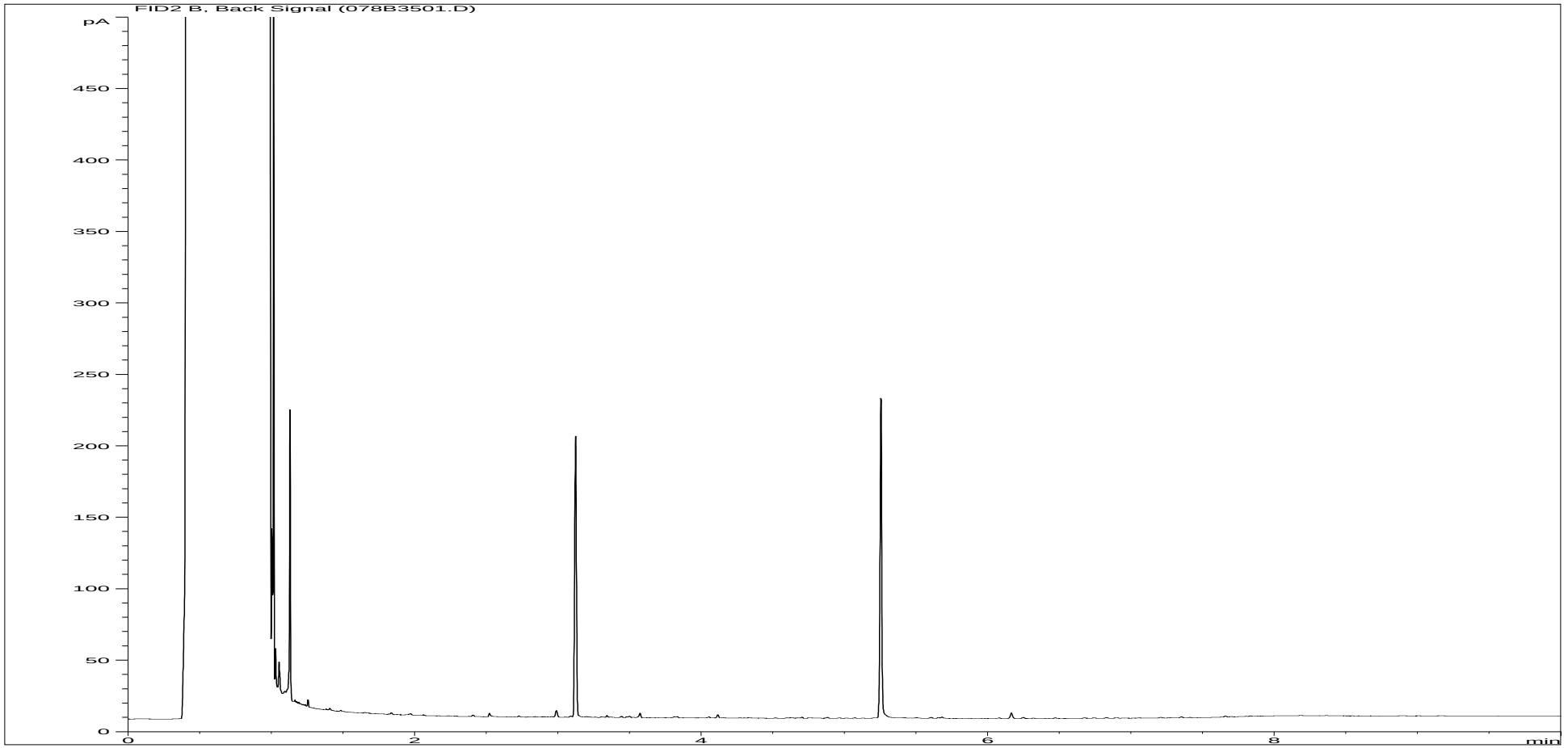
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1119158ALI	**Job Number:**	W11_9890
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306454 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 20:56:58		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\031F3601.D		

Where individual results are flagged see report notes for status.

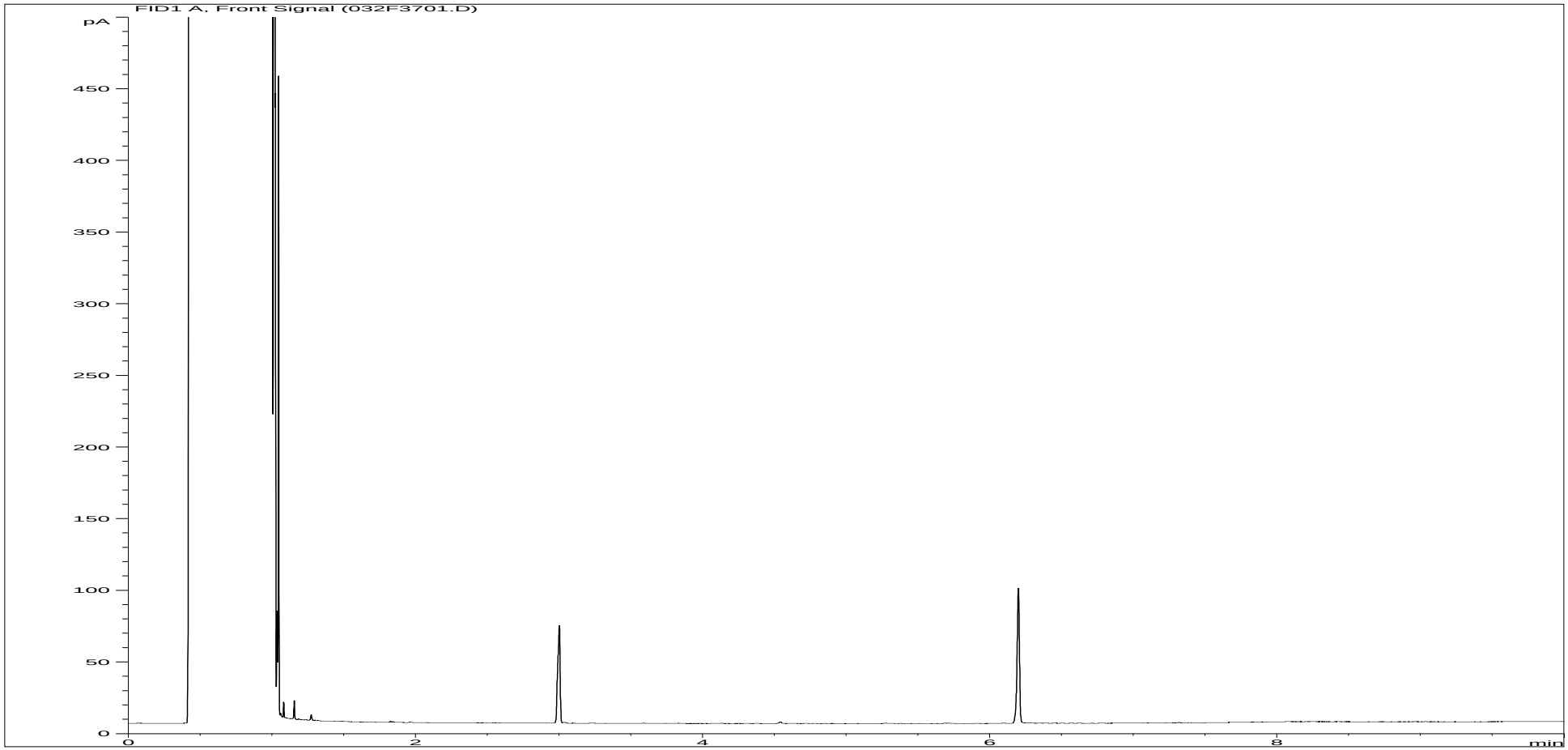
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1119158ARO	**Job Number:**	W11_9890
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306454 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 20:39:44		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\078B3501.D		

Where individual results are flagged see report notes for status.

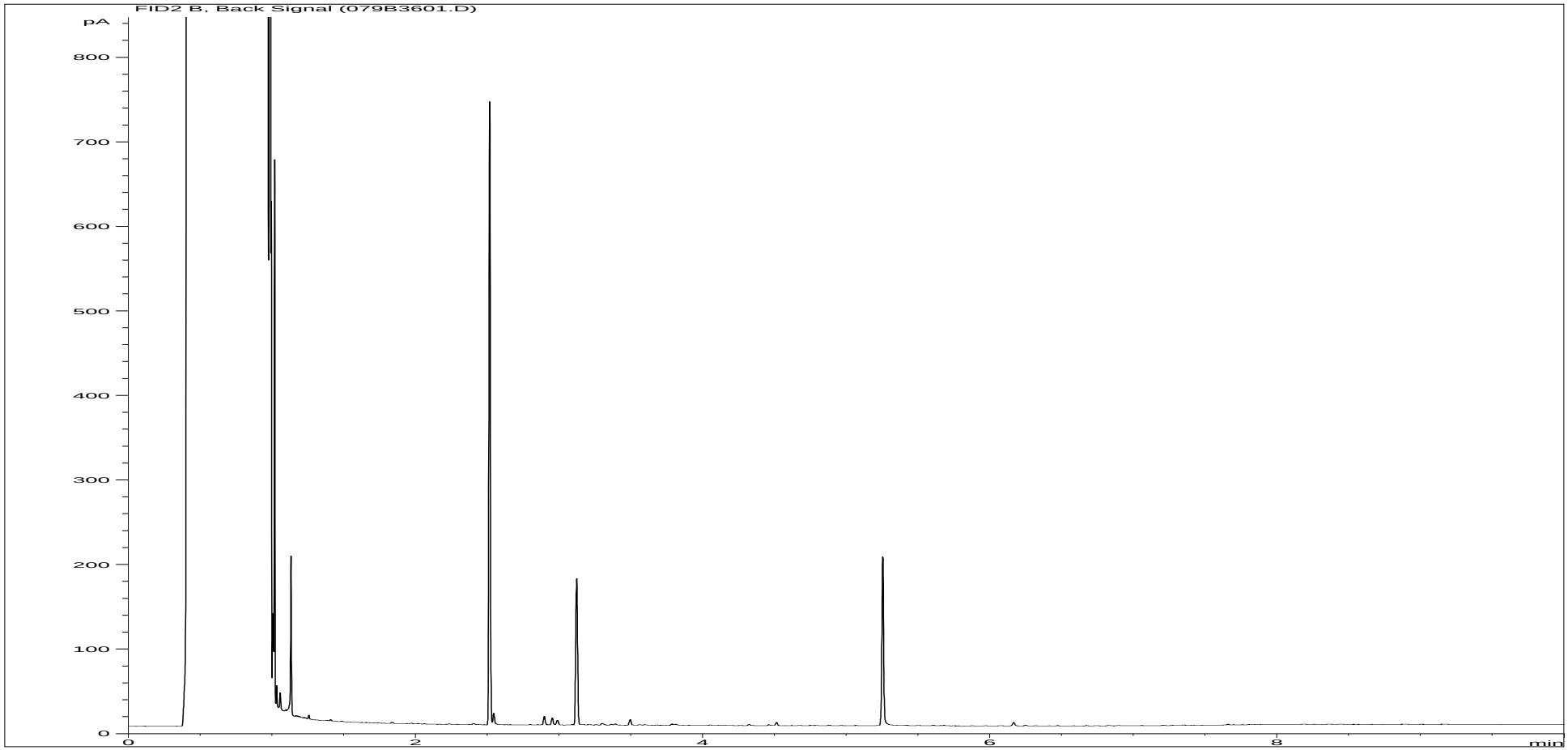
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1119159ALI	**Job Number:**	W11_9890
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306455 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 21:14:17		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\032F3701.D		

Where individual results are flagged see report notes for status.

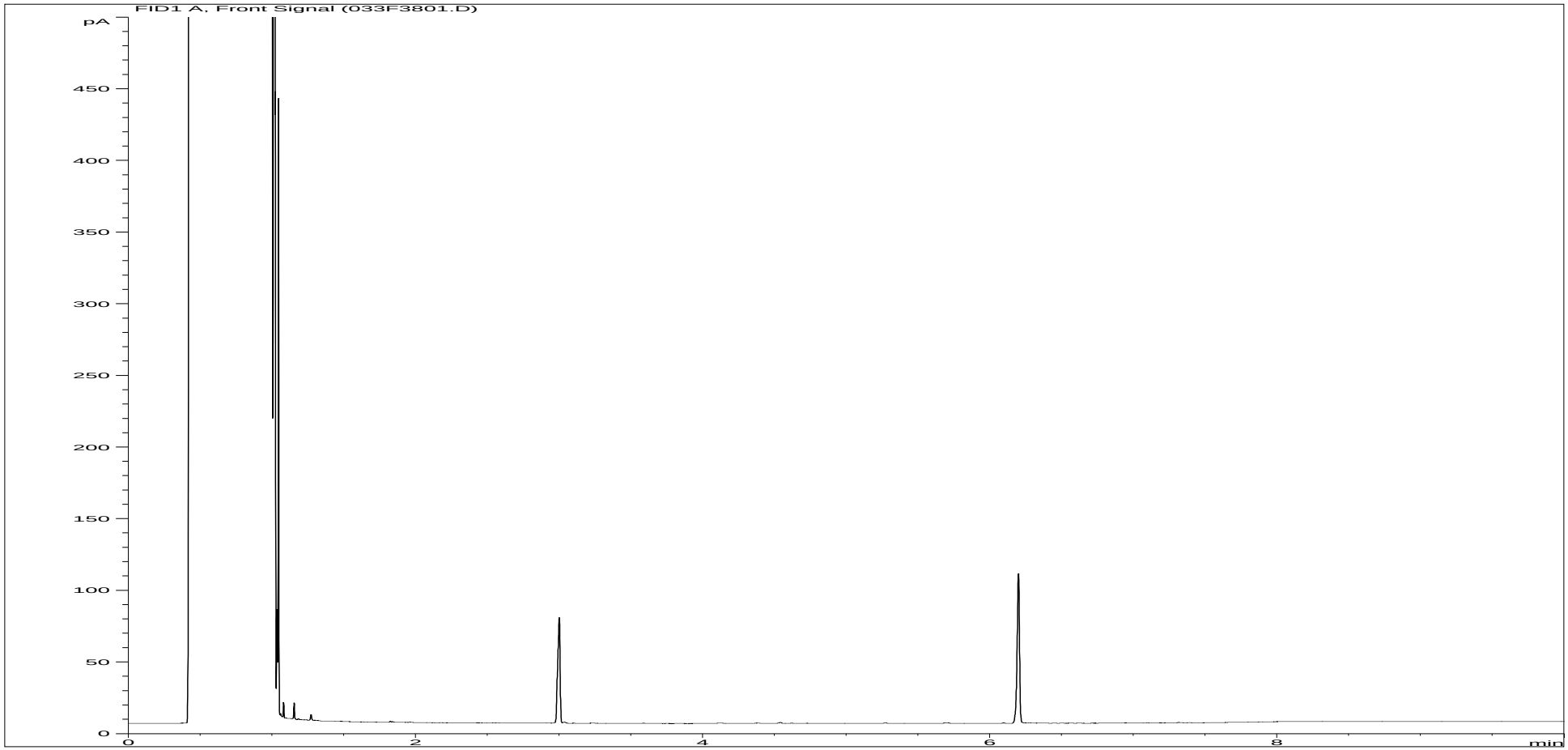
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1119159ARO	**Job Number:**	W11_9890
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306455 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 20:56:58		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\079B3601.D		

Where individual results are flagged see report notes for status.

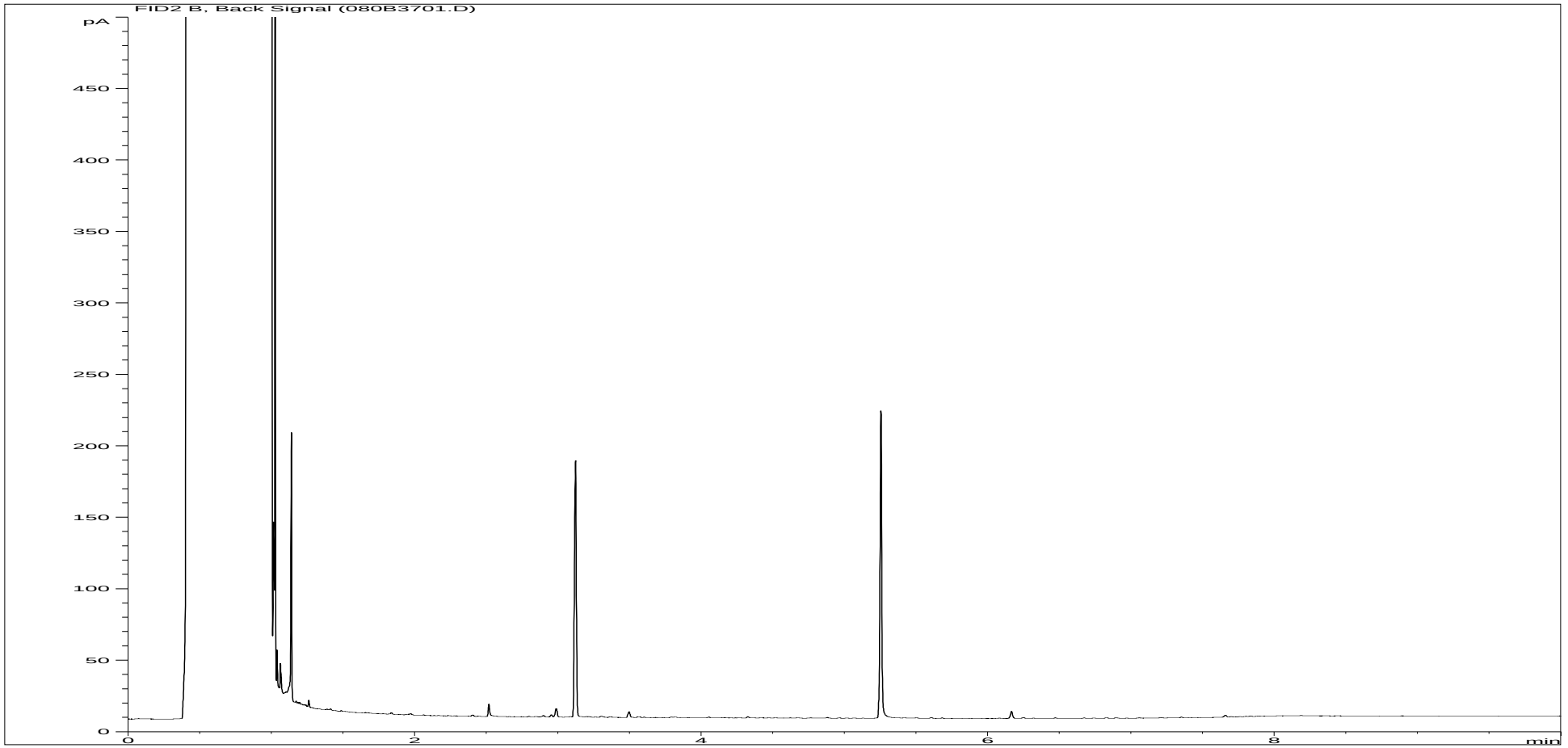
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1119160ALI	**Job Number:**	W11_9890
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306456 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 21:31:26		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\033F3801.D		

Where individual results are flagged see report notes for status.

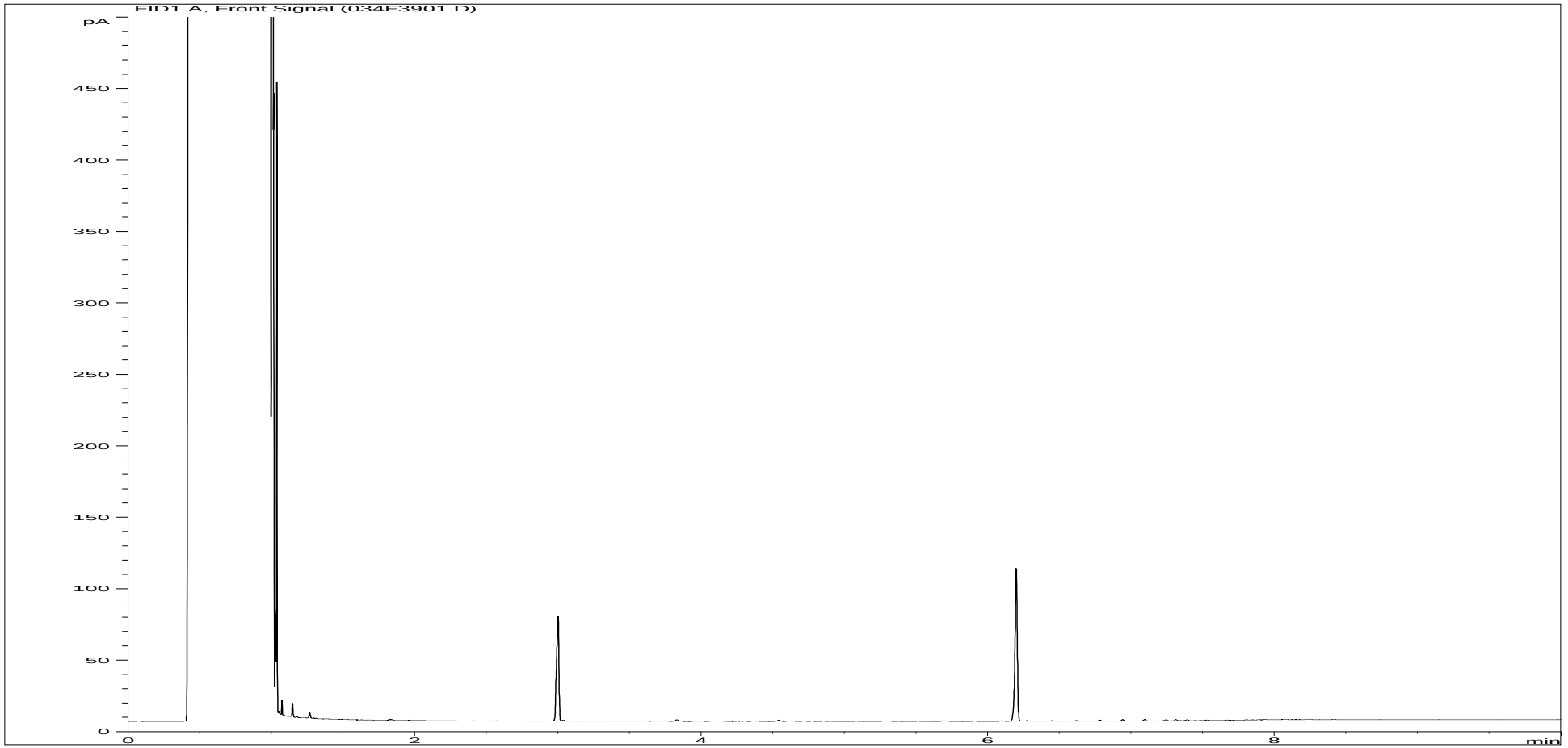
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1119160ARO	**Job Number:**	W11_9890
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306456 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 21:14:17		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\080B3701.D		

Where individual results are flagged see report notes for status.

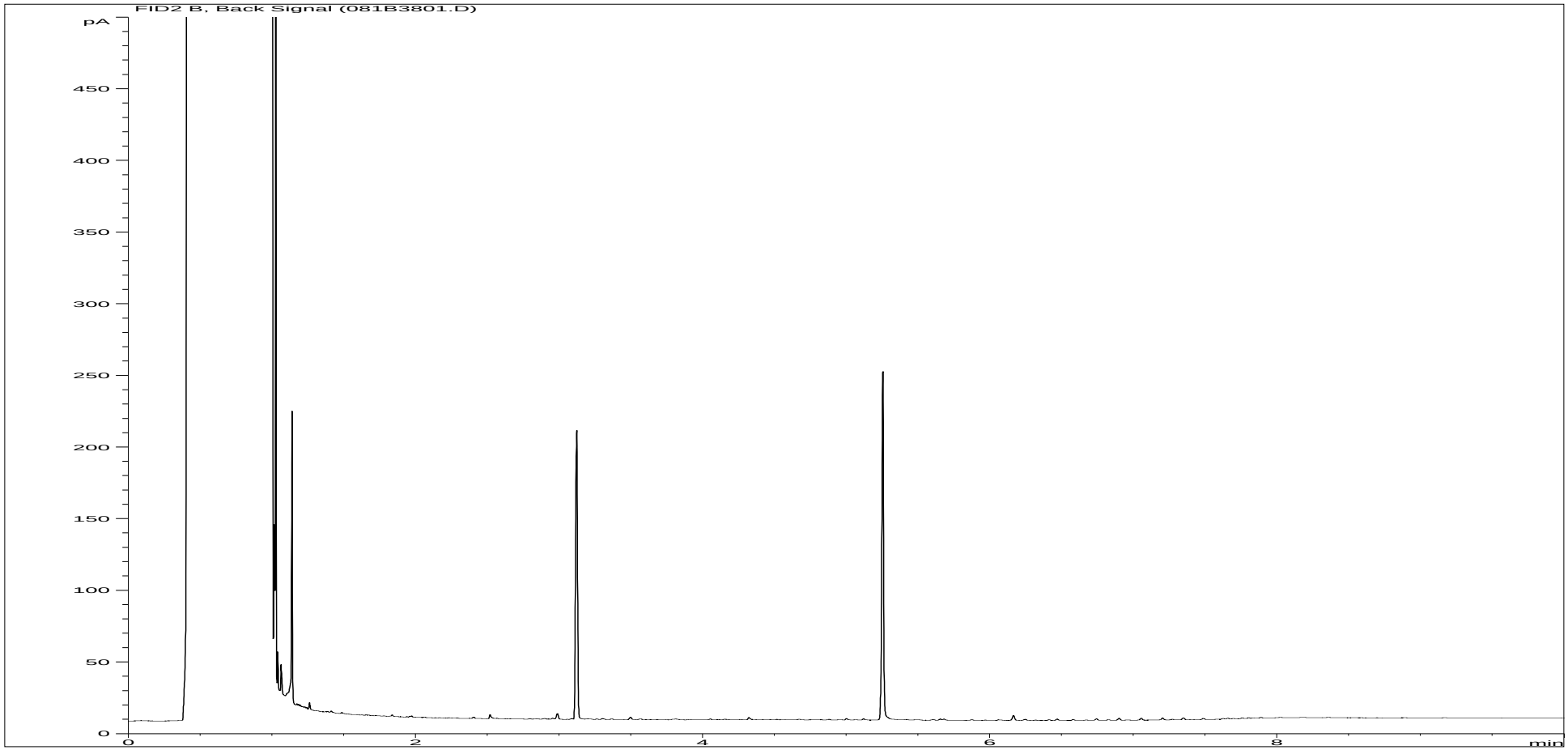
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1119161ALI	**Job Number:**	W11_9890
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306457 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 21:48:44		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\034F3901.D		

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1119161ARO	**Job Number:**	W11_9890
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV306457 ESC 1 0.20
Acquisition Date/Time:	13-May-11, 21:31:26		
Datafile:	D:\TES\DATA\Y2011\051311TPH_GC15\051311A 2011-05-13 10-50-50\081B3801.D		

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	0512VOC.MS8\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV306448 ESC 1 0.20	**Date Booked in:**	10-May-11	**Method:**	Headspace
LIMS ID Number:	EX1119152	**Date Analysed:**	12-May-11	**Multiplier:**	1
Job Number:	W11_9890	**Operator:**	PR	**Position:**	12

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.42	79	Dibromofluoromethane	55
1,4-Difluorobenzene	3.78	81	Toluene-d8	100
Chlorobenzene-d5	4.92	78	Bromofluorobenzene	97
1,4-Dichlorobenzene-d4	5.72	75		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	0512VOC.MS8\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV306449 ESC 1 0.20	**Date Booked in:**	10-May-11	**Method:**	Headspace
LIMS ID Number:	EX1119153	**Date Analysed:**	12-May-11	**Multiplier:**	1
Job Number:	W11_9890	**Operator:**	PR	**Position:**	13

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.42	98	Dibromofluoromethane	62
1,4-Difluorobenzene	3.78	98	Toluene-d8	100
Chlorobenzene-d5	4.92	93	Bromofluorobenzene	96
1,4-Dichlorobenzene-d4	5.72	90		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	0512VOC.MS8\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV306450 ESC 1 0.20	**Date Booked in:**	10-May-11	**Method:**	Headspace
LIMS ID Number:	EX1119154	**Date Analysed:**	12-May-11	**Multiplier:**	1
Job Number:	W11_9890	**Operator:**	PR	**Position:**	14

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.42	98	Dibromofluoromethane	68
1,4-Difluorobenzene	3.78	100	Toluene-d8	99
Chlorobenzene-d5	4.92	95	Bromofluorobenzene	97
1,4-Dichlorobenzene-d4	5.72	93		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	0512VOC.MS8\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV306451 ESC 1 0.20	**Date Booked in:**	10-May-11	**Method:**	Headspace
LIMS ID Number:	EX1119155	**Date Analysed:**	12-May-11	**Multiplier:**	1
Job Number:	W11_9890	**Operator:**	PR	**Position:**	15

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.42	100	Dibromofluoromethane	74
1,4-Difluorobenzene	3.78	100	Toluene-d8	101
Chlorobenzene-d5	4.92	94	Bromofluorobenzene	97
1,4-Dichlorobenzene-d4	5.72	90		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	0512VOC.MS8\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV306452 ESC 1 0.20	**Date Booked in:**	10-May-11	**Method:**	Headspace
LIMS ID Number:	EX1119156	**Date Analysed:**	12-May-11	**Multiplier:**	1
Job Number:	W11_9890	**Operator:**	PR	**Position:**	16

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.42	95	Dibromofluoromethane	39
1,4-Difluorobenzene	3.78	98	Toluene-d8	98
Chlorobenzene-d5	4.92	90	Bromofluorobenzene	98
1,4-Dichlorobenzene-d4	5.72	90		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	0512VOC.MS8\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV306453 ESC 1 0.20	**Date Booked in:**	10-May-11	**Method:**	Headspace
LIMS ID Number:	EX1119157	**Date Analysed:**	12-May-11	**Multiplier:**	1
Job Number:	W11_9890	**Operator:**	PR	**Position:**	17

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.42	84	Dibromofluoromethane	84
1,4-Difluorobenzene	3.78	85	Toluene-d8	99
Chlorobenzene-d5	4.92	83	Bromofluorobenzene	96
1,4-Dichlorobenzene-d4	5.72	78		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	0512VOC.MS8\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV306454 ESC 1 0.20	**Date Booked in:**	10-May-11	**Method:**	Headspace
LIMS ID Number:	EX1119158	**Date Analysed:**	12-May-11	**Multiplier:**	1
Job Number:	W11_9890	**Operator:**	PR	**Position:**	18

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.42	89	Dibromofluoromethane	92
1,4-Difluorobenzene	3.78	90	Toluene-d8	99
Chlorobenzene-d5	4.92	85	Bromofluorobenzene	97
1,4-Dichlorobenzene-d4	5.72	81		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	0512VOC.MS8\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV306455 ESC 1 0.20	**Date Booked in:**	10-May-11	**Method:**	Headspace
LIMS ID Number:	EX1119159	**Date Analysed:**	12-May-11	**Multiplier:**	1
Job Number:	W11_9890	**Operator:**	PR	**Position:**	19

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.42	89	Dibromofluoromethane	40
1,4-Difluorobenzene	3.78	90	Toluene-d8	99
Chlorobenzene-d5	4.92	85	Bromofluorobenzene	99
1,4-Dichlorobenzene-d4	5.72	81		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	0512VOC.MS8\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV306456 ESC 1 0.20	**Date Booked in:**	10-May-11	**Method:**	Headspace
LIMS ID Number:	EX1119160	**Date Analysed:**	12-May-11	**Multiplier:**	1
Job Number:	W11_9890	**Operator:**	PR	**Position:**	20

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.42	85	Dibromofluoromethane	38
1,4-Difluorobenzene	3.78	87	Toluene-d8	98
Chlorobenzene-d5	4.92	85	Bromofluorobenzene	95
1,4-Dichlorobenzene-d4	5.72	80		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	0512VOC.MS8\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV306457 ESC 1 0.20	**Date Booked in:**	10-May-11	**Method:**	Headspace
LIMS ID Number:	EX1119161	**Date Analysed:**	12-May-11	**Multiplier:**	1
Job Number:	W11_9890	**Operator:**	PR	**Position:**	21

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.42	91	Dibromofluoromethane	81
1,4-Difluorobenzene	3.78	93	Toluene-d8	99
Chlorobenzene-d5	4.92	90	Bromofluorobenzene	94
1,4-Dichlorobenzene-d4	5.72	85		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Analytical and Deviating Sample Overview

Customer Soil Mechanics
Site Jackson CE, Warm-Up Track, OP
Report No W119890

Consignment No 20426
Date Logged 10-May-2011
Chain of Custody R108011
Report Due 12-May-2011

ID Number	Description	MethodID	CUSTSERV	GROHSA	ICPMSW									ICPWATVAR		KONENS	LeachPrep	PAHMSW	PHEHPLC	TPHFID Si	VOCHSAW
		Sampled	Report A (CEN)C	GRO-HSA (AA-2012)	Nickel as Ni MS (Dissolved)	Chromium as Cr MS (Dissolved)	Cadmium as Cd MS (Dissolved)	Copper as Cu MS (Dissolved)	Lead as Pb MS (Dissolved)	Zinc as Zn MS (Dissolved)	Arsenic as As MS (Dissolved)	Mercury as Hg MS (Dissolved)	Selenium as Se MS (Dissolved)	Total Sulphur as SO4 (Diss) VAR	Boron as B (Dissolved) VAR	Ammoniacal Nitrogen (Kone)	Leachate Prep	PAH MS (16)	Phenol HPLC (Low)	TPH GC (SI) (0.01)	VOC HSA-MS
Accredited to ISO17025					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
EX/1119152	JC03b-FVPSamp-1-306448 0.2	20/04/11																			
EX/1119153	JC03b-FVPSamp-2-306449 0.2	20/04/11																			
EX/1119154	JC03b-FVPSamp-3-306450 0.2	20/04/11																			
EX/1119155	JC03b-FVPSamp-4-306451 0.2	20/04/11																			
EX/1119156	JC03b-FVPSamp-5-306452 0.2	20/04/11																			
EX/1119157	JC03b-FVPSamp-6-306453 0.2	20/04/11																			
EX/1119158	JC03b-FVPSamp-7-306454 0.2	20/04/11																			
EX/1119159	JC03b-FVPSamp-8-306455 0.2	20/04/11																			
EX/1119160	JC03b-FVPSamp-9-306456 0.2	20/04/11																			
EX/1119161	JC03b-FVPSamp-10-306457 0.	20/04/11																			

Note: For analysis where the Report Due date is greater than 7 days (Volatiles, PAH, Pesticides, PCB, Phenols, Herbicides) or 2 days (BOD) after the sampling date, although we will do our utmost to prioritise your samples, they may become deviant whilst being processed in the Laboratory.

In this instance, please contact the Laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time

Requested Analysis Key

	Analysis Required
	Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
	No analysis scheduled
^	Analysis Subcontracted

Where individual results are flagged see report notes for status

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Water	GROHSA	As Received	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace FID
Water	ICPMSW	As Received	Direct quantitative determination of Metals in water samples using ICPMS
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	PAHMSW	As Received	Determination of PolyAromatic Hydrocarbons in water by pentane extraction GCMS quantitation
Water	PHEHPLC	As Received	Determination of Total Phenol by HPLC
Water	TPHFID-Si	As Received	Determination of speciated pentane extractable hydrocarbons in water by GCFID
Water	VOCHSAW	As Received	Determination of Volatile Organics Compounds or Gasoline Range Hydrocarbons (GRO) by Headspace GCMS

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,
- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Oil analysis specific

Unless stated otherwise,
- Results are expressed as mg/kg
- SG is expressed as g/cm^3@ 15^{o}C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile
CR Denotes Crocidolite
AM Denotes Amosite
NAIIS No Asbestos Identified in Sample

Symbol Reference

^ Sub-contracted analysis. Note: The accreditation status is that assigned by the subcontract laboratory.
$$ Unable to analyse due to the nature of the sample
¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
¥ Results for guidance only due to possible interference
& Blank corrected result
I.S Insufficient sample to complete requested analysis
I.S(g) Insufficient sample to re-analyse, results for guidance only
Intf Unable to analyse due to interferences
N.D Not determined
N.Det Not detected
Req Analysis requested, see attached sheets for results
Þ Raised detection limit due to nature of the sample
***** All accreditation has been removed by the laboratory for this result
‡ MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

END OF REPORT

Where individual results are flagged see report notes for status.

Our Ref: EXR/120208 (Ver. 1)
Your Ref: R1080-11

May 24, 2011

Scientifics
Bretby Business Park
Ashby Road
Burton-on-Trent
Staffordshire
DE15 0YZ

Telephone: 01283 554400
Facsimile: 01283 554422

[redacted]
Soil Mechanics
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

For the attention of [redacted]

Dear [redacted]

LEACHATE SAMPLE ANALYSIS - Jackson CE, Warm-Up Track, OP

Samples from the above site have been analysed in accordance with the schedule supplied.
The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Please be aware that from 1 January 2003 our policy for the retention of paper based laboratory records and analysis reports will be 6 years.

The work was carried out in accordance with Environmental Scientifics Group Ltd (Scientifics) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for Scientifics

[redacted]

TEST REPORT
LEACHATE SAMPLE ANALYSIS

UKAS TESTING
1252

Report No. EXR/120208 (Ver. 1)

Soil Mechanics
Unit 23b
Marshgate Lane Business Centre
Marshgate Lane
Stratford
London
E15 2NH

Site: Jackson CE, Warm-Up Track, OP

The 10 samples described in this report were logged for analysis by Scientifics on 18-May-2011. This report supersedes any versions previously issued by the laboratory.
The analysis was completed by: 24-May-2011

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited
Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics.

The following tables are contained in this report:

On behalf of
Scientifics : [redacted]

Date of Issue: 24-May-2011

Tests marked '^' have been subcontracted to another laboratory.

Scientifics accepts no responsibility for any sampling not carried out by our personnel.

Units :			ug/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Method Codes :			VOCHSAW	ICPWATVAR	ICPMSW	ICPMSW	ICPMSW	PAHMSW	ICPMSW	ICPMSW	ICPMSW	ICPMSW	ICPWATVAR	ICPMSW	ICPMSW	KONENS	TPHFID-Si	GROHSA
Method Reporting Limits :			1	3.0	0.001	0.001	0.0001	0 01	0.001	0.001	0.002	0.001	0.01	0.0001	0.001	0.01	0.01	0.1
UKAS Accredited :			yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no
Laboratory ID Number EX/	**Client Sample Description**	**Sample Date**	**Volatile Organic Compounds**	**Total Sulphur as SO4 (Dissolved) a**	**Nickel as Ni (Dissolved)**	**Chromium as Cr (Dissolved)**	**Cadmium as Cd (Dissolved)**	**PAH MS-SIM (16)**	**Copper as Cu (Dissolved)**	**Lead as Pb (Dissolved)**	**Zinc as Zn (Dissolved)**	**Arsenic as As (Dissolved)**	**Boron as B (Dissolved) a**	**Mercury as Hg (Dissolved)**	**Selenium as Se (Dissolved)**	**Ammoniacal Nitrogen as N**	**TPH GC (AA)**	**GRO-HSA (AA-OL)**
1120205	FV423365 ES 1 0 20	09-May-11	Req	92	0.003	0.093	<0.0001	Req	0.016	<0.001	0.018	0.003	0.14	0.0002	0.007	0.3	Req	Req
1120206	FV423366 ES 1 0 20	09-May-11	Req	94	0.002	0.042	<0.0001	Req	0.015	<0.001	0.037	0.003	0.14	<0.0001	0.005	0.2	Req	Req
1120207	FV423367 ES 1 0 20	09-May-11	Req	128	0.003	0.05	<0.0001	Req	0.023	0.001	0.015	0.004	0.07	<0.0001	0.003	1.1	Req	Req
1120208	FV423368 ES 1 0 20	09-May-11	Req	153	0.001	0.007	<0.0001	Req	0.013	<0.001	0.009	0.007	0.16	<0.0001	0.009	0.21	Req	Req
1120209	FV423369 ES 1 0 20	09-May-11	Req	95	0.003	0.005	<0.0001	Req	0.011	<0.001	0.055	0.002	0.04	<0.0001	0.006	0.16	Req	Req
1120210	FV423370 ES 1 0 20	09-May-11	Req	155	0.002	0.005	<0.0001	Req	0.013	<0.001	0.014	0.006	0.11	<0.0001	0.007	0.23	Req	Req
1120211	FV423371 ES 1 0 20	09-May-11	Req	150	0.002	0.028	<0.0001	Req	0.014	<0.001	0.016	0.004	0.14	<0.0001	0.003	0.4	Req	Req
1120212	FV423372 ES 1 0 20	09-May-11	Req	171	0.003	0.007	<0.0001	Req	0.012	0.001	0.019	0.004	0.12	<0.0001	0.004	0.3	Req	Req
1120213	FV423373 ES 1 0 20	09-May-11	Req	204	0.002	0.006	<0.0001	Req	0.016	0.001	0.009	0.009	0.16	<0.0001	0.01	0.4	Req	Req
1120214	FV423374 ES 1 0 20	09-May-11	Req	156	0.006	0.011	<0.0001	Req	0.019	0.004	0.023	0.005	0.04	<0.0001	0.005	0.22	Req	Req

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Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Leachate Sample Analysis

Date Printed	24-May-11
Report Number	**EXR/120208**
Table Number	**1**

Where individual results are flagged see report notes for status.

		Units :	mg/l	mg/l	mg/l	mg/l												
		Method Codes :	PHEHPLC	PHEHPLC	PHEHPLC	PHEHPLC												
		Method Reporting Limits :	0.0005	0.0005	0.0005	0 0005												
		UKAS Accredited :	no	no	no	no												
Laboratory ID Number EX/	**Client Sample Description**	**Sample Date**	**Phenol**	**Cresols**	**Dimethylphenols**	**Trimethylphenols**												
1120205	FV423365 ES 1 0 20	09-May-11	<0.0005	<0.0005	<0.0005	<0 0005												
1120206	FV423366 ES 1 0 20	09-May-11	0.0010	<0.0005	<0.0005	<0 0005												
1120207	FV423367 ES 1 0 20	09-May-11	<0.0005	<0.0005	<0.0005	<0 0005												
1120208	FV423368 ES 1 0 20	09-May-11	<0.0005	<0.0005	<0.0005	<0 0005												
1120209	FV423369 ES 1 0 20	09-May-11	<0.0005	<0.0005	<0.0005	<0 0005												
1120210	FV423370 ES 1 0 20	09-May-11	<0.0005	<0.0005	<0.0005	<0 0005												
1120211	FV423371 ES 1 0 20	09-May-11	<0.0005	<0.0005	<0.0005	<0 0005												
1120212	FV423372 ES 1 0 20	09-May-11	<0.0005	<0.0005	<0.0005	<0 0005												
1120213	FV423373 ES 1 0 20	09-May-11	<0.0005	<0.0005	<0.0005	<0 0005												
1120214	FV423374 ES 1 0 20	09-May-11	<0.0005	<0.0005	<0.0005	<0 0005												

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Client Name **Soil Mechanics**

Contact [redacted]

Jackson CE, Warm-Up Track, OP

Leachate Sample Analysis

Date Printed	24-May-11
Report Number	**EXR/120208**
Table Number	**1**

Where individual results are flagged see report notes for status.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423365 ES 1 0.20	**Job Number:**	W12_0208
LIMS ID Number:	EX1120205	**Date Booked in:**	18-May-11
QC Batch Number:	110455	**Date Extracted:**	23-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	24-May-11
Directory:	0520PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.079	M
Acenaphthylene	208-96-8	-	< 0.010	-
Acenaphthene	83-32-9	4.19	0.068	M
Fluorene	86-73-7	4.56	0.011	M
Phenanthrene	85-01-8	5.35	0.041	M
Anthracene	120-12-7	5.40	0.026	M
Fluoranthene	206-44-0	6.64	0.065	M
Pyrene	129-00-0	6.91	0.045	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.425	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	98
Acenaphthene-d10	99
Phenanthrene-d10	106
Chrysene-d12	107
Perylene-d12	106

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	78
Terphenyl-d14	90

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423366 ES 1 0.20	**Job Number:**	W12_0208
LIMS ID Number:	EX1120206	**Date Booked in:**	18-May-11
QC Batch Number:	110455	**Date Extracted:**	23-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	24-May-11
Directory:	0520PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.111	M
Acenaphthylene	208-96-8	4.08	0.010	M
Acenaphthene	83-32-9	4.19	0.154	70
Fluorene	86-73-7	4.56	0.016	M
Phenanthrene	85-01-8	5.35	0.028	M
Anthracene	120-12-7	5.41	0.015	M
Fluoranthene	206-44-0	6.64	0.027	M
Pyrene	129-00-0	6.91	0.023	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.464	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	92
Acenaphthene-d10	92
Phenanthrene-d10	98
Chrysene-d12	93
Perylene-d12	90

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	77
Terphenyl-d14	86

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423367 ES 1 0.20	**Job Number:**	W12_0208
LIMS ID Number:	EX1120207	**Date Booked in:**	18-May-11
QC Batch Number:	110455	**Date Extracted:**	23-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	24-May-11
Directory:	0520PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	5.770	100
Acenaphthylene	208-96-8	4.08	0.142	100
Acenaphthene	83-32-9	4.19	4.640	93
Fluorene	86-73-7	4.56	0.461	94
Phenanthrene	85-01-8	5.35	0.347	100
Anthracene	120-12-7	5.40	0.157	100
Fluoranthene	206-44-0	6.63	0.037	M
Pyrene	129-00-0	6.91	0.023	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 11.657	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	71
Acenaphthene-d10	70
Phenanthrene-d10	74
Chrysene-d12	69
Perylene-d12	65

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	82
Terphenyl-d14	89

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423368 ES 1 0.20	**Job Number:**	W12_0208
LIMS ID Number:	EX1120208	**Date Booked in:**	18-May-11
QC Batch Number:	110455	**Date Extracted:**	23-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	24-May-11
Directory:	0520PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.0	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.090	M
Acenaphthylene	208-96-8	4.08	0.012	M
Acenaphthene	83-32-9	4.19	0.047	M
Fluorene	86-73-7	4.57	0.015	M
Phenanthrene	85-01-8	5.35	0.075	100
Anthracene	120-12-7	5.40	0.033	100
Fluoranthene	206-44-0	6.63	0.094	M
Pyrene	129-00-0	6.91	0.068	M
Benzo[a]anthracene	56-55-3	8.56	0.030	M
Chrysene	218-01-9	8.61	0.020	M
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.544	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	96
Acenaphthene-d10	95
Phenanthrene-d10	103
Chrysene-d12	103
Perylene-d12	100

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	73
Terphenyl-d14	90

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423369 ES 1 0.20	**Job Number:**	W12_0208
LIMS ID Number:	EX1120209	**Date Booked in:**	18-May-11
QC Batch Number:	110455	**Date Extracted:**	23-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	24-May-11
Directory:	0520PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.1	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.159	100
Acenaphthylene	208-96-8	-	< 0.010	-
Acenaphthene	83-32-9	4.19	0.137	M
Fluorene	86-73-7	4.56	0.016	M
Phenanthrene	85-01-8	5.35	0.021	M
Anthracene	120-12-7	5.41	0.011	M
Fluoranthene	206-44-0	-	< 0.010	-
Pyrene	129-00-0	-	< 0.010	-
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.454	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	94
Acenaphthene-d10	93
Phenanthrene-d10	98
Chrysene-d12	95
Perylene-d12	94

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	71
Terphenyl-d14	85

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423370 ES 1 0.20	**Job Number:**	W12_0208
LIMS ID Number:	EX1120210	**Date Booked in:**	18-May-11
QC Batch Number:	110455	**Date Extracted:**	23-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	24-May-11
Directory:	0520PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.1	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.015	M
Acenaphthylene	208-96-8	-	< 0.011	-
Acenaphthene	83-32-9	4.19	0.060	M
Fluorene	86-73-7	-	< 0.011	-
Phenanthrene	85-01-8	5.35	0.013	M
Anthracene	120-12-7	-	< 0.011	-
Fluoranthene	206-44-0	6.64	0.026	M
Pyrene	129-00-0	6.91	0.024	M
Benzo[a]anthracene	56-55-3	-	< 0.011	-
Chrysene	218-01-9	-	< 0.011	-
Benzo[b]fluoranthene	205-99-2	-	< 0.011	-
Benzo[k]fluoranthene	207-08-9	-	< 0.011	-
Benzo[a]pyrene	50-32-8	-	< 0.011	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.011	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.011	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.011	-
Total (USEPA16) PAHs	-	-	< 0.259	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	95
Acenaphthene-d10	94
Phenanthrene-d10	101
Chrysene-d12	100
Perylene-d12	99

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	72
Terphenyl-d14	85

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423371 ES 1 0.20	**Job Number:**	W12_0208
LIMS ID Number:	EX1120211	**Date Booked in:**	18-May-11
QC Batch Number:	110455	**Date Extracted:**	23-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	24-May-11
Directory:	0520PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.1	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.073	M
Acenaphthylene	208-96-8	-	< 0.010	-
Acenaphthene	83-32-9	4.19	0.033	M
Fluorene	86-73-7	-	< 0.010	-
Phenanthrene	85-01-8	5.35	0.011	M
Anthracene	120-12-7	-	< 0.010	-
Fluoranthene	206-44-0	6.64	0.018	M
Pyrene	129-00-0	6.91	0.014	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.259	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	97
Acenaphthene-d10	96
Phenanthrene-d10	101
Chrysene-d12	100
Perylene-d12	97

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	73
Terphenyl-d14	89

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423372 ES 1 0.20	**Job Number:**	W12_0208
LIMS ID Number:	EX1120212	**Date Booked in:**	18-May-11
QC Batch Number:	110455	**Date Extracted:**	23-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	24-May-11
Directory:	0520PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.1	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.165	100
Acenaphthylene	208-96-8	-	< 0.010	-
Acenaphthene	83-32-9	4.19	0.088	M
Fluorene	86-73-7	-	< 0.010	-
Phenanthrene	85-01-8	5.35	0.024	M
Anthracene	120-12-7	5.41	0.012	M
Fluoranthene	206-44-0	6.64	0.023	M
Pyrene	129-00-0	6.91	0.021	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.433	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	96
Acenaphthene-d10	96
Phenanthrene-d10	101
Chrysene-d12	102
Perylene-d12	100

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	80
Terphenyl-d14	90

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423373 ES 1 0.20	**Job Number:**	W12_0208
LIMS ID Number:	EX1120213	**Date Booked in:**	18-May-11
QC Batch Number:	110455	**Date Extracted:**	23-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	24-May-11
Directory:	0520PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.1	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.050	M
Acenaphthylene	208-96-8	-	< 0.010	-
Acenaphthene	83-32-9	4.19	0.068	M
Fluorene	86-73-7	4.56	0.011	M
Phenanthrene	85-01-8	5.35	0.049	M
Anthracene	120-12-7	5.35	0.062	M
Fluoranthene	206-44-0	6.64	0.055	M
Pyrene	129-00-0	6.91	0.040	M
Benzo[a]anthracene	56-55-3	-	< 0.010	-
Chrysene	218-01-9	-	< 0.010	-
Benzo[b]fluoranthene	205-99-2	-	< 0.010	-
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	-	< 0.010	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.010	-
Total (USEPA16) PAHs	-	-	< 0.425	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	84
Acenaphthene-d10	83
Phenanthrene-d10	87
Chrysene-d12	83
Perylene-d12	80

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	84
Terphenyl-d14	92

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons
GC/MS (SIM)

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP		
Sample Details:	FV423374 ES 1 0.20	**Job Number:**	W12_0208
LIMS ID Number:	EX1120214	**Date Booked in:**	18-May-11
QC Batch Number:	110455	**Date Extracted:**	23-May-11
Quantitation File:	Initial Calibration	**Date Analysed:**	24-May-11
Directory:	0520PAH.MS4\	**Matrix:**	Leachate
Dilution:	1.1	**Ext Method:**	Sep. Funnel

UKAS accredited?: Yes

Target Compounds	CAS #	R.T. (min)	Concentration ug/l	% Fit
Naphthalene	91-20-3	3.03	0.110	M
Acenaphthylene	208-96-8	-	< 0.010	-
Acenaphthene	83-32-9	4.19	0.083	M
Fluorene	86-73-7	-	< 0.010	-
Phenanthrene	85-01-8	5.35	0.031	M
Anthracene	120-12-7	5.41	0.017	M
Fluoranthene	206-44-0	6.64	0.049	M
Pyrene	129-00-0	6.91	0.040	M
Benzo[a]anthracene	56-55-3	8.56	0.026	M
Chrysene	218-01-9	8.60	0.019	M
Benzo[b]fluoranthene	205-99-2	10.10	0.021	M
Benzo[k]fluoranthene	207-08-9	-	< 0.010	-
Benzo[a]pyrene	50-32-8	10.50	0.016	M
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.010	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.010	-
Benzo[g,h,i]perylene	191-24-2	12.18	0.012	M
Total (USEPA16) PAHs	-	-	< 0.474	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	NA
Naphthalene-d8	91
Acenaphthene-d10	90
Phenanthrene-d10	96
Chrysene-d12	97
Perylene-d12	97

Surrogates	% Rec
Nitrobenzene-d5	NA
2-Fluorobiphenyl	78
Terphenyl-d14	89

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Gasoline Range Organics
(BTEX and Aromatic/Aliphatic Carbon Ranges)

Customer and Site Details: Soil Mechanics : Jackson CE, Warm-Up Track, OP
Job Number: W12_0208
Directory: D:\TES\DATA\Y2011\0520HSA_GC12\052011 2011-05-20 09-45-42\127B2701.D
Method: HEADSPACE GCFID

Matrix: LEACHATE
Date Booked in: 18-May-11
Date extracted: 20-May-11
Date Analysed: 20-May-11, 18:06:23
Units: mg/l

*** Sample data with an asterisk are not UKAS accredited.**

			Aromatics		Aliphatics		GRO	
	Sample ID	**Client ID**	**C5 - C7**	**>C7 - C8**	**C5 - C6**	**>C6 - C8**	**C8-C10**	**C5 - C10**
*	EX1120205	FV423365 ES 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1120206	FV423366 ES 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1120207	FV423367 ES 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1120208	FV423368 ES 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1120209	FV423369 ES 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1120210	FV423370 ES 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1120211	FV423371 ES 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1120212	FV423372 ES 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1120213	FV423373 ES 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1
*	EX1120214	FV423374 ES 1 0.20	<0.005	<0.005	<0.01	<0.01	<0.1	<0.1

Where individual results are flagged see report notes for status.

ALIPHATIC / AROMATIC FRACTION BY GC/FID

Customer and Site Details: Soil Mechanics : Jackson CE, Warm-Up Track, OP
Job Number: W12_0208
QC Batch Number: 110450
Directory: D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\065B1201.D
Method: Separating Funnel

Separation: Silica gel
Eluents: Hexane, DCM

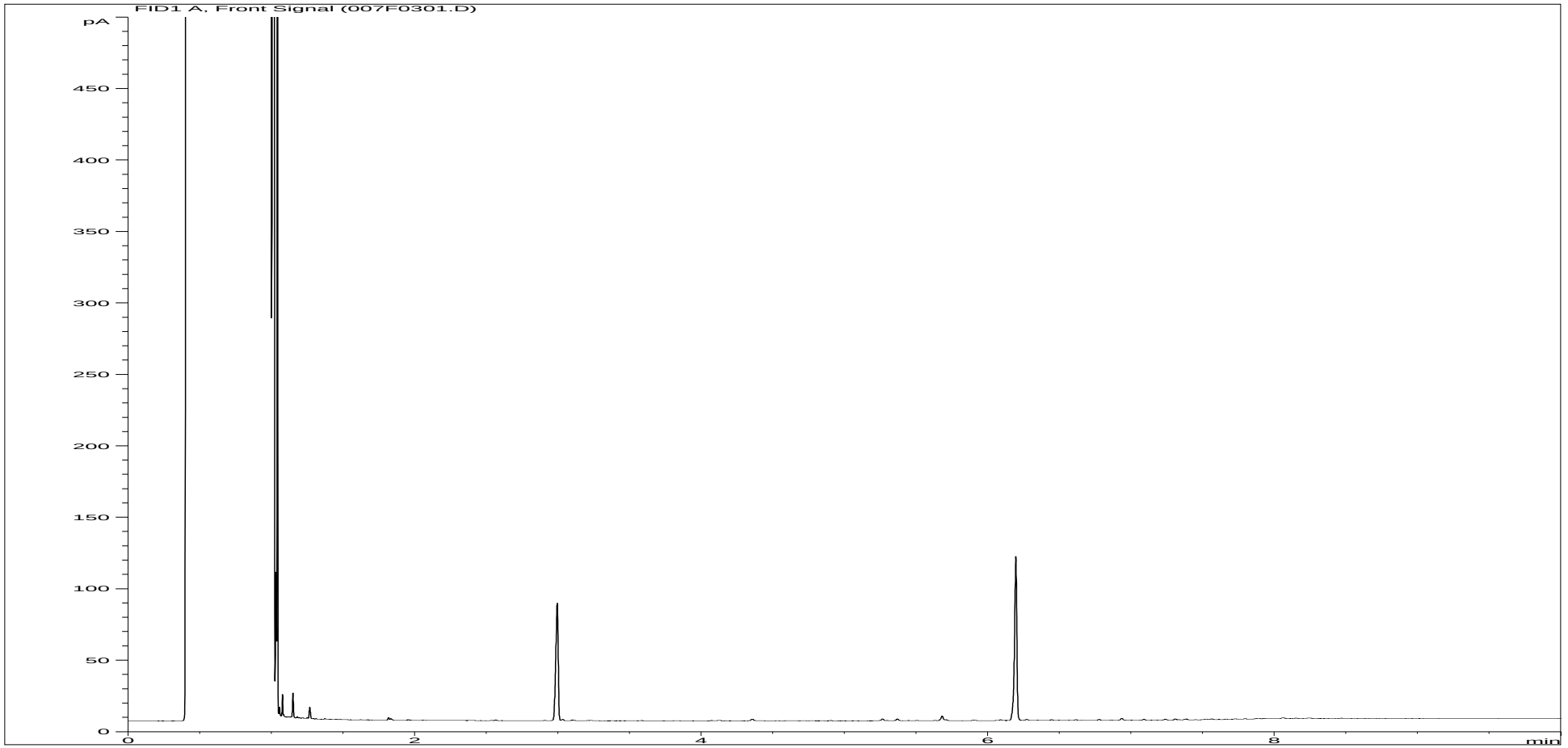
Matrix: Leachate
Date Booked in 18-May-11
Date Extracted 20-May-11
Date Analysed 23-May-11, 16:11:38

*** This sample data is not UKAS accredited.**

		Concentration, (mg/l)											
		>C8 - C10		>C10 - C12		>C12 - C16		>C16 - C21		>C21 - C35		>C8 - C40	
Sample ID	**Client ID**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**	**Aliphatics**	**Aromatics**
EX1120205	FV423365 ES 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1120206	FV423366 ES 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1120207	FV423367 ES 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.023
EX1120208	FV423368 ES 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1120209	FV423369 ES 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1120210	FV423370 ES 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1120211	FV423371 ES 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1120212	FV423372 ES 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1120213	FV423373 ES 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX1120214	FV423374 ES 1 0.20	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Where individual results are flagged see report notes for status.

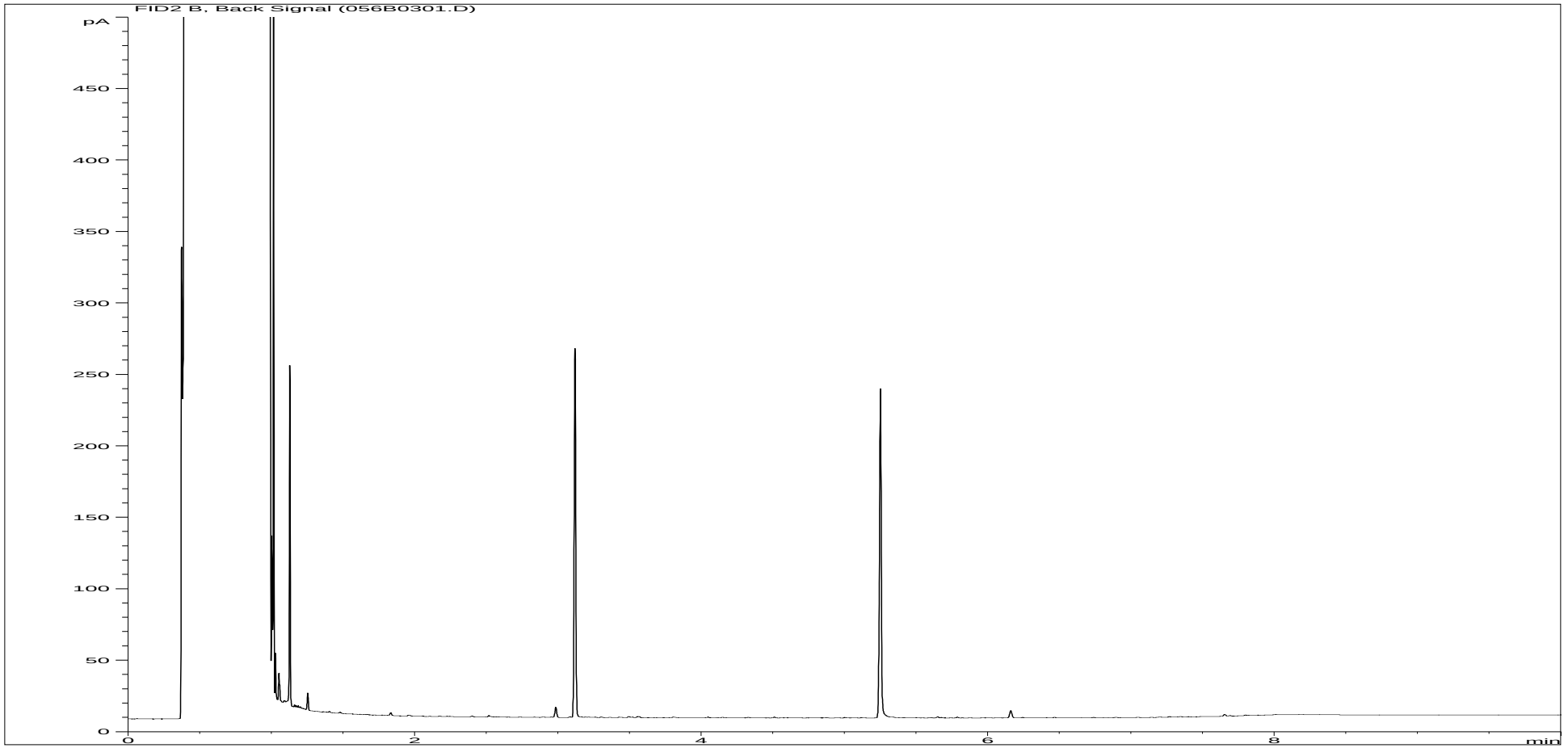
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1120205ALI	**Job Number:**	W12_0208
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423365 ES 1 0.20
Acquisition Date/Time:	23-May-11, 13:36:56		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\007F0301.D		

Where individual results are flagged see report notes for status.

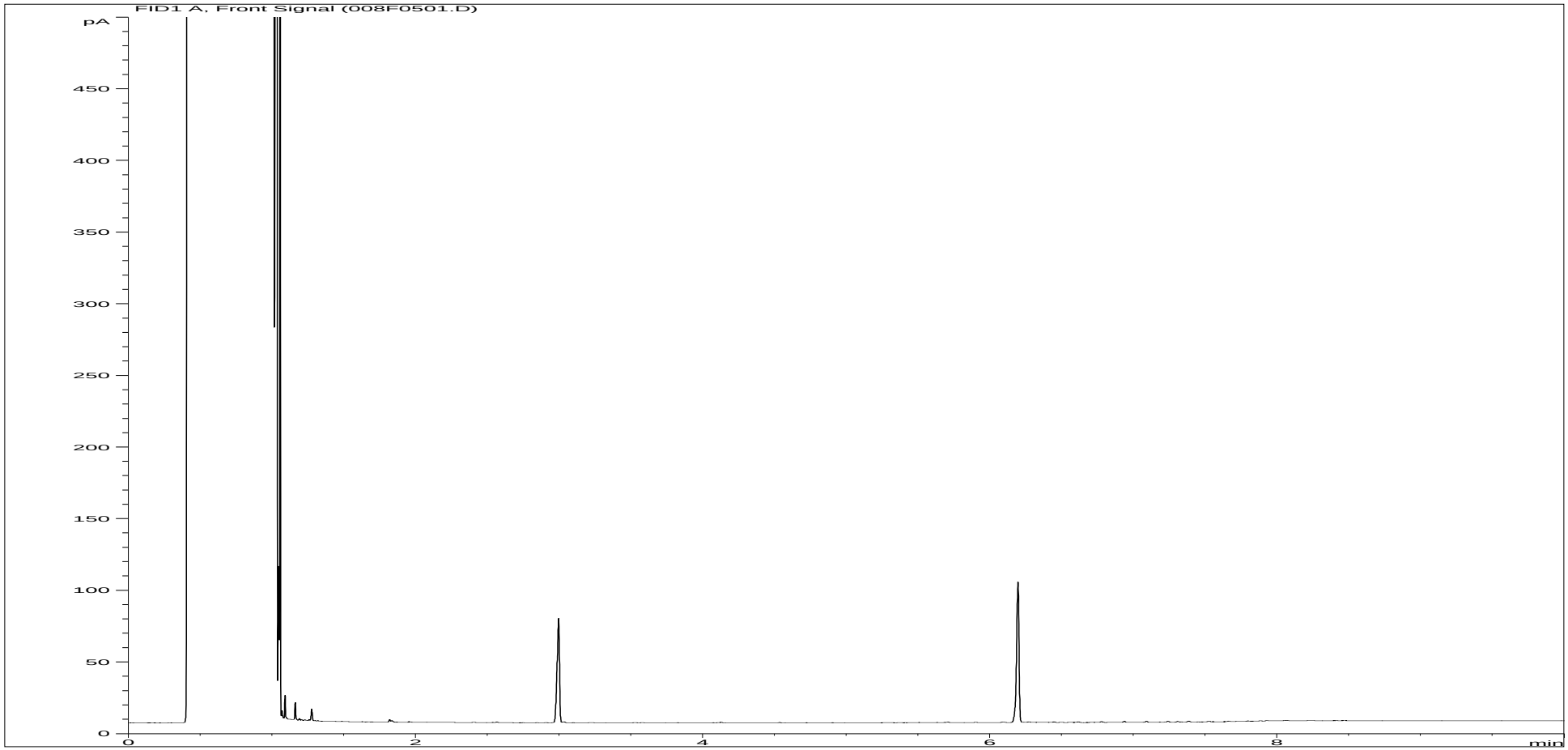
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1120205ARO	**Job Number:**	W12_0208
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423365 ES 1 0.20
Acquisition Date/Time:	23-May-11, 13:36:56		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\056B0301.D		

Where individual results are flagged see report notes for status.

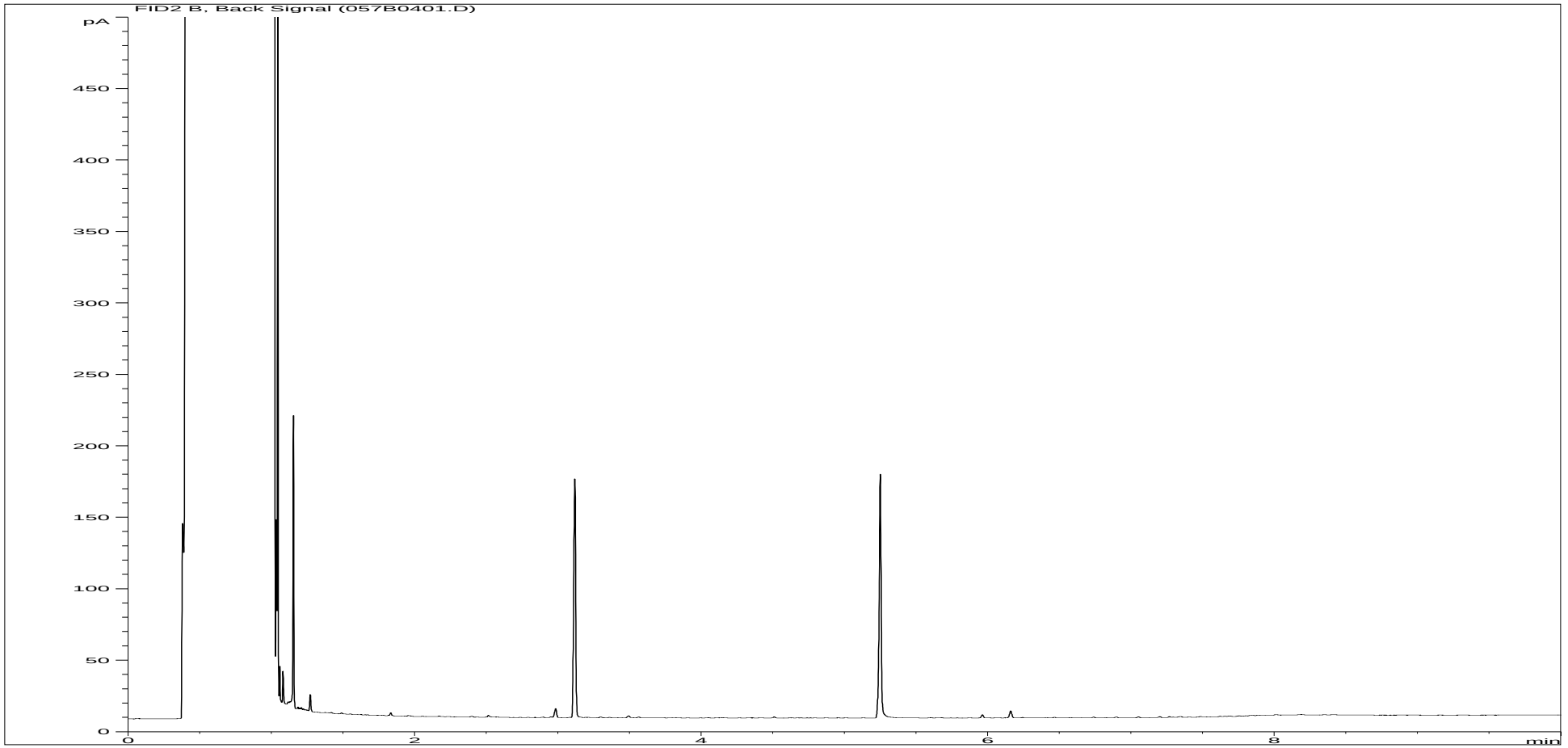
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1120206ALI	**Job Number:**	W12_0208
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423366 ES 1 0.20
Acquisition Date/Time:	23-May-11, 14:11:27		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\008F0501.D		

Where individual results are flagged see report notes for status.

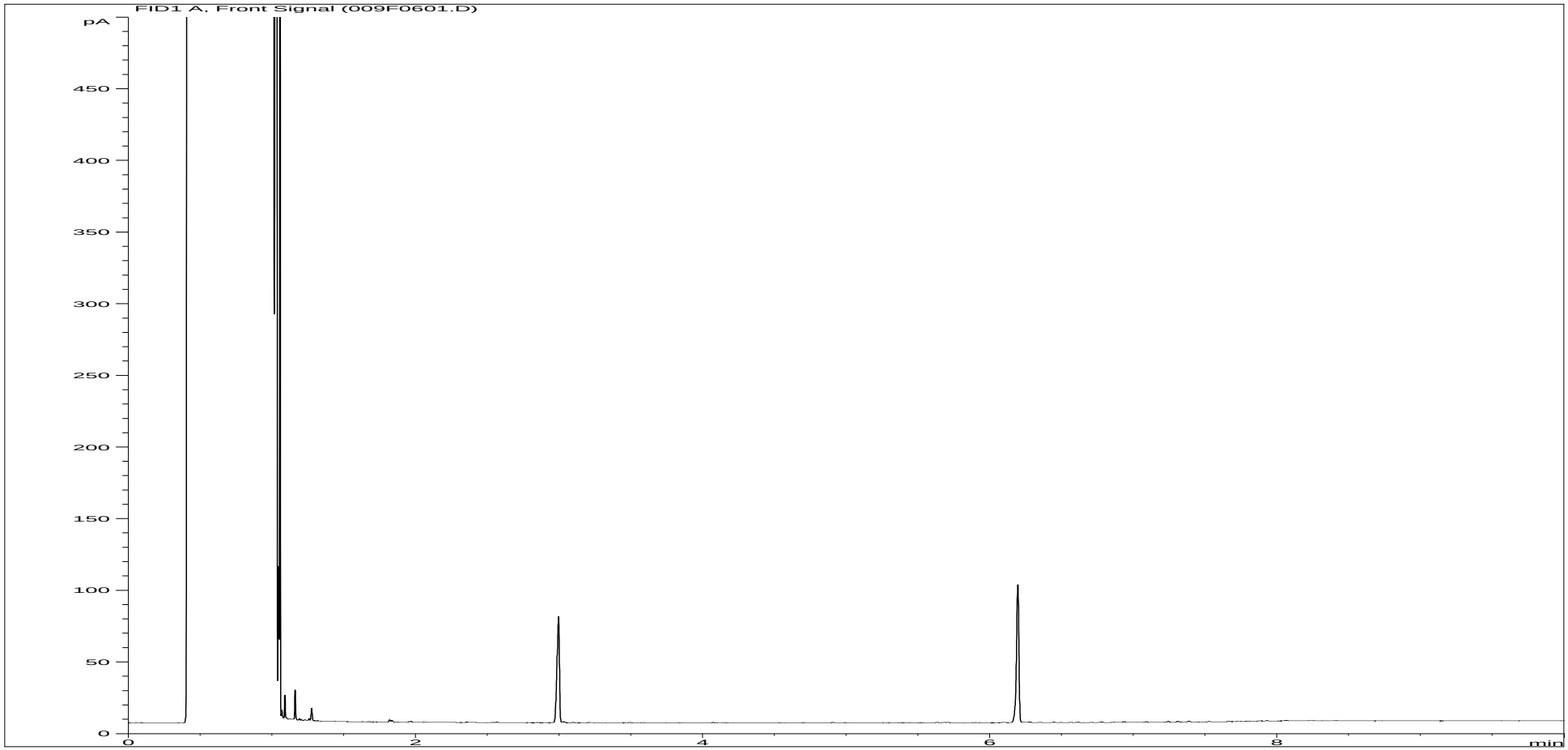
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1120206ARO	**Job Number:**	W12_0208
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423366 ES 1 0.20
Acquisition Date/Time:	23-May-11, 13:54:05		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\057B0401.D		

Where individual results are flagged see report notes for status.

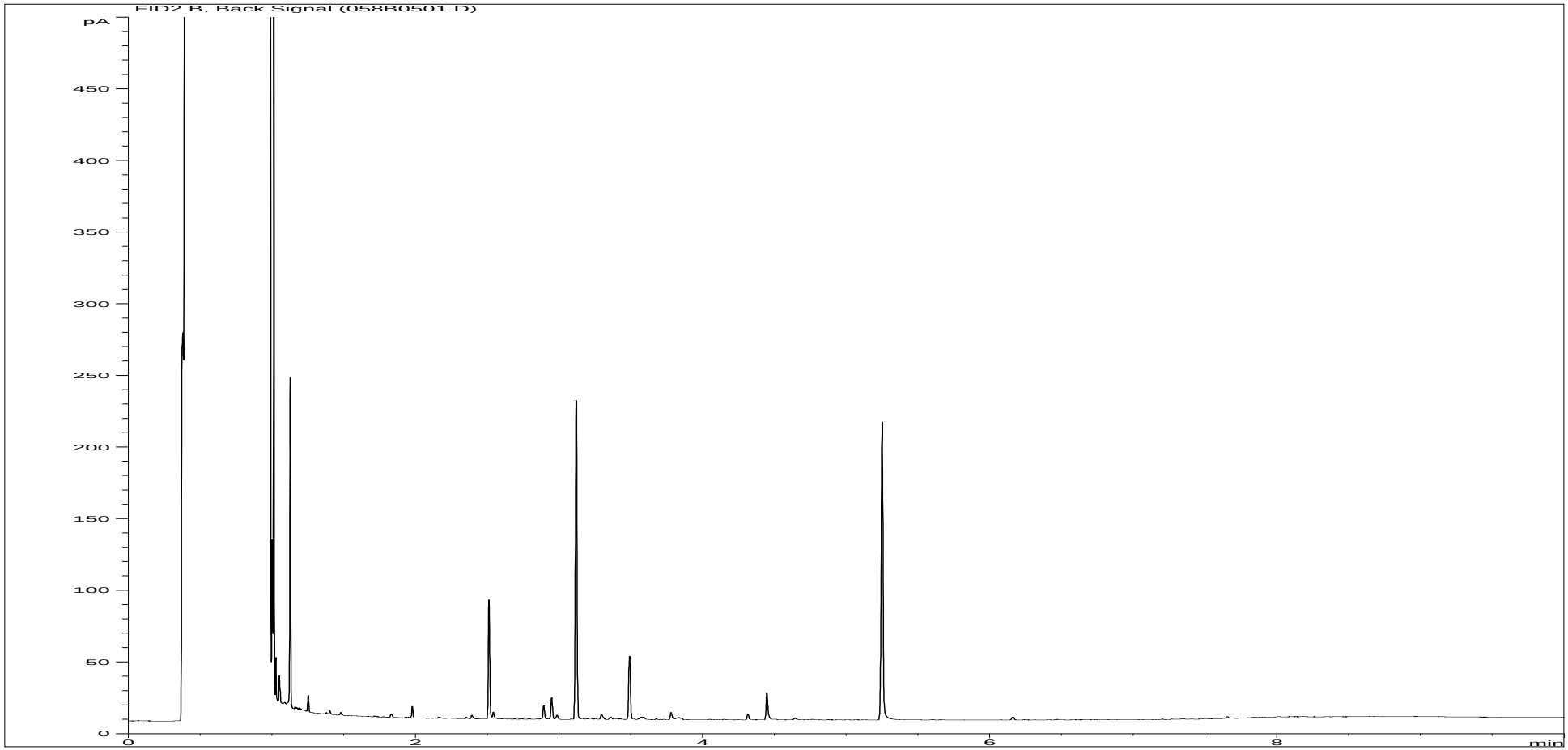
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1120207ALI	**Job Number:**	W12_0208
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423367 ES 1 0.20
Acquisition Date/Time:	23-May-11, 14:28:33		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\009F0601.D		

Where individual results are flagged see report notes for status.

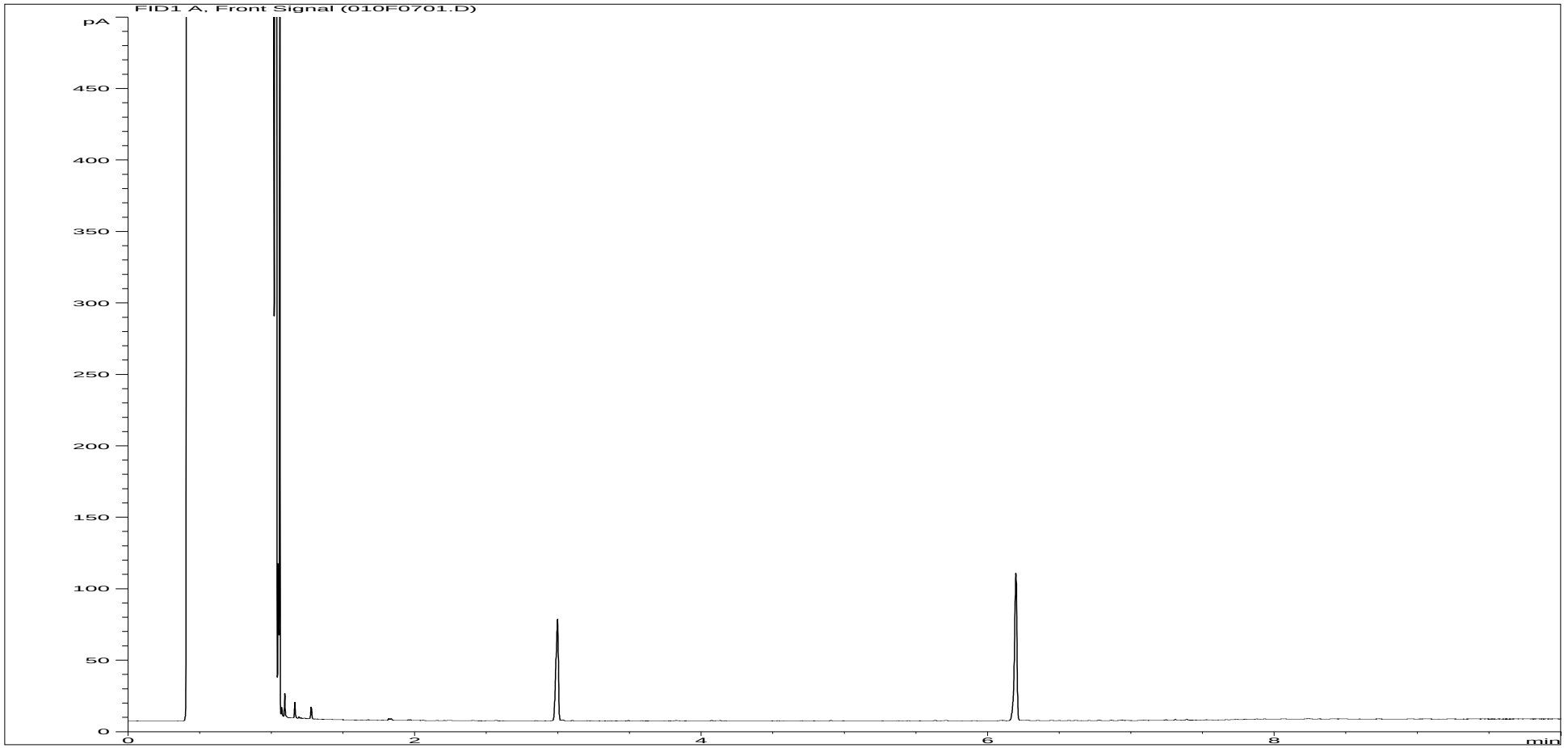
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1120207ARO	**Job Number:**	W12_0208
Multiplier:	0.016	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423367 ES 1 0.20
Acquisition Date/Time:	23-May-11, 14:11:27		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\058B0501.D		

Where individual results are flagged see report notes for status.

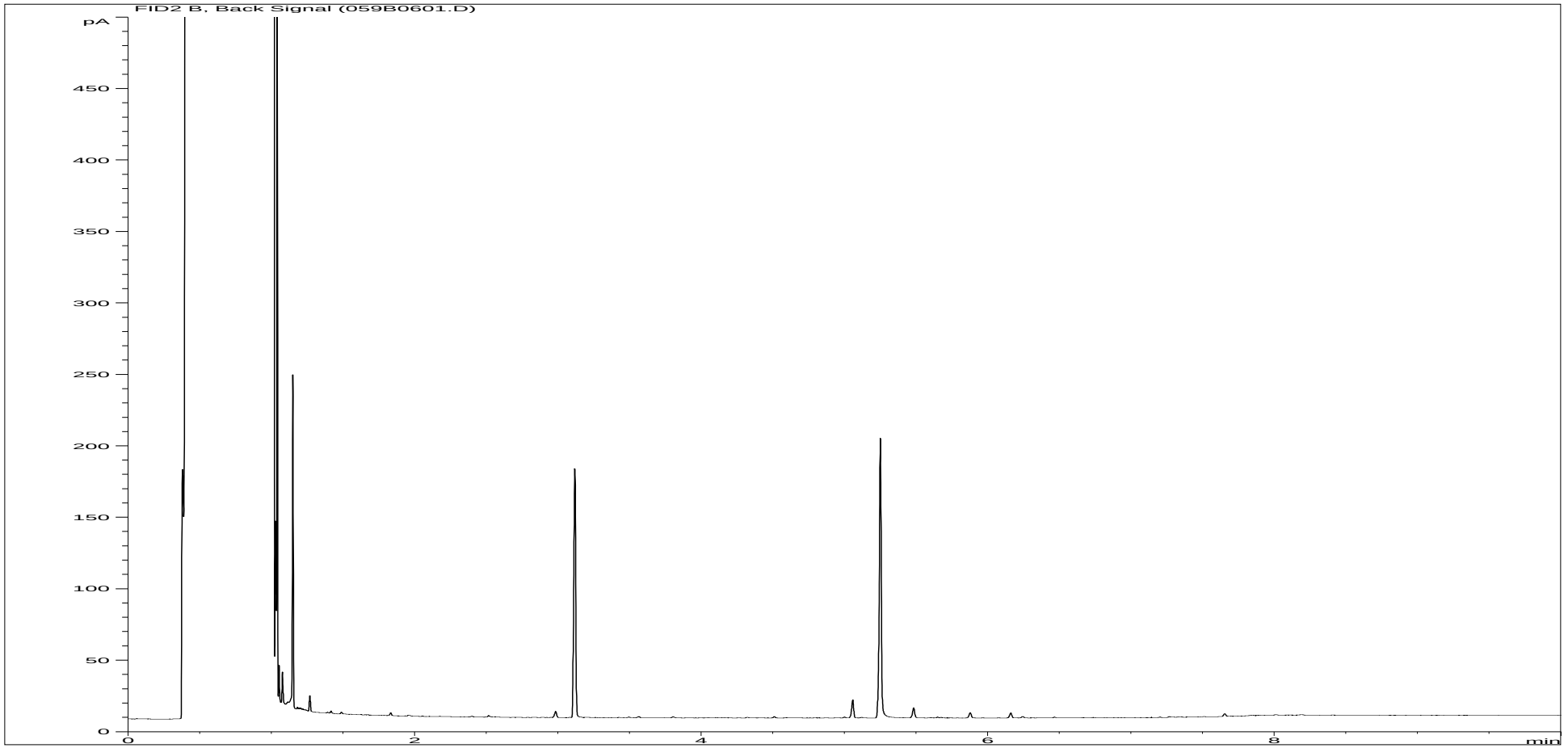
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1120208ALI	**Job Number:**	W12_0208
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423368 ES 1 0.20
Acquisition Date/Time:	23-May-11, 14:45:43		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\010F0701.D		

Where individual results are flagged see report notes for status.

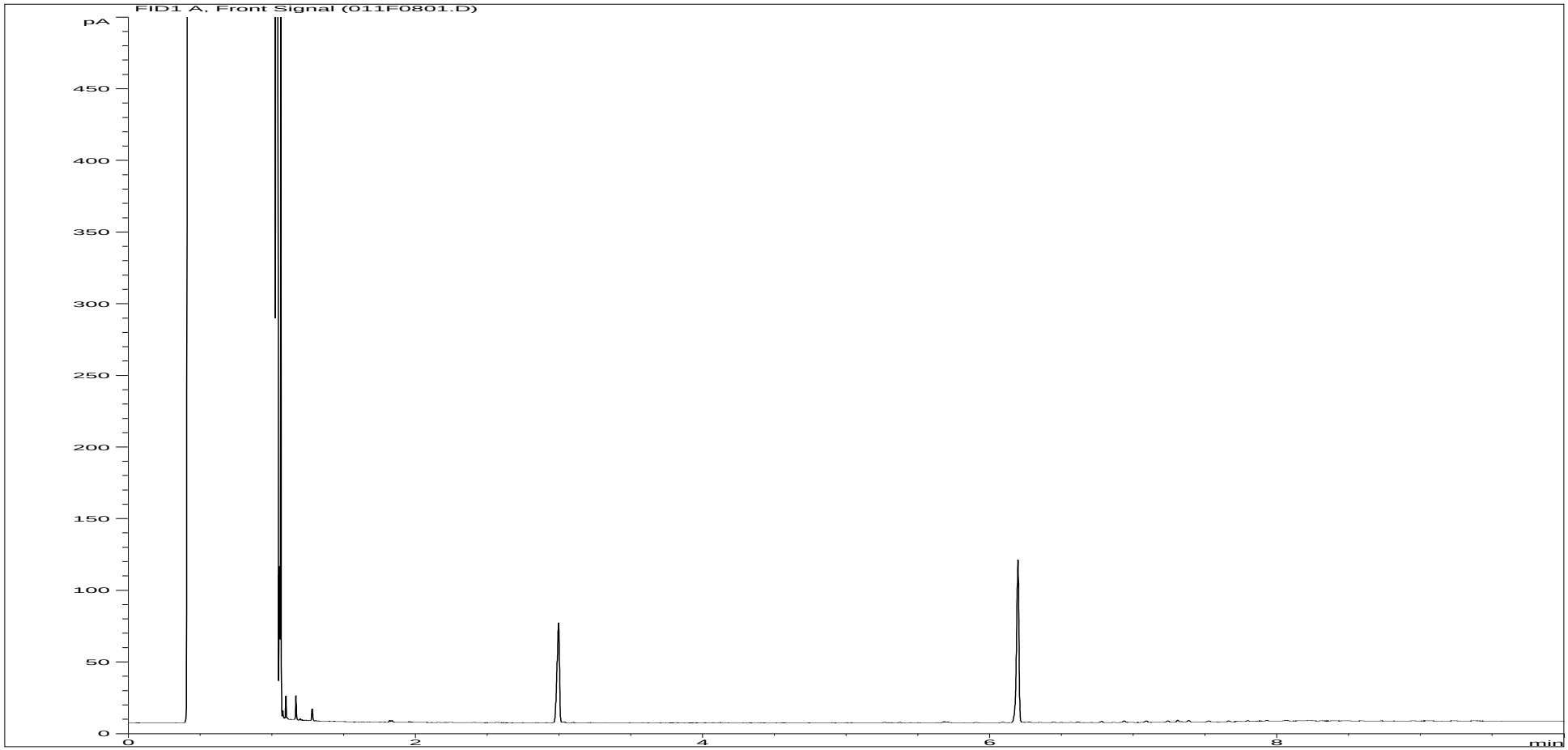
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1120208ARO	**Job Number:**	W12_0208
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423368 ES 1 0.20
Acquisition Date/Time:	23-May-11, 14:28:33		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\059B0601.D		

Where individual results are flagged see report notes for status.

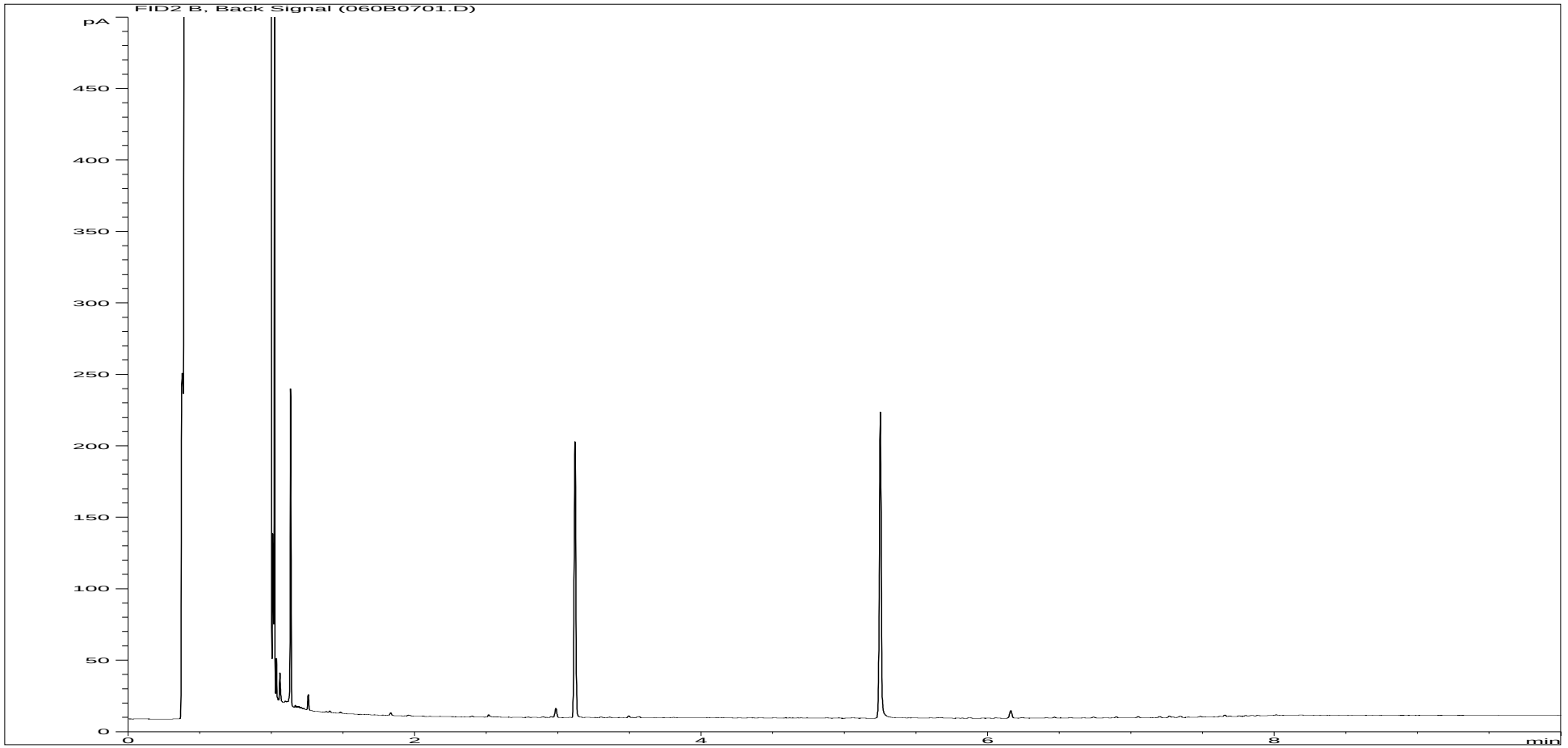
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1120209ALI	**Job Number:**	W12_0208
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423369 ES 1 0.20
Acquisition Date/Time:	23-May-11, 15:02:50		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\011F0801.D		

Where individual results are flagged see report notes for status.

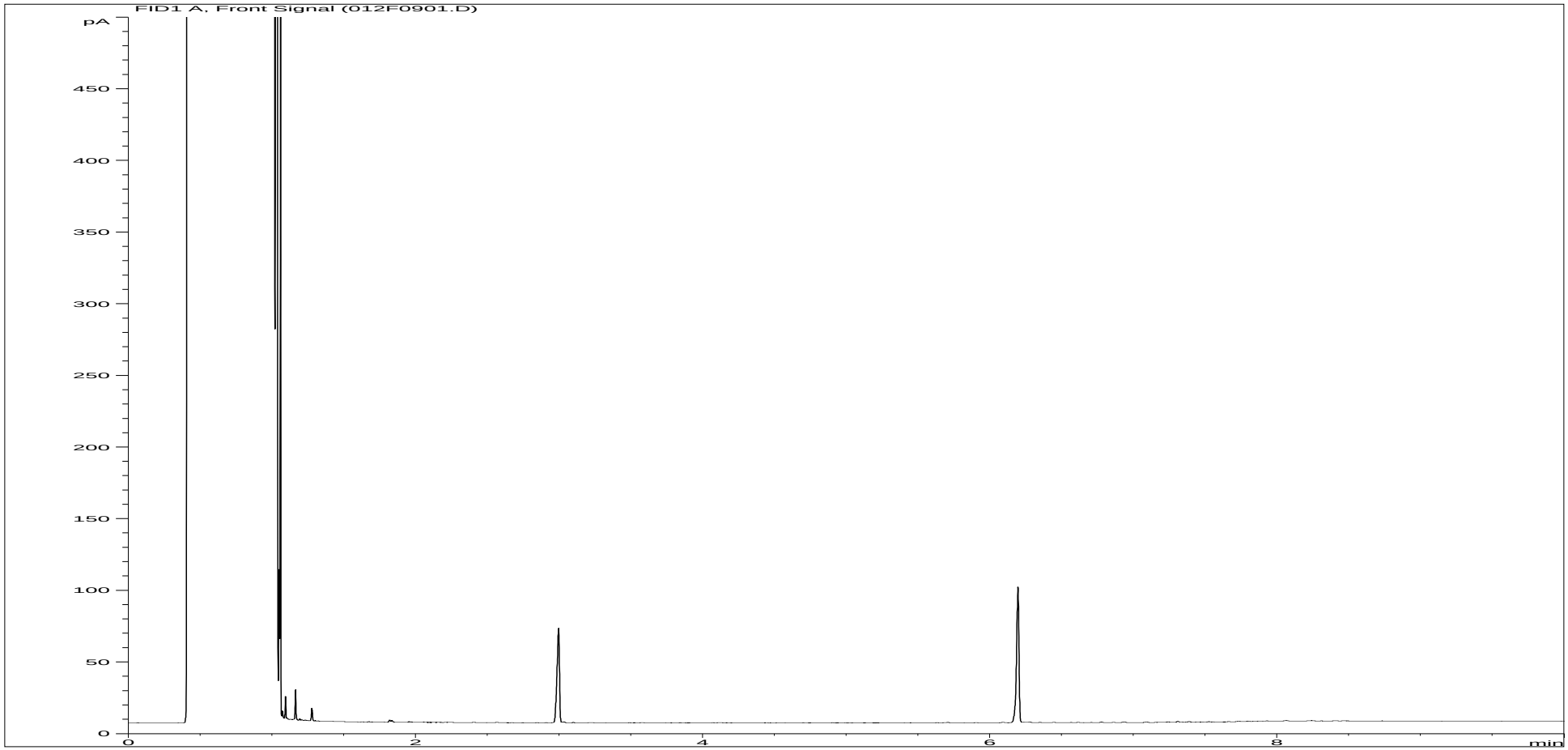
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1120209ARO	**Job Number:**	W12_0208
Multiplier:	0.016	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423369 ES 1 0.20
Acquisition Date/Time:	23-May-11, 14:45:43		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\060B0701.D		

Where individual results are flagged see report notes for status.

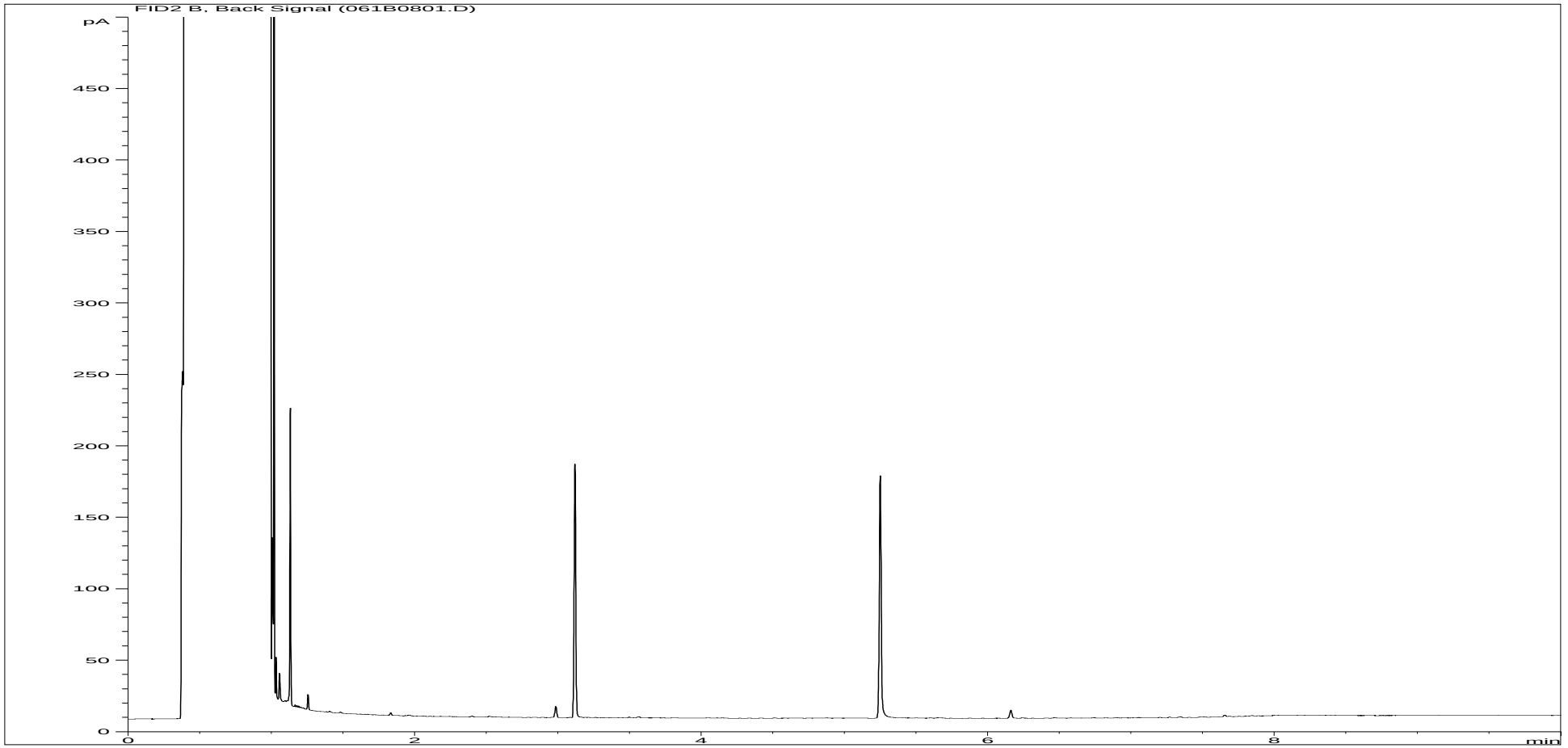
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1120210ALI	**Job Number:**	W12_0208
Multiplier:	0.019	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423370 ES 1 0.20
Acquisition Date/Time:	23-May-11, 15:20:12		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\012F0901.D		

Where individual results are flagged see report notes for status.

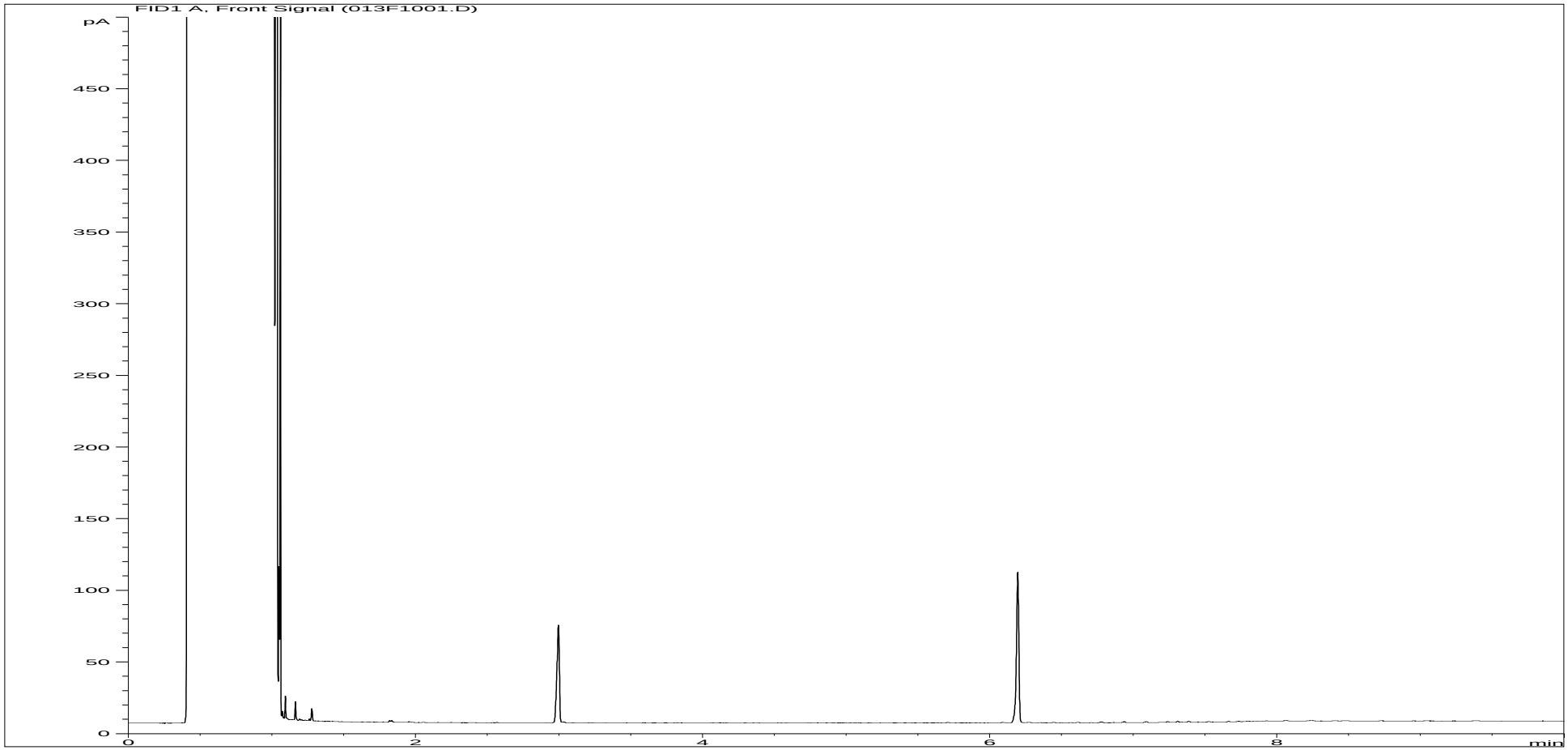
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1120210ARO	**Job Number:**	W12_0208
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423370 ES 1 0.20
Acquisition Date/Time:	23-May-11, 15:02:50		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\061B0801.D		

Where individual results are flagged see report notes for status.

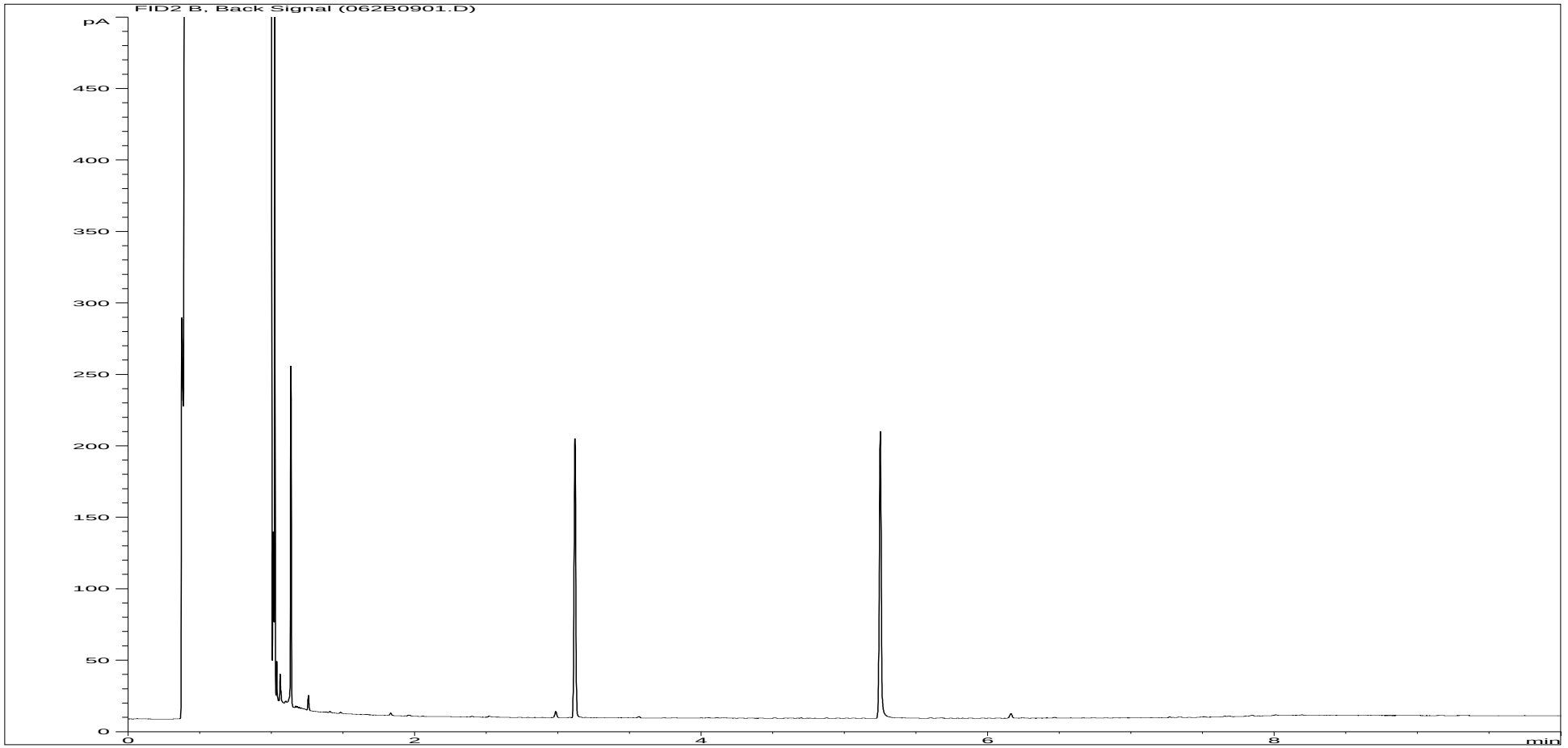
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1120211ALI	**Job Number:**	W12_0208
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423371 ES 1 0.20
Acquisition Date/Time:	23-May-11, 15:37:21		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\013F1001.D		

Where individual results are flagged see report notes for status.

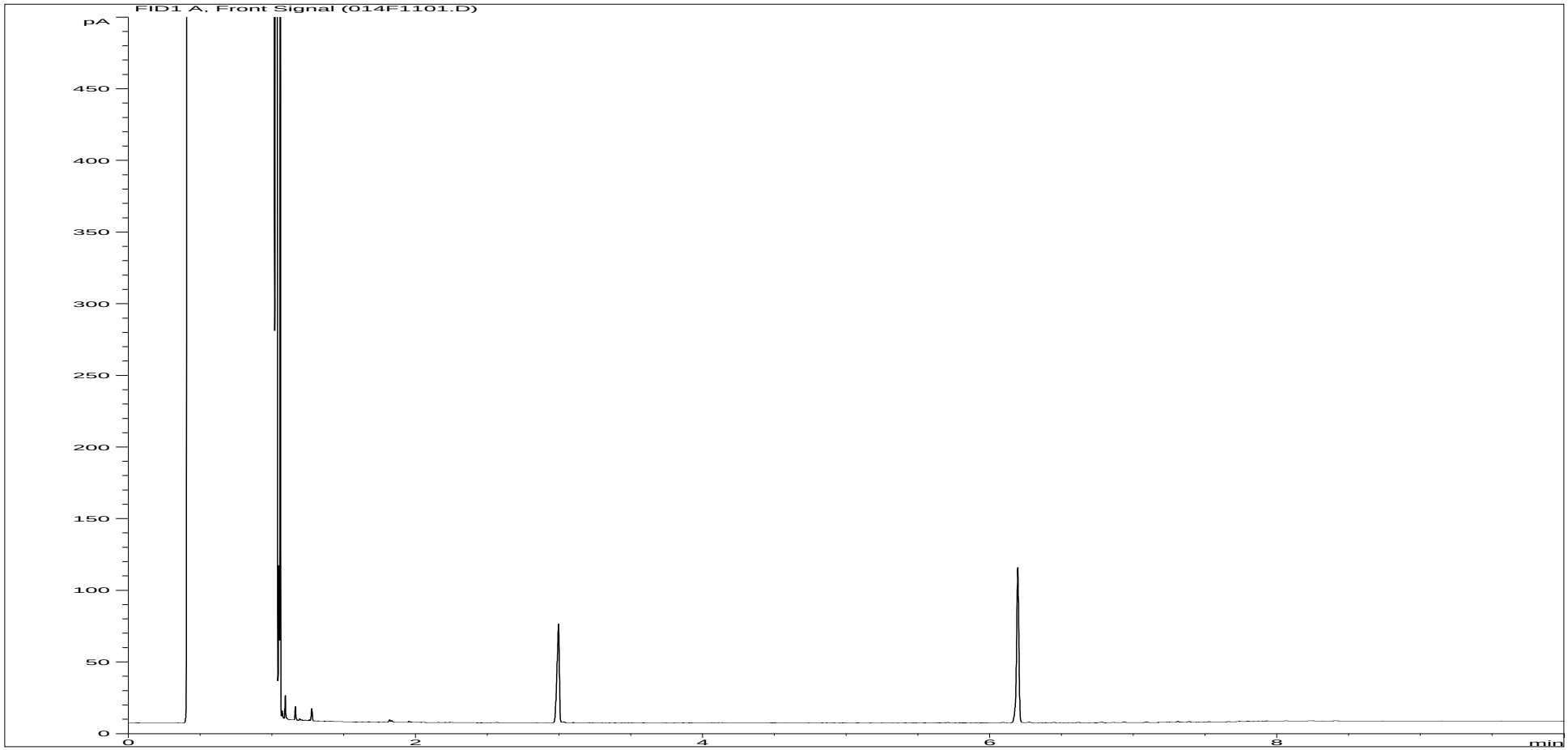
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1120211ARO	**Job Number:**	W12_0208
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423371 ES 1 0.20
Acquisition Date/Time:	23-May-11, 15:20:12		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\062B0901.D		

Where individual results are flagged see report notes for status.

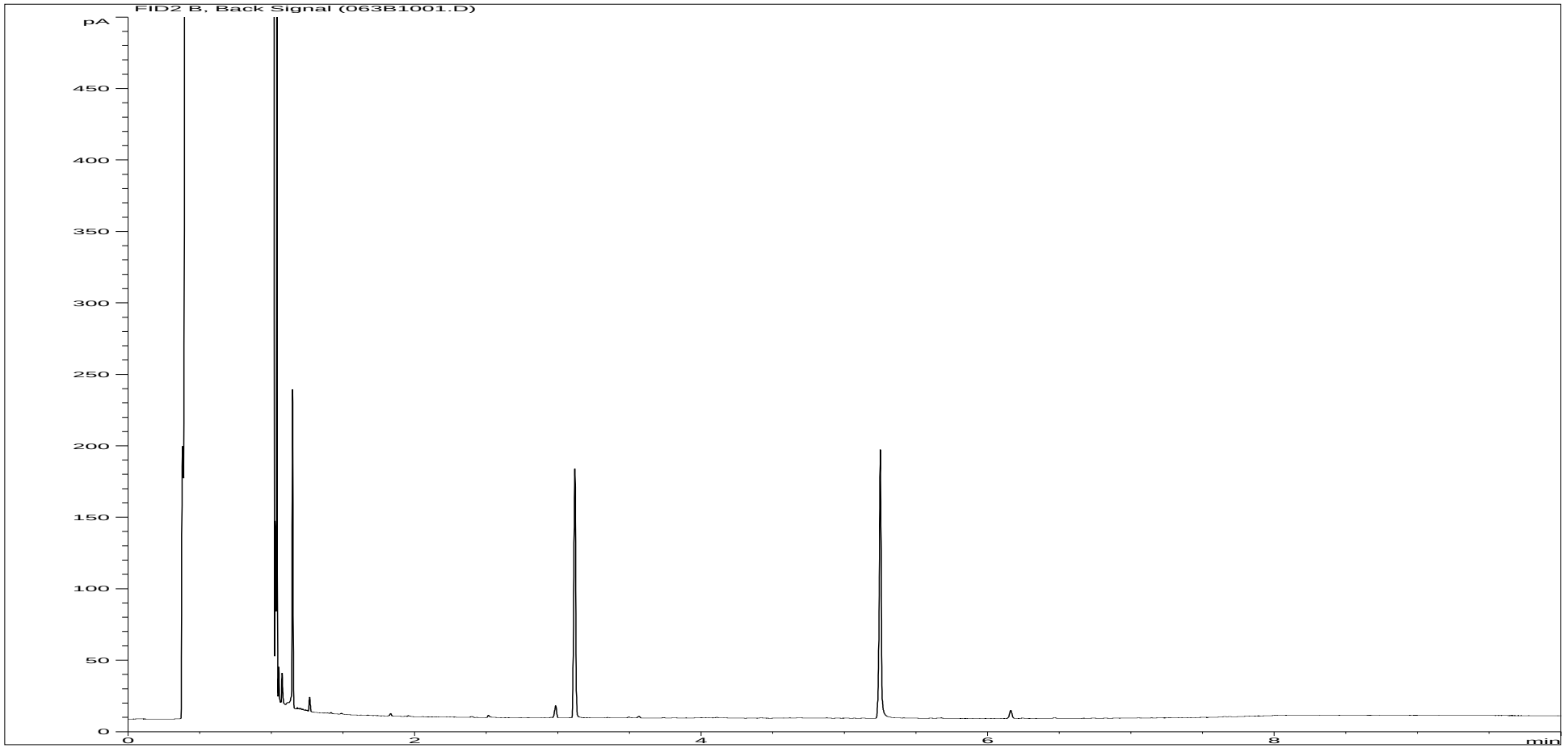
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1120212ALI	**Job Number:**	W12_0208
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423372 ES 1 0.20
Acquisition Date/Time:	23-May-11, 15:54:31		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\014F1101.D		

Where individual results are flagged see report notes for status.

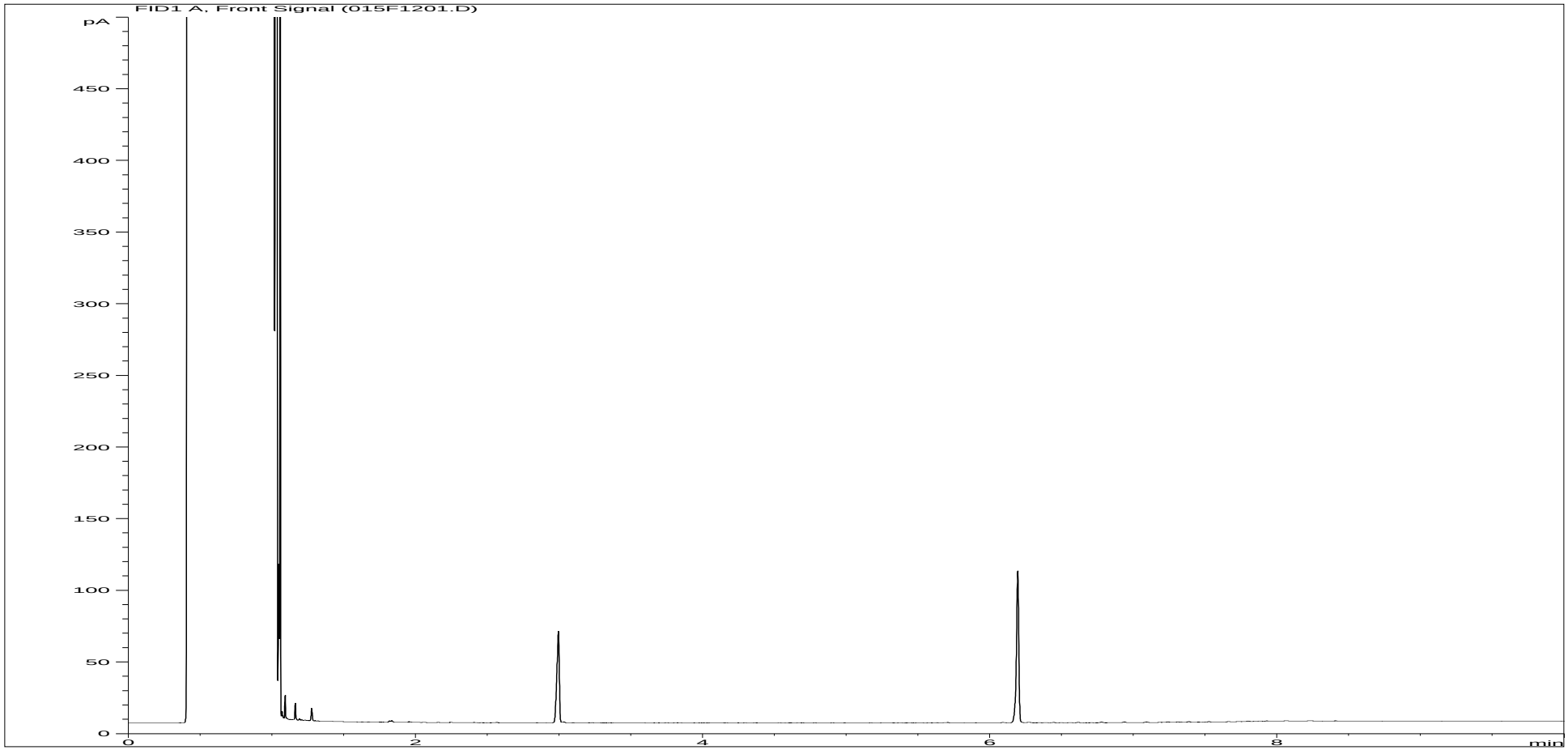
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1120212ARO	**Job Number:**	W12_0208
Multiplier:	0.016	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423372 ES 1 0.20
Acquisition Date/Time:	23-May-11, 15:37:21		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\063B1001.D		

Where individual results are flagged see report notes for status.

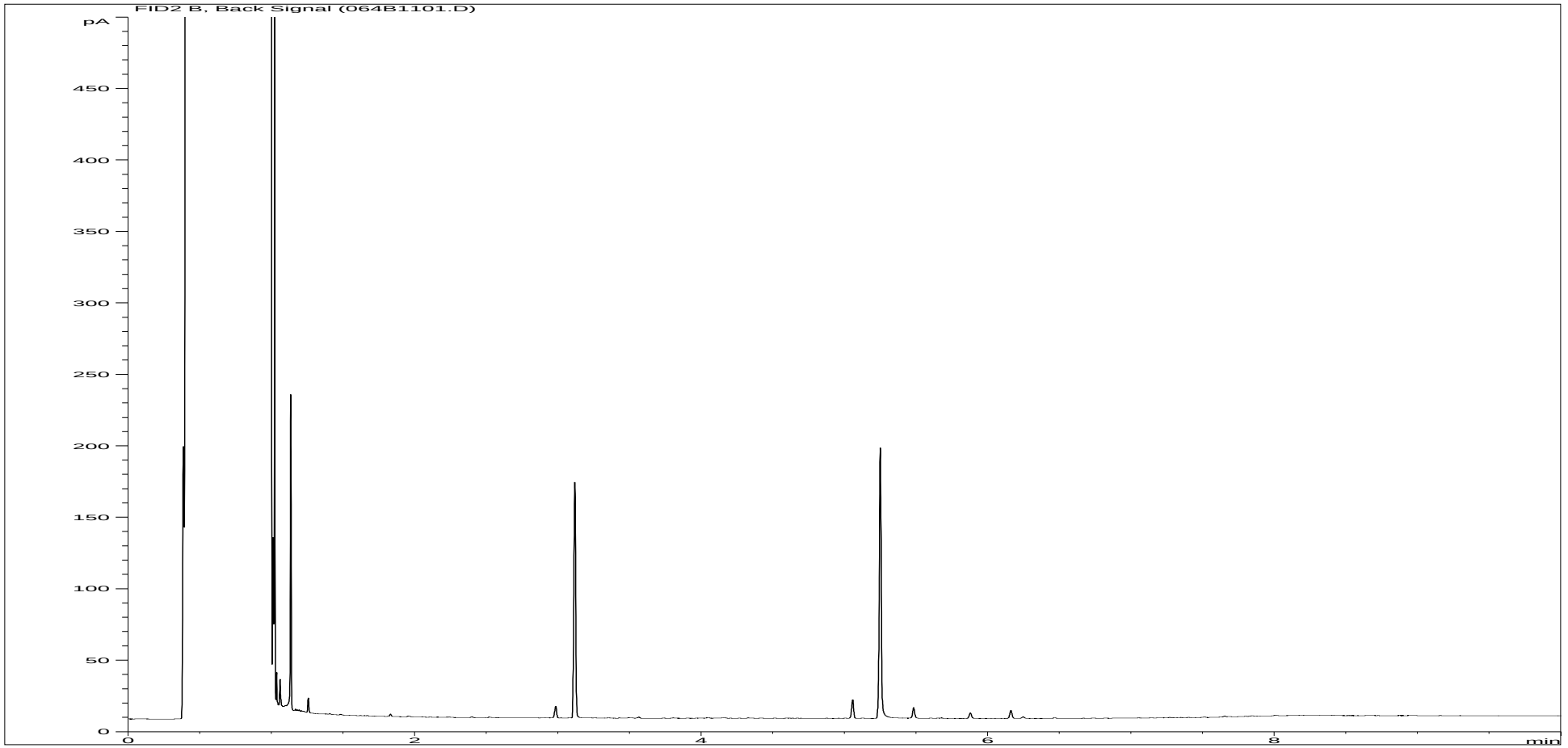
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1120213ALI	**Job Number:**	W12_0208
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423373 ES 1 0.20
Acquisition Date/Time:	23-May-11, 16:11:38		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\015F1201.D		

Where individual results are flagged see report notes for status.

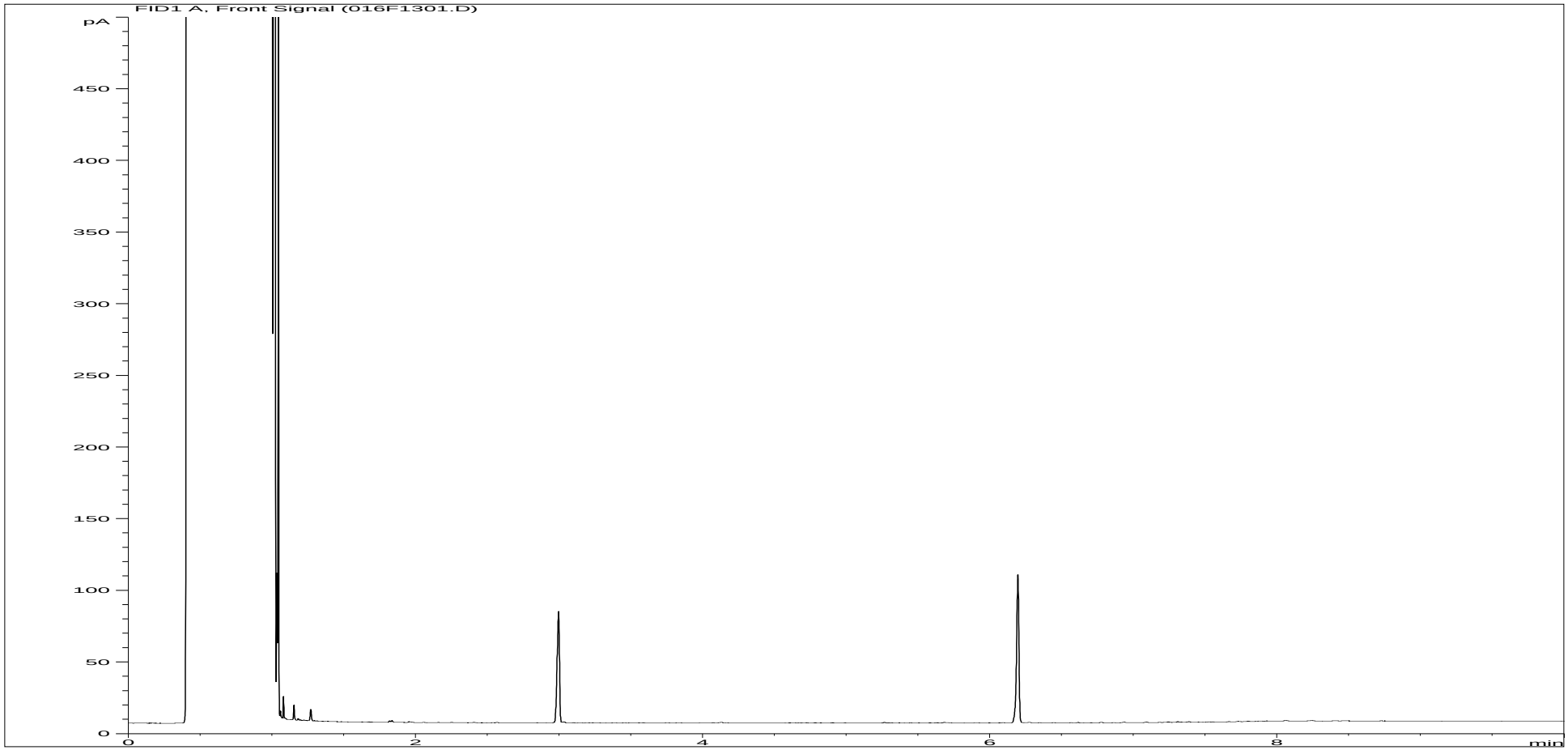
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1120213ARO	**Job Number:**	W12_0208
Multiplier:	0.016	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423373 ES 1 0.20
Acquisition Date/Time:	23-May-11, 15:54:31		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\064B1101.D		

Where individual results are flagged see report notes for status.

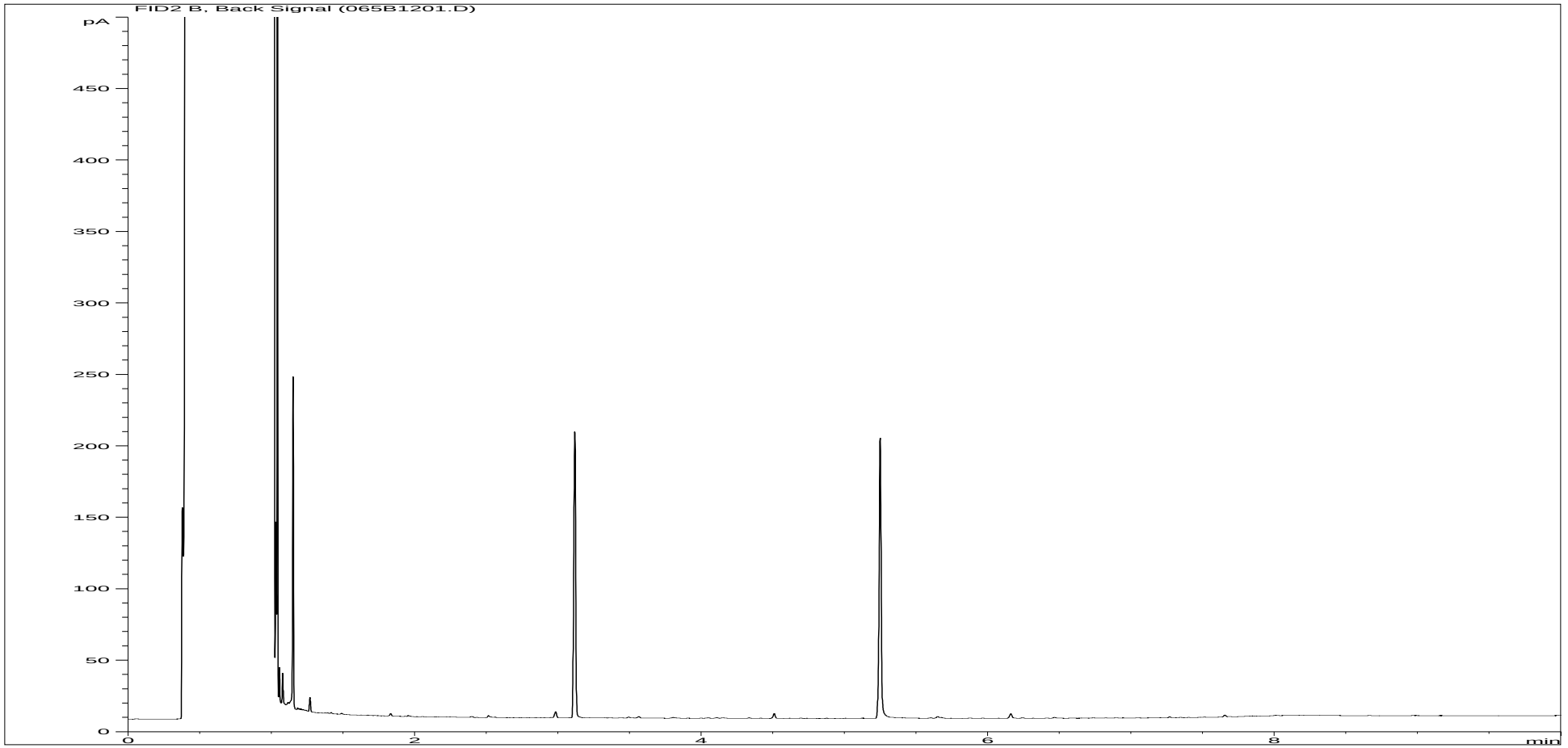
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1120214ALI	**Job Number:**	W12_0208
Multiplier:	0.02	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423374 ES 1 0.20
Acquisition Date/Time:	23-May-11, 16:28:58		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\016F1301.D		

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1120214ARO	**Job Number:**	W12_0208
Multiplier:	0.015	**Client:**	Soil Mechanics
Dilution:	1	**Site:**	Jackson CE, Warm-Up Track, OP
Acquisition Method:	TPH_RUNF.M	**Client Sample Ref:**	FV423374 ES 1 0.20
Acquisition Date/Time:	23-May-11, 16:11:38		
Datafile:	D:\TES\DATA\Y2011\052311TPH_GC15\052311A 2011-05-23 13-00-43\065B1201.D		

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	520VOC.MS11\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV423365 ES 1 0.20	**Date Booked in:**	18-May-11	**Method:**	Headspace
LIMS ID Number:	EX1120205	**Date Analysed:**	21-May-11	**Multiplier:**	1
Job Number:	W12_0208	**Operator:**	PR	**Position:**	2

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	78	Dibromofluoromethane	78
1,4-Difluorobenzene	4.00	84	Toluene-d8	99
Chlorobenzene-d5	5.12	88	Bromofluorobenzene	90
1,4-Dichlorobenzene-d4	5.92	68		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	520VOC.MS11\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV423366 ES 1 0.20	**Date Booked in:**	18-May-11	**Method:**	Headspace
LIMS ID Number:	EX1120206	**Date Analysed:**	21-May-11	**Multiplier:**	1
Job Number:	W12_0208	**Operator:**	PR	**Position:**	3

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	89	Dibromofluoromethane	70
1,4-Difluorobenzene	4.00	90	Toluene-d8	100
Chlorobenzene-d5	5.12	92	Bromofluorobenzene	91
1,4-Dichlorobenzene-d4	5.91	79		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	520VOC.MS11\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV423367 ES 1 0.20	**Date Booked in:**	18-May-11	**Method:**	Headspace
LIMS ID Number:	EX1120207	**Date Analysed:**	21-May-11	**Multiplier:**	1
Job Number:	W12_0208	**Operator:**	PR	**Position:**	4

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	85	Dibromofluoromethane	55
1,4-Difluorobenzene	4.00	87	Toluene-d8	100
Chlorobenzene-d5	5.12	89	Bromofluorobenzene	89
1,4-Dichlorobenzene-d4	5.92	75		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	520VOC.MS11\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV423368 ES 1 0.20	**Date Booked in:**	18-May-11	**Method:**	Headspace
LIMS ID Number:	EX1120208	**Date Analysed:**	21-May-11	**Multiplier:**	1
Job Number:	W12_0208	**Operator:**	PR	**Position:**	5

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	85	Dibromofluoromethane	88
1,4-Difluorobenzene	4.00	87	Toluene-d8	98
Chlorobenzene-d5	5.12	88	Bromofluorobenzene	90
1,4-Dichlorobenzene-d4	5.92	75		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	520VOC.MS11\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV423369 ES 1 0.20	**Date Booked in:**	18-May-11	**Method:**	Headspace
LIMS ID Number:	EX1120209	**Date Analysed:**	21-May-11	**Multiplier:**	1
Job Number:	W12_0208	**Operator:**	PR	**Position:**	6

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	86	Dibromofluoromethane	63
1,4-Difluorobenzene	4.00	89	Toluene-d8	100
Chlorobenzene-d5	5.12	90	Bromofluorobenzene	91
1,4-Dichlorobenzene-d4	5.91	68		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	520VOC.MS11\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV423370 ES 1 0.20	**Date Booked in:**	18-May-11	**Method:**	Headspace
LIMS ID Number:	EX1120210	**Date Analysed:**	21-May-11	**Multiplier:**	1
Job Number:	W12_0208	**Operator:**	PR	**Position:**	7

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	69	Dibromofluoromethane	86
1,4-Difluorobenzene	4.00	78	Toluene-d8	101
Chlorobenzene-d5	5.12	83	Bromofluorobenzene	88
1,4-Dichlorobenzene-d4	5.91	64		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	520VOC.MS11\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV423371 ES 1 0.20	**Date Booked in:**	18-May-11	**Method:**	Headspace
LIMS ID Number:	EX1120211	**Date Analysed:**	21-May-11	**Multiplier:**	1
Job Number:	W12_0208	**Operator:**	PR	**Position:**	8

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	88	Dibromofluoromethane	73
1,4-Difluorobenzene	4.00	91	Toluene-d8	101
Chlorobenzene-d5	5.12	93	Bromofluorobenzene	88
1,4-Dichlorobenzene-d4	5.91	77		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	520VOC.MS11\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV423372 ES 1 0.20	**Date Booked in:**	18-May-11	**Method:**	Headspace
LIMS ID Number:	EX1120212	**Date Analysed:**	21-May-11	**Multiplier:**	1
Job Number:	W12_0208	**Operator:**	PR	**Position:**	9

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	90	Dibromofluoromethane	66
1,4-Difluorobenzene	4.00	94	Toluene-d8	99
Chlorobenzene-d5	5.12	95	Bromofluorobenzene	90
1,4-Dichlorobenzene-d4	5.92	76		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	520VOC.MS11\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV423373 ES 1 0.20	**Date Booked in:**	18-May-11	**Method:**	Headspace
LIMS ID Number:	EX1120213	**Date Analysed:**	21-May-11	**Multiplier:**	1
Job Number:	W12_0208	**Operator:**	PR	**Position:**	10

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	95	Dibromofluoromethane	72
1,4-Difluorobenzene	4.00	97	Toluene-d8	100
Chlorobenzene-d5	5.12	98	Bromofluorobenzene	90
1,4-Dichlorobenzene-d4	5.91	80		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: No

Customer and Site Details:	Soil Mechanics: Jackson CE, Warm-Up Track, OP	**Directory/Quant file:**	520VOC.MS11\ Initial Cal bration	**Matrix:**	Leachate
Sample Details:	FV423374 ES 1 0.20	**Date Booked in:**	18-May-11	**Method:**	Headspace
LIMS ID Number:	EX1120214	**Date Analysed:**	21-May-11	**Multiplier:**	1
Job Number:	W12_0208	**Operator:**	PR	**Position:**	11

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-D bromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propy benzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethy benzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Buty benzene	98-06-6	-	< 1	-
1,2,4-Trimethy benzene	95-63-6	-	< 1	-
sec-Buty benzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Buty benzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	89	Dibromofluoromethane	40
1,4-Difluorobenzene	4.00	93	Toluene-d8	100
Chlorobenzene-d5	5.12	94	Bromofluorobenzene	89
1,4-Dichlorobenzene-d4	5.91	70		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Analytical and Deviating Sample Overview

Customer Soil Mechanics
Site Jackson CE, Warm-Up Track, OP
Report No W120208

Consignment No
Date Logged 18-May-2011
Chain of Custody R108011
Report Due 23-May-2011

ID Number	Description	MethodID	CUSTSERV	GROHSA	ICPMSW									ICPWATVAR		KONENS	LeachPrep	PAHMSW	PHEHPLC	TPHFID SI	VOCHSAW
		Sampled	Report A (CEN)C	GRO-HSA (AA-2012)	Nickel as Ni MS (Dissolved)	Chromium as Cr MS (Dissolved)	Cadmium as Cd MS (Dissolved)	Copper as Cu MS (Dissolved)	Lead as Pb MS (Dissolved)	Zinc as Zn MS (Dissolved)	Arsenic as As MS (Dissolved)	Mercury as Hg MS (Dissolved)	Selenium as Se MS (Dissolved)	Total Sulphur as SO4 (Diss) VAR	Boron as B (Dissolved) VAR	Ammoniacal Nitrogen (Kone)	Leachate Prep	PAH MS (16)	Phenol HPLC (Low)	TPH GC (SI) (0.01)	VOC HSA-MS
Accredited to ISO17025					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
EX/1120205	JC03b-FVPsamp1-423365 0.2	09/05/11																			
EX/1120206	JC03b-FVPsamp2-423366 0.2	09/05/11																			
EX/1120207	JC03b-FVPsamp2-423367 0.2	09/05/11																			
EX/1120208	JC03b-FVPsamp4-423368 0.2	09/05/11																			
EX/1120209	JC03b-FVPsamp5-423369 0.2	09/05/11																			
EX/1120210	JC03b-FVPsamp6-423370 0.2	09/05/11																			
EX/1120211	JC03b-FVPsamp7-423371 0.2	09/05/11																			
EX/1120212	JC03b-FVPsamp8-423372 0.2	09/05/11																			
EX/1120213	JC03b-FVPsamp9-423373 0.2	09/05/11																			
EX/1120214	JC03b-FVPsamp10-423374 0.2	09/05/11																			

Note: For analysis where the Report Due date is greater than 7 days (Volatiles, PAH, Pesticides, PCB, Phenols, Herbicides) or 2 days (BOD) after the sampling date, although we will do our utmost to prioritise your samples, they may become deviant whilst being processed in the Laboratory.

In this instance, please contact the Laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time

Requested Analysis Key

	Analysis Required
	Analysis dependant upon trigger result - **Note: due date may be affected if triggered**
	No analysis scheduled
^	Analysis Subcontracted

Where individual results are flagged see report notes for status

The integrity of data for samples/analysis that have been categorised as Deviating may be compromised. Data may not be representative of the sample at the time of sampling

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Water	GROHSA	As Received	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace FID
Water	ICPMSW	As Received	Direct quantitative determination of Metals in water samples using ICPMS
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	PAHMSW	As Received	Determination of PolyAromatic Hydrocarbons in water by pentane extraction GCMS quantitation
Water	PHEHPLC	As Received	Determination of Total Phenol by HPLC
Water	TPHFID-Si	As Received	Determination of speciated pentane extractable hydrocarbons in water by GCFID
Water	VOCHSAW	As Received	Determination of Volatile Organics Compounds or Gasoline Range Hydrocarbons (GRO) by Headspace GCMS

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,
- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,
- Results are expressed as mg/kg
- SG is expressed as g/cm^3@ 15^{o}C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile
CR Denotes Crocidolite
AM Denotes Amosite
NAIIS No Asbestos Identified in Sample

Symbol Reference

^ Sub-contracted analysis. Note: The accreditation status is that assigned by the subcontract laboratory.
$$ Unable to analyse due to the nature of the sample
¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory. Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling
¥ Results for guidance only due to possible interference
& Blank corrected result
I.S Insufficient sample to complete requested analysis
I.S(g) Insufficient sample to re-analyse, results for guidance only
Intf Unable to analyse due to interferences
N.D Not determined
N.Det Not detected
Req Analysis requested, see attached sheets for results
Þ Raised detection limit due to nature of the sample
***** All accreditation has been removed by the laboratory for this result
‡ MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

END OF REPORT

Where individual results are flagged see report notes for status.

ATTACHMENT F2: 2E) STOCKPILE DATA

Olympic Park Site Investigation
Environmental Analysis - Soil Samples
Tested by Scientifics Bretby and results adjusted for dry weight
Where more than one result is available the worst case is reported
Location(s):
Report produced:

v3.01.36

NOTES:
$$ unable to analyse due to nature of sample.
Asbestos ID & Quantification Key
NADIS No Asbestos Detected in Sample
AC Actinolite, AM Amosite, AN Anthophylite, CH Chrysotile, CR Crocidolite, TR Tremolite
Note additional information may be recorded on the test certificates and in the CNMT_REM field of the AGS data.

	Hole Name			WF/SCRP/S01/049	WF/SCRP/S01/050	WF/SCRP/S01/051	WF/SCRP/S01/052	WF/SCRP/S01/053	WF/SCRP/S01/054	WF/SCRP/S01/055	WF/SCRP/S01/056	WF/SCRP/S01/057	WF/SCRP/S01/058	WF/SCRP/S01/059	WF/SCRP/S01/063	WF/SCRP/S01/064	WF/SCRP/S01/065	WF/SCRP/S01/067	WF/SCRP/S01/066	WF/SCRP/S01/069	WF/SCRP/S01/068	WF/SCRP/S01/070	WF/SCRP/S01/071	WF/SCRP/S01/072	WF/SCRP/S01/073
	Sample Material			Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)
	Sample Location																									
	Sample Top	m		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Sample Batch Reference			COC 12218	COC 12218	COC 12218	COC 12218	COC 12218	COC 12218	COC 12218	COC 12241	COC 12241	COC 12241	COC 12241	COC 12265	COC 12265	COC 12265	COC 12265	COC 12265	COC 12265	COC 12265	COC 12305	COC 12305	COC 12305	COC 12305
	Sample Date			06/04/2011	06/04/2011	06/04/2011	06/04/2011	06/04/2011	06/04/2011	06/04/2011	14/04/2011	14/04/2011	14/04/2011	14/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	11/05/2011	11/05/2011	11/05/2011	11/05/2011
METALS etc	Total Moisture @ 105 C	%	IHM based on BS1016 section 104	9.5	15.9	16.2	13.5	14.9	12.8	18.3	14.6	18.7	14.8	14.9	16.9	19	17.7	15.1	16.6	18.5	17	10	13.7	13.6	15.2
	pH	pH Units	Electrode	9.6	10	9.9	9.6	10	9.9	10	8.6	8.5	8.8	8.8	10.1	10.1	10	9.7	9.9	9.8	10.2	8.2	8.2	8.2	8.3
	Ammoniacal Nitrogen	mg/kg	Discrete Colourimetry	4.5	5.3	4.6	4.4	5	5	5.4	8.1	8.1	8.7	7.9	5.8	4.8	5.9	4.7	5	5.1	5.8	6.7	7.2	6.8	7.1
	Sulphate as SO (acid sol)	mg/kg	ICP-OES	2790	3150	2920	3280	5030	2810	2790	1670	2550	2310	2170	2790	3580	3480	3420	3180	3720	3380	1450	1330	1270	1480
	Sulphate as SO (water sol)	mg/kg	ICP-OES	2170	2780	2450	1880	4460	2790	3050	1210	2170	1700	1710	2800	2970	2740	2410	2120	2520	2930	1180	1280	1040	1110
	Arsenic (MS)	mg/kg	ICP-MS	8.8	8.9	8.2	7.2	7.3	9.1	7.4	8.7	8.8	8.3	7.8	7.6	10	9	8.1	8.1	8.9	11.1	9.8	12	9.9	9.9
	Cadmium (MS)	mg/kg	ICP-MS	0.2	0.27	0.22	<0.20	0.22	0.26	<0.21	0.32	0.28	0.24	0.27	<0.21	0.25	0.23	0.23	0.27	0.48	0.29	0.25	0.31	0.28	0.27
	Chromium (MS)	mg/kg	ICP-MS	18.7	23.9	19.5	17.2	16.7	20.2	18	21.6	21.7	20.4	16.2	17.5	22	25.8	19.8	21	21.1	23.6	22	25	22	21.8
	Copper (MS)	mg/kg	ICP-MS	42.5	65.1	65.2	69.1	41.9	55	40.5	84.3	79.5	76.5	71	58.5	82.5	71.2	69.1	65	73	92	89	108.4	88.7	90.2
	Lead (MS)	mg/kg	ICP-MS	90.1	108.9	136.5	110	77.2	114.7	76.1	306	153.2	151.9	176.5	106.6	187	150.2	161.9	116.6	156.9	163.5	130.9	163.5	139.3	135.2
	Mercury (MS)	mg/kg	ICP-MS	0.57	0.58	0.82	<0.51	<0.52	<0.50	<0.52	1.58	1.06	0.82	1	<0.53	1.04	0.65	0.65	0.6	0.72	0.88	0.74	1.06	0.8	0.77
	Nickel (MS)	mg/kg	ICP-MS	16.1	18.8	16.2	14.1	14.7	16.6	15.4	16.7	17.7	16.9	14.6	14.9	19.3	17.3	15.6	16.3	18.2	19.5	15.7	18.3	15.7	15.7
	Selenium (MS)	mg/kg	ICP-MS	<0.5	0.6	<0.5	0.6	0.6	0.6	<0.5	0.6	1.2	1	1.1	0.5	0.6	0.6	0.6	0.7	0.7	0.6	0.5	<0.5	0.6	0.6
	Zinc (MS)	mg/kg	ICP-MS	75.4	101.9	95.8	82	63.6	88.9	61.7	127.8	122.7	108.8	124	73.3	109.2	85.8	103.3	96.6	96.9	118	118.8	145	123	118
	Cyanide (Free)	mg/kg	Distillation / colorimetry	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
	Cyanide (Total)	mg/kg	Distillation / colorimetry	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
ALI - ARO	Aliphatics >C5 - C6	mg/kg	GC-FID	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.37	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Aliphatics >C6 - C8	mg/kg	GC-FID	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Aliphatics >C8 - C10	mg/kg	GC-FID	<4	<5	<5	<5	<4.81	<4.69	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<4	<5	<5	<5
	Aliphatics >C10 - C12	mg/kg	GC-FID	<4	<5	<5	<5	<4.81	<4.69	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<4	<5	<5	<5
	Aliphatics >C12 - C16	mg/kg	GC-FID	11	5.93	8.46	9.28	14	9.6	12.9	13	9	19.2	9.82	15.4	13.3	14.2	23.4	13.5	25.9	15.4	4.98	<5	<5	10.8
	Aliphatics >C16 - C21	mg/kg	GC-FID	22.2	12.5	23	23.7	26.9	26.3	31.2	39.6	23	42.5	8.75	36.8	31.1	32	61.7	34.4	52.3	32.8	13.6	17	7.43	28.7
	Aliphatics >C21 - C35	mg/kg	GC-FID	67.8	68.7	62.5	74.1	73.3	109.5	152	118	80.4	174	83.5	103.2	89.9	87.8	150	99.4	171	100.6	92.7	117	59.7	163
	Aromatics >C5 - C7	mg/kg	GC-FID	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Aromatics >C7 - C8	mg/kg	GC-FID	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Aromatics >C8 - C10	mg/kg	GC-FID	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<4	<5	<5	<5
	Aromatics >C10 - C12	mg/kg	GC-FID	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5.14	<5	<5	<4	<5	<5	<5
	Aromatics >C12 - C16	mg/kg	GC-FID	<4	<5	<5	<5	5.03	10.23	5.01	5.57	5	11.9	6.05	<5	4.99	6.28	13.2	15.1	12.5	8.05	<4	<5	<5	<5
	Aromatics >C16 - C21	mg/kg	GC-FID	26.4	18.3	35.2	23.8	31.8	67	44.4	29.5	15	42.5	21.7	26.6	27	31	71.5	40.2	60.7	32.9	<4	6.89	6.63	13.6
	Aromatics >C21 - C35	mg/kg	GC-FID	46.2	59.2	55.6	43.2	54.3	113.3	141	95.3	50.2	92.5	63	85	74	79.3	267	168	150	99.4	37.6	51.2	40.7	68
PAH	Acenaphthene	mg/kg	GC-MS	0.1	0.1	0.1	<0.09	0.18	0.16	0.13	0.25	0.14	0.43	0.21	0.14	0.15	0.19	0.22	0.16	0.4	0.18	<0.09	<0.09	0.1	<0.09
	Acenaphthylene	mg/kg	GC-MS	<0.09	<0.10	<0.10	<0.09	<0.09	0.1	<0.10	0.13	<0.10	0.2	0.1	0.28	0.22	0.2	0.93	0.23	0.36	0.23	<0.09	0.1	<0.09	<0.09
	Anthracene	mg/kg	GC-MS	0.21	0.17	0.25	0.25	0.29	0.39	0.21	0.36	0.22	0.54	0.2	0.34	0.33	0.75	1.3	0.91	0.7	0.35	0.14	0.16	0.22	0.22
	Benzo(a)anthracene	mg/kg	GC-MS	0.53	0.43	0.6	0.52	0.78	0.85	0.6	0.64	0.44	0.87	0.49	0.79	0.68	1.08	2.6	0.73	1.3	0.76	0.38	0.45	0.65	0.51
	Benzo(a)pyrene	mg/kg	GC-MS	0.46	0.38	0.56	0.47	0.72	0.76	0.56	0.62	0.47	0.85	0.53	1.06	0.83	1.08	3.58	0.8	1.37	0.92	0.46	0.64	0.61	0.53
	Benzo(b)fluoranthene	mg/kg	GC-MS	0.5	0.42	0.53	0.5	0.72	0.81	0.58	0.63	0.44	0.73	0.46	0.97	0.88	1.12	3.63	0.85	1.3	0.89	0.5	0.63	0.72	0.58
	Benzo(g,h,i)perylene	mg/kg	GC-MS	0.28	0.25	0.33	0.29	0.41	0.5	0.34	0.5	0.4	0.65	0.41	0.89	0.72	0.83	2.89	0.71	1.33	0.75	0.41	0.63	0.45	0.45
	Benzo(k)fluoranthene	mg/kg	GC-MS	0.17	0.14	0.17	0.14	0.2	0.24	0.17	0.21	0.16	0.2	0.43	0.32	0.28	0.4	1.3	0.35	0.47	0.3	0.16	0.15	0.2	0.18
	Chrysene	mg/kg	GC-MS	0.4	0.4	0.5	0.44	0.62	0.7	0.54	0.6	0.42	0.75	0.5	0.6	0.53	0.9	2.79	0.66	0.93	0.6	0.31	0.31	0.59	0.45
	Dibenzo(a,h)anthracene	mg/kg	GC-MS	<0.09	<0.10	<0.10	<0.09	0.11	0.1	<0.10	<0.09	<0.10	0.09	<0.09	0.14	0.14	0.15	0.6	0.1	0.2	0.13	<0.09	0.1	<0.09	<0.09
	Fluoranthene	mg/kg	GC-MS	1.06	0.8	1.1	1.03	1.73	1.63	1.24	1.37	0.73	1.38	0.76	1.36	1.33	2.25	3.51	1.41	3.84	1.47	0.62	0.72	1.1	0.8
	Fluorene	mg/kg	GC-...	<0.09	<0.10	<0.10	<0.09	0.1	0.1	0.1	0.15	<0.10	0.31	0.18	0.1	<0.10	0.19	0.26	0.13	0.17	0.1	<0.09	<0.09	<0.09	<0.09
	Indeno(1,2,3-cd)pyrene	mg/kg	GC-MS	0.3	0.3	0.33	0.31	0.5	0.49	0.35	0.5	0.36	0.54	0.4	0.77	0.65	0.74	2.6	0.62	1.09	0.65	0.36	0.48	0.42	0.37
	Naphthalene	mg/kg	GC-MS	<0.09	<0.10	<0.10	<0.09	<0.09	0.19	<0.10	0.27	0.11	0.33	0.18	0.37	0.3	0.78	0.5	0.34	0.6	0.2	0.13	0.17	0.13	0.14
	Phenanthrene	mg/kg	GC-MS	0.46	0.46	0.57	0.51	1.13	0.86	0.65	1.02	0.57	1.82	0.8	0.69	0.63	1.59	1.73	0.79	0.9	0.7	0.39	0.49	0.72	0.55
	Pyrene	mg/kg	GC-MS	0.95	0.76	1.16	0.95	1.43	1.43	1.18	1.74	0.95	2.54	1.26	1.53	1.49	2.37	4.26	1.6	3.77	1.64	0.63	0.85	1.05	0.93
	Total PAHs (USEPA 16)	mg/kg	GC-FID	<5.81	<4.97	<6.60	<5.87	<9.12	9.32	<6.95	<9.06	<5.70	12.22	<6.98	10.39	<9.30	14.67	32.64	10.41	18.75	9.95	<4.84	<6.06	<7.27	<6.11
VOCS	Benzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Bromobenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	7	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Bromochloromethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Bromodichloromethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Bromoform	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Bromomethane	ug/kg	Headspace GCMS	<28	<30	<30	<29	<29	<29	<31	<29	<31	<29	<29	<30	<31	<30	<29	<30	<31	<30	<28	<29	<29	<29
	n-Butylbenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	sec-Butylbenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	tert-Butylbenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Carbon Tetrachloride	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Chlorobenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	7	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Chloroethane	ug/kg	Headspace GCMS	<28	<30	<30	<29	<29	<29	<31	<29	<31	<29	<29	<30	<31	<30	<29	<30	<31	<30	<28	<29	<29	<29
	Chloroform	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Chloromethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	2-Chlorotoluene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	4-Chlorotoluene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,2-Dibromo-3-chloropropane	ug/kg	Headspace GCMS	<28	<30	<30	<29	<29	<29	<31	<29	<31	<29	<29	<30	<31	<30	<29	<30	<31	<30	<28	<29	<29	<29
	Dibromochloromethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,2-Dibromoethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Dibromomethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,2-Dichlorobenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,3-Dichlorobenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,4-Dichlorobenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	7	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	cis 1,2-Dichloroethene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	trans 1,2-Dichloroethene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Dichlorodifluoromethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,1-Dichloroethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,2-Dichloroethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,1-Dichloroethene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,2-Dichloropropane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,3-Dichloropropane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	2,2-Dichloropropane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,1-Dichloropropene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	cis 1,3-Dichloropropene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	trans 1,3-Dichloropropene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Ethylbenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Hexachlorobutadiene	ug/kg	Headspace GCMS	<28	<30	<30	<29	<29	<29	<31	<29	<31	<29	<29	<30	<31	<30	<29	<30	<31	<30	<28	<29	<29	<29
	p-Isopropyltoluene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Naphthalene	ug/kg	Headspace GCMS	<28	<30	<30	<29	<29	<29	<31	<29	<31	<29	<29	<30	<31	<30	<29	<30	<31	<30	<28	<29	<29	<29
	iso-Propylbenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Propylbenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Styrene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,1,1,2-Tetrachloroethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,1,2,2-Tetrachloroethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6

Olympic Park Site Investigation
Environmental Analysis - Soil Samples
Tested by Scientifics Bretby and results adjusted for dry weight
Where more than one result is available the worst case is reported
Location(s):
Report produced:

v3.01.36

NOTES:
$$ unable to analyse due to nature of sample.
Asbestos ID & Quantification Key
NADIS No Asbestos Detected in Sample
AC Actinolite, AM Amosite, AN Anthophylite, CH Chrysotile, CR Crocidolite, TR Tremolite
Note additional information may be recorded on the test certificates and in the CNMT_REM field of the AGS data.

	Hole Name			WF/SCRP/S0 1/049	WF/SCRP/S0 1/050	WF/SCRP/S0 1/051	WF/SCRP/S0 1/052	WF/SCRP/S0 1/053	WF/SCRP/S0 1/054	WF/SCRP/S0 1/055	WF/SCRP/S0 1/056	WF/SCRP/S0 1/057	WF/SCRP/S0 1/058	WF/SCRP/S0 1/059	WF/SCRP/S0 1/063	WF/SCRP/S0 1/064	WF/SCRP/S0 1/065	WF/SCRP/S0 1/067	WF/SCRP/S0 1/066	WF/SCRP/S0 1/069	WF/SCRP/S0 1/068	WF/SCRP/S0 1/070	WF/SCRP/S0 1/071	WF/SCRP/S0 1/072	WF/SCRP/S0 1/073
	Sample Material			Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)
	Sample Location																									
	Sample Top	m		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Sample Batch Reference			COC 12218	COC 12218	COC 12218	COC 12218	COC 12218	COC 12218	COC 12218	COC 12241	COC 12241	COC 12241	COC 12241	COC 12265	COC 12265	COC 12265	COC 12265	COC 12265	COC 12265	COC 12265	COC 12305	COC 12305	COC 12305	COC 12305
	Sample Date			06/04/2011	06/04/2011	06/04/2011	06/04/2011	06/04/2011	06/04/2011	06/04/2011	14/04/2011	14/04/2011	14/04/2011	14/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	11/05/2011	11/05/2011	11/05/2011	11/05/2011
	Tetrachloroethene	ug/kg	Headspace GCMS	<28	<30	<30	<29	<29	<29	<31	<29	<31	<29	<29	<30	<31	<30	<29	<30	<31	<30	<28	<29	<29	<29
	Toluene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,2,3-Trichlorobenzene	ug/kg	Headspace GCMS	<28	<30	<30	<29	<29	<29	<31	<29	<31	<29	<29	<30	<31	<30	<29	<30	<31	<30	<28	<29	<29	<29
	1,2,4-Trichlorobenzene	ug/kg	Headspace GCMS	<28	<30	<30	<29	<29	<29	<31	<29	<31	<29	<29	<30	<31	<30	<29	<30	<31	<30	<28	<29	<29	<29
	1,1,1-Trichloroethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,1,2-Trichloroethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Trichloroethene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Trichlorofluoromethane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,2,3-Trichloropropane	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,2,4-Trimethylbenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	1,3,5-Trimethylbenzene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Vinyl Chloride	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	Vin l Chloride LOW	u /k	Headspace GCMS	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	m and p-Xylene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	7	<6	<6	<6	<6	<6	10	<6	<6	<6	<6	<6	<6	<6	<6	<6
	o-Xylene	ug/kg	Headspace GCMS	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
PHENOLS	Cresols	mg/kg	PHEHPLC	<0.3	<0.4	<0.4	<0.3	<0.4	<0.3	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.3	<0.3	<0.4
	Trimethylphenols	mg/kg	PHEHPLC	<0.3	<0.4	<0.4	<0.3	<0.4	<0.3	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.3	<0.3	<0.4
	Xylenols	mg/kg	PHEHPLC	<0.3	<0.4	<0.4	<0.3	<0.4	<0.3	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.3	<0.3	<0.4
	Phenol	mg/kg	PHEHPLC	<0.3	<0.4	<0.4	<0.3	<0.4	<0.3	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.3	<0.3	<0.4
	Total Phenols	mg/kg	PHEHPLC	<1.3	<1.4	<1.4	<1.4	<1.4	<1.4	<1.5	<1.4	<1.5	<1.4	<1.4	<1.4	<1.5	<1.5	<1.4	<1.4	<1.5	<1.4	<1.3	<1.4	<1.4	<1.4
MISC ASB. & BK	Asbestos ID & Quantification (see Notes)	N/A	Asbestos Identification and Quantification	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	NADIS	CH	NADIS
	%age asbestos in sample	%	Asbestos Identification and Quantification	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	<0.001
	%age asbestos in fine fraction	%	Asbestos Identification and Quantification	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Asbestos Site Screen	N/A	Visual Site Screen	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO	NBFO
	TPH C8-C10	mg/kg	TPHFID	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	GRO C5-C10	mg/kg	TPHFID	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.45	0.28	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Japanese Knotweed	N/A	Visual Site Screen	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Olympic Park Site Investigation
Environmental Analysis - Leachate Samples
Tested by Scientifics Bretby

Where more than one result is available the worst case is reported

Location(s):

Report produced:

v3 01.14

	Hole Name			WF/SCRP/S01 /049	WF/SCRP/S01 /050	WF/SCRP/S01 /051	WF/SCRP/S01 /052	WF/SCRP/S01 /053	WF/SCRP/S01 /054	WF/SCRP/S01 /055	WF/SCRP/S01 /056	WF/SCRP/S01 /057	WF/SCRP/S01 /058	WF/SCRP/S01 /059	WF/SCRP/S01 /063	WF/SCRP/S01 /064	WF/SCRP/S01 /065	WF/SCRP/S01 /067	WF/SCRP/S01 /066	WF/SCRP/S01 /069	WF/SCRP/S01 /068	WF/SCRP/S01 /070	WF/SCRP/S01 /071	WF/SCRP/S01 /072	WF/SCRP/S01 /073
	Sample Material			Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)	Thanet Sand (Plug)
	Sample Location																								
	Sample Top	m		0 2	0.2	0.2	0 2	0.2	0.2	0 2	0.2	0.2	0 2	0.2	0.2	0 2	0.2	0.2	0 2	0.2	0.2	0 2	0.2	0.2	0 2
	Sample Batch Reference			COC 12218	COC 12218	COC 12218	COC 12218	COC 12218	COC 12218	COC 12218	COC 12241	COC 12241	COC 12241	COC 12241	COC 12265	COC 12265	COC 12265	COC 12265	COC 12265	COC 12265	COC 12265	COC 12305	COC 12305	COC 12305	COC 12305
	Sample Date			06/04/2011	06/04/2011	06/04/2011	06/04/2011	06/04/2011	06/04/2011	06/04/2011	14/04/2011	14/04/2011	14/04/2011	14/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	21/04/2011	11/05/2011	11/05/2011	11/05/2011	11/05/2011
Metals and Misc	pH units	N/A	Electrode	11.1	10.9	11.1	10.9	11.4	11	9 2	9	9.8	8 6	9.1	10 2	10.5	10 6	10 2	10.4	11.4	11 3	8 6	8.3	8.9	8 3
	Ammoniacal Nitrogen as N	mg/l	Kone	0 5	0 23	0.6	0.7	0.11	0.3	<0 01	0 02	0.3	0.03	<0.01	<0.01	0.06	0.7	0.18	1.1	0 04	0.16	0.23	0.2	0.3	0 5
	Total Sulphur as SO4 (Dissolved)	mg/l	Ion Chromatography	225	226	218	259	137	179	203	204	222	180	189	170	182	182	187	178	87	117	78	111	108	105
	Arsenic as As (Dissolved)	mg/l	ICPMS	0 004	0.005	0.005	0 006	0.004	0.002	0 006	0.029	0 02	0 007	0.011	0.01	0 008	0.008	0 011	0 012	0.004	0 006	0 004	0.003	0 006	0 003
	Boron as B (Dissolved)	mg/l	ICPOES	0.07	0.14	0.1	0.08	0.11	0.12	0.27	0.18	0.15	0.15	0.19	0.18	0.22	0.13	0.17	0.18	0 09	0.11	0.17	0.19	0.14	0.15
	Cadmium as Cd (Dissolved)	mg/l	ICPMS	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001
	Chromium as Cr (Dissolved)	mg/l	ICPMS	0 012	0.008	0 01	0.01	0.009	0.007	0 006	0.003	0.005	0 003	0.003	0 006	0 005	0.008	0 005	0 006	0.006	0.01	0 003	0.003	0 003	0 003
	Chromium VI	mg/l	Kone	0.01	<0 01	<0.01	<0 01	<0 01	<0.01	<0 01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01
	Copper as Cu (Dissolved)	mg/l	ICPMS	0 014	0.014	0.014	0 019	0.013	0.008	0 008	0.015	0.018	0 012	0.012	0 015	0 016	0.028	0 017	0 028	0.017	0 025	0 012	0.013	0 015	0.013
	Lead as Pb ¸Dissolved¸	mg/l	I_PM_	<.._.1	<.._.1	<._ _1	<.._.1	<.._.1	<._ _1	<.._.1	0.005	_.._2	_ ._4_	_.._2	<._ _1	<.._.1	<._ _1	<._ _1	<.._.1	<._ _1	<._ _1	_ _.2	_.._1	<.._.1	_ _.1
	Mercury as Hg (Dissolved)	mg/l	ICPMS	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	0.0002	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001
	Nickel as Ni (Dissolved)	mg/l	ICPMS	0 003	0.003	0.002	0 003	0.003	0.001	0 002	0.002	0.002	0 002	0.002	0 002	0 003	0.004	0 002	0 004	0.002	0 002	0 001	0.001	0 001	0.002
	Selenium as Se (Dissolved)	mg/l	ICPMS	0 004	0.006	0.004	0 005	0.004	0.003	0 006	0 03	0.022	0 012	0.017	0 007	0 006	0.008	0 006	0 007	0.006	0 008	0 003	0.002	0 004	0 003
	Zinc as Zn (Dissolved)	mg/l	ICPMS	0 016	0.016	0.013	0.01	0.019	0.007	0 002	0.018	0.011	0 028	0.015	0 012	0 006	0.013	0 005	0 009	0.025	0 015	0 046	0.044	0 008	0 058
	Cyanide (Free) as CN	mg/l	Distillation/colourimetry	<0 02	<0 02	<0.02	<0 02	<0 02	<0.02	<0 02	<0.02	<0.02	<0 02	<0.02	<0.02	<0 02	<0.02	<0.02	<0 02	<0.02	<0.02	<0 02	<0.02	<0.02	<0 02
	Cyanide (Total) as CN	mg/l	Distillation/colourimetry	0.37	0 08	0.41	0 6	0 05	0 27	<0 02	<0.02	<0.02	<0 02	<0.02	<0.02	<0 02	0 04	0.02	0.04	<0.02	<0.02	<0 02	<0.02	<0.02	<0 02
PAH	Acenaphthene	ug/l	GCMS	0.09	0.101	0.089	0 028	0.224	0.041	0 021	0.016	0.141	<0.010	<0 010	0.053	29.5	0.661	6.39	0.147	0.052	0.115	<0.010	<0 010	<0 010	<0.010
	Acenaphthylene	ug/l	GCMS	0.02	0 01	0.023	<0.010	0 02	0.012	<0.018	<0 010	0.025	<0.010	<0 010	<0 010	2.74	0.097	8.31	0 021	0.015	0 016	<0.010	<0 010	<0.010	<0.010
	Anthracene	ug/l	GCMS	0 029	0.027	0.012	<0.010	0.015	<0 010	<0.018	0.013	0.019	<0.010	<0 010	0 024	15.7	0.218	10 5	0 069	0.185	0 033	0 033	<0 010	0 011	0 011
	Benzo(a)anthracene	ug/l	GCMS	<0.010	<0.010	<0 010	<0.010	<0.010	<0 010	<0.018	<0 010	<0 010	<0.010	<0 010	<0 010	4.12	0.063	1.41	0 026	0.026	<0 010	0.03	<0 010	<0.010	<0.010
	Benzo(a)pyrene	ug/l	GCMS	<0.010	<0.010	<0 010	<0.010	<0.010	<0 010	<0.018	<0 010	<0 010	<0.010	<0 010	<0 010	2.55	0.029	0.785	<0.010	<0 010	<0 010	<0.010	<0 010	<0.010	<0.010
	Benzo(b)fluoranthene	ug/l	GCMS	<0.010	<0.010	<0 010	<0.010	<0.010	<0 010	<0.018	<0 010	<0 010	<0.010	<0 010	<0 010	1.95	0.028	0 653	<0.010	<0 010	<0 010	<0.010	<0 010	<0.010	<0.010
	Benzo(g,h,i)perylene	ug/l	GCMS	<0.010	<0.010	<0 010	<0.010	<0.010	<0 010	<0.018	<0 010	<0 010	<0.010	<0 010	<0 010	0 833	0.011	0 358	<0.010	<0 010	<0 010	<0.010	<0 010	<0.010	<0.010
	Benzo(k)fluoranthene	ug/l	GCMS	<0.010	<0.010	<0 010	<0.010	<0.010	<0 010	<0.018	<0.010	<0 010	<0.010	<0 010	<0 010	0 696	<0 010	0 236	<0.010	<0 010	<0 010	<0.010	<0 010	<0 010	<0.010
	Chrysene	ug/l	GCMS	<0.010	<0.010	<0 010	<0.010	<0.010	<0 010	<0.018	<0 010	<0 010	<0.010	<0 010	<0 010	3 3	0.041	1.19	0 014	0.014	<0 010	0 019	<0 010	<0.010	<0.010
	Dibenzo(a,h)anthracene	ug/l	GCMS	<0.010	<0.010	<0 010	<0.010	<0.010	<0 010	<0.018	<0 010	<0 010	<0.010	<0 010	<0 010	0 249	<0 010	0.07	<0.010	<0 010	<0 010	<0.010	<0 010	<0 010	<0.010
	Fluoranthene	ug/l	GCMS	0 007	0.022	0 03	0 012	<0.010	<0 010	0 038	0.022	0.025	<0.010	0.012	0 022	11.5	0.163	6.9	0 081	0.138	0 054	0.118	0.029	0 022	0 025
	Fluorene	ug/l	GCMS	0.03	0.036	0.019	<0.010	0.029	0.011	<0.018	<0 010	<0 010	<0.010	<0 010	0 015	23.3	0.382	15	0 052	0.047	0 033	0 017	<0 010	<0.010	<0.010
	Indeno(1,2,3-cd)pyrene	ug/l	GCMS	<0.010	<0.010	<0 010	<0.010	<0.010	<0 010	<0.018	<0 010	<0 010	<0.010	<0 010	<0 010	0 966	<0 010	0 389	<0.010	<0 010	<0 010	<0.010	<0 010	<0 010	<0.010
	Naphthalene	ug/l	GCMS	<0.010	0.049	<0 010	<0.010	0.087	0.033	0 042	<0 010	<0 010	<0.010	0.017	0 011	3.93	0.059	<0 010	0 035	0.239	0.107	0 069	0.043	0.05	0 052
	Phenanthrene	ug/l	GCMS	0 037	0.074	0.032	<0.010	0.029	0 02	0 024	0.016	<0 010	<0.010	<0 010	<0 010	53.9	0.741	15 6	0.154	0.587	0 086	0.08	0.014	0 013	<0.010
	Pyrene	ug/l	GCMS	0 006	0.017	0.022	0 013	<0.010	<0 010	0 029	0.025	0.046	<0.010	0.012	0 045	15.8	0.219	8.46	0 096	0.159	0 052	0.112	0.031	0 021	0 022
	Total PAHs (USEPA 16)	ug/l	GCMS	<0.309	<0.416	<0 317	<0.183	<0.504	<0 227	<0.352	<0 202	<0 366	<0.160	<0.171	<0 270	171 034	<2.742	<76.261	<0.755	<1 522	<0 576	<0.558	<0 237	<0 227	<0.230
PHENOLS	Cresols	mg/l	PHEHPLC	<0 0005	<0.0005	<0.0005	0.0019	0 0007	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	0 0067	<0.0005	0.0036	<0.0005	<0 0005	<0 0005	<0.0005	<0.0005	<0 0005
	Dimethylphenols	mg/l	PHEHPLC	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0 0005	<0 0005	<0.0005	<0.0005	<0 0005
	Phenol	mg/l	PHEHPLC	0.0006	<0.0005	0.0005	0.0009	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	0.0032	<0 0005	0 0007	0.0009	<0 0005	<0.0005	<0.0005	<0 0005
	Trimethylphenols	mg/l	PHEHPLC	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0 0005	<0.0005	<0 0005	<0 0005	<0.0005	<0.0005	<0 0005

G. Site Specific Assessment Criteria (SSAC)

PDZ15: Site Specific Assessment Criteria - Combined

CONTAMINANT			Human Health [Soft landscaping]*			Controlled Waters**						Notes
			Soil			Soil			Leachate			
			AML	BML	Units	Separation Layer	General Fill	Units	Separation Layer / General Fill	Units		
Arsenic			9.72E+01	-	mg/kg	-	-	mg/kg	3.00E-02	mg/l		
Cadmium			1.72E+02	-	mg/kg	-	-	mg/kg	1.00E-02	mg/l		
Chromium (VI)			3.44E+02	-	mg/kg	-	-	mg/kg	1.20E-01	mg/l		
Copper			-	-	mg/kg	-	-	mg/kg	6.80E+00	mg/l		
Lead			6.16E+02	-	mg/kg	-	-	mg/kg	9.00E-02	mg/l		
Mercury			4.29E+01	-	mg/kg	-	-	mg/kg	2.00E-03	mg/l		
Nickel			6.18E+02	-	mg/kg	-	-	mg/kg	7.00E-02	mg/l		
Selenium			6.73E+02	-	mg/kg	-	-	mg/kg	3.00E-02	mg/l		
Zinc			-	-	mg/kg	-	-	mg/kg	1.70E+01	mg/l		
TPH - Aliphatics >C05-C06			6.71E+05	-	mg/kg	-	3.70E+01	mg/kg	-	mg/l		
TPH - Aliphatics >C06-C08			6.71E+05	-	mg/kg	-	1.28E+02	mg/kg	-	mg/l		
TPH - Aliphatics >C08-C10			1.34E+04	-	mg/kg	-	7.90E+01	mg/kg	-	mg/l		
TPH - Aliphatics >C10-C12			1.34E+04	-	mg/kg	-	5.00E+01	mg/kg	-	mg/l		
TPH - Aliphatics >C12-C16			1.34E+04	-	mg/kg	2 91E+02	2.91E+02	mg/kg	-	mg/l		
TPH - Aliphatics >C16-C21			2.69E+05	-	mg/kg	-	-	mg/kg	8.80E-01	mg/l		
TPH - Aliphatics >C21-C35			2.69E+05	-	mg/kg	-	-	mg/kg	8.80E-01	mg/l		
TPH - Aromatics >C05-C07			1.56E+02	1 86E+02	mg/kg	-	-	mg/kg	-	mg/l		
TPH - Aromatics >C07-C08			3.91E+02	4 67E+02	mg/kg	-	-	mg/kg	-	mg/l		
TPH - Aromatics >C08-C10			7.39E+02	8 82E+02	mg/kg	-	-	mg/kg	-	mg/l		
Benzene			2.24E+00	2.73E+00	mg/kg	-	6.60E-01	mg/kg	-	mg/l		
Ethylbenzene			2.59E+04	-	mg/kg	-	4.57E+02	mg/kg	-	mg/l		
Toluene			4.18E+02	5 20E+02	mg/kg	-	-	mg/kg	-	mg/l		
Xylene (mixed isomers)			7.95E+02	-	mg/kg	-	-	mg/kg	-	mg/l		
Phenol			1.16E+05	-	mg/kg	-	-	mg/kg	8.40E+04	mg/l		
Acenaphthene			7.24E+03	-	mg/kg	-	-	mg/kg	3.80E+00	mg/l		
Acenaphthylene			7.27E+03	-	mg/kg	-	-	mg/kg	1.61E+01	mg/l		
Anthracene			3.67E+04	-	mg/kg	-	-	mg/kg	2.00E-02	mg/l		
Benzo(a)Anthracene			1.97E+01	-	mg/kg	-	-	mg/kg	1.00E-02	mg/l		
Benzo(a)Pyrene			3.38E+00	-	mg/kg	-	-	mg/kg	1.00E-03	mg/l		
Benzo(b)Fluoranthene			2.34E+01	-	mg/kg	-	-	mg/kg	2.00E-03	mg/l		
Benzo(g,h,i)Perylene			3.69E+03	-	mg/kg	-	-	mg/kg	6.20E+00	mg/l		
Benzo(k)Fluoranthene			3.44E+01	-	mg/kg	-	-	mg/kg	5.00E-03	mg/l		
Chrysene			2.95E+01	-	mg/kg	-	-	mg/kg	1.70E-01	mg/l		
Dibenzo(a,h)Anthracene			3.53E+00	-	mg/kg	-	-	mg/kg	1.00E-04	mg/l		
Fluoranthene			4.91E+03	-	mg/kg	-	-	mg/kg	3.00E-02	mg/l		
Fluorene			4.86E+03	-	mg/kg	-	-	mg/kg	1.90E+00	mg/l		
Indeno(1,2,3,c,d)Pyrene			1.39E+01	-	mg/kg	-	-	mg/kg	2.02E+00	mg/l		
Naphthalene			3.84E+03	-	mg/kg	-	-	mg/kg	-	mg/l		
Phenanthrene			3.67E+03	-	mg/kg	-	-	mg/kg	1.10E+00	mg/l		
Pyrene			3.68E+03	-	mg/kg	-	-	mg/kg	8.00E-03	mg/l		
Cyanide (Free)			1.70E+01	1.70E+01	mg/kg	-	-	mg/kg	1.20E-01	mg/l		1
Ammoniacal Nitrogen			-	-	mg/kg	-	-	mg/kg	2.70E+02	mg/l		
Sulphate			-	-	mg/kg	-	-	mg/kg	8.52E+02	mg/l		
Asbestos	0. - 0.15m		0.001	0.100	% w/w	-	-	% w/w	-	% w/w		2
	0.15 - 0.6m	Mean	0.005	-		-	-		-			

NOTES

Based upon Capita Position Statement where the SSAC are taken from:
Human health - * CZ6c (MOL) SSRS Addendum No.1 [0241-ENW-NPK-CM-REP-0001]
Controlled Waters (Dry Zone) - ** CZ7a SSRS vers 5.1, Oct 2007 (REP-WYG-CM-CZ7a-XXX-XXX-E-4001); and, WYG 'Addendum 1 to the SSRS' April 2009 (DCR-WYG-CM-CZ7a-XXX-XXX-E-4003).

1. Cyanide SSAC based on GAC from Capita Symonds GRS V2.0 RevB.
2. Reference made to the Maintenance of Final Build Layer and Topsoil (Asbestos in Soils) Management Plan, ODA Ref. REP-ATK-CM-ZZZ-OLP-XXX-E-0008, Rev 4 August 2010
'-' contaminant and / or pathway not applicable.
Exclusion of exotic compounds as per PMI-ATK-PM-04Z-ZZZ-ZZZ-E-0439.
TPH and PAH based on FOC of 0.01 i..e. 1% TOC.
MRL - Where SSAC are above the laboratory limits of detection (LOD) then the LOD shall be utilised as SSAC for assessment purposes [PMI-ATK-PM-ZZZ-ZZZ-ZZZ-E-2844 and PMI-ATK-PM-ZZZ-ZZZ-ZZZ-E-2678].

H. Proposed Import of Fill Materials

PROPOSED IMPORT OF FILL MATERIALS

H1.1 Wherever suitable material is available, and in accordance with the sustainable approach outlined in the Code of Construction Practice[3], Nuttall aim to place fill comprising recycled material from within the QEOP. However, due to shortfalls in supply of certain suitable recycled site-won materials, Nuttall are required to import suitable material to the QEOP to complete the Transformation scope of works. This submission is made to the PDT to seek approval for the import of all such materials described within Table H1.1 overleaf.

H1.2 The sources of material proposed for import are consistent with those approved for placement during previous Olympic Park projects. A supporting assessment is attached for the British Sugar topsoil proposed for placement in PDZ15 [East Marsh Playing Fields], given that this material has not previously been assessed for placement in PDZ15 for the Legacy land use. The assessment demonstrates compliance with the applicable SSAC, which were outlined and reproduced in Appendix G of this document.

H1.3 It is noted that in addition to the sampling and testing outlined in Table H1.1, Nuttall will undertake a visual inspection of all loads entering the QEOP to assess whether the material is consistent with the stated source. Any loads assessed to be inconsistent with the source, or contain potential contamination will be denied entry to the site and returned to the supplier.

[3] Code of Construction Practice for the Queen Elizabeth Olympic Park [Transformation] (ref. LC001-LTR-APK-K-GUI-0001 Rev P02).

TABLE H1.1: SUMMARY OF PROPOSED FILL MATERIALS TO BE IMPORTED TO PDZ15.

MATERIAL SOURCE	*MATERIAL TYPE*	*MATERIAL CATEGORY IN ACCORDANCE WITH TABLE 1 OF FRAMEWORK LETTER*	*QUANTITY* (m^3)	*SUPPLIER(S)*	*TIMING OF IMPORT*	*MAIN REASON FOR IMPORT*	*FUTURE TESTING*	*TEST RESULTS*
British Sugar Co-Products, Bury St. Edmunds	Horticultural Topsoil	3	30,000	British Sugar	Nov 2012 to Dec 2013	To provide suitable topsoil to meet the chemical and horticultural specification	Ongoing In Situ Testing at one sample per 1,000m^3 plus process and delivery audits	See previous, approved Olympic Park Submissions (Refer to Note A). Refer to Attachment 1) for further assessment applicable to PDZ15 [East Marsh Playing Fields].
Woodland Horticulture, Sharpen Lane, Waltham Street, Somerset	Sowing Mulch	NA	1,500	Woodland Horticulture	Nov 2012 to Dec 2013	To provide suitable mulch to meet the chemical and horticultural specification	None proposed	See previous, approved Olympic Park Submissions (Refer to Note B)
Woodland Horticulture, Sharpen Lane, Waltham Street, Somerset	Bark Mulch	NA	1,500	Woodland Horticulture	Nov 2012 to Dec 2013	To provide suitable mulch to meet the chemical and horticultural specification	None proposed	See previous, approved Olympic Park Submissions (Refer to Note B)

NOTES:

A) Details relating to import of this material type and source have been covered by the following previous approved, submission to the PDT:
- Landscaping and Public Realm (LPR) for Planning Delivery Zones 5, 6 and 7 Remediation Method Statement Addendum, February 2011, 7160-LPR-NPK-W-REP-0274 (Decision Notice References: 11/90160/AODODA, 11/90161/AODODA, 11/90162/AODODA, 11/90163/AODODA, 11/90164/AODODA, 11/90165/AODODA, 11/90166/AODODA, 11/90167/AODODA. Approval Date: 14 November 2011)
- Letter to ODA PDT from Aecom on behalf of CLM for North Park LPR titled Quality of Imported Fill – Olympic North Park, Landscape and Public Realm Project, dated 25 January 2011 (Decision Notice References:10/90108/AODODA, 10/90110/AODODA, 10/90114/AODODA, 10/90115/AODODA, 10/90117/AODODA, 10/90118/AODODA)

Since the source and location of placement in consistent with these applications, supporting information has not been reproduced for this submission.

B) Details relating to import of this material type and source have been covered by the following previous approved, submission to the PDT:
- Landscaping and Public Realm, Validation Report for CZ5 Wetlands and Soft Landscaping Including Import of Fill Information, 7160-LPR-NPK-W-REP-0263 (Decision Notice Ref. 11/90773/AODODA, Approval Date: 26 July 2012)
- Landscaping and Public Realm, Validation Report for CZ6 Wetlands and Soft Landscaping Including Import of Fill Information, 7160-LPR-NPK-W-REP-0264 (Decision Notice Ref. 11/90678/AODODA, Approval Date: 27 July 2012)

Since the source in consistent with these applications, supporting information has not been reproduced for this submission.

ATTACHMENT H1: ASSESSMENT OF BRITISH SUGAR TOPSOIL FOR PLACEMENT IN PDZ15

Contaminant	Unit	SSAC APPLICABLE TO PDZ15				British Sugar Sample
		6c Human Health Separation Layer	**7a Wet/Dry (AML) Controlled Waters**	**7a Dry (AML) Controlled Waters**	*Minimum Criteria Value*	
		CZ6c (MOL) SSRS Addendum No.1 [0241-ENW-NPK-CM-REP-0001]	CZ7a SSRS Addendum No. 1 (DCR-WYG-CM-C7a-XXX-XXX-E-4003, Table 2)	CZ7a SSRS Addendum No. 1 (DCR-WYG-CM-C7a-XXX-XXX-E-4003, Table 2)		(N06c-FVP059-079239)
Chromium VI	mg/kg	344	130	130	*130*	23.5
Arsenic (MS)	mg/kg	97.2	20	20	*20*	16.6
Cadmium (MS)	mg/kg	172	1	1	*1*	0.57
Chromium (MS)	mg/kg	344	130	130	*130*	23.5
Copper (MS)	mg/kg	1000000	135	135	*135*	27.9
Lead (MS)	mg/kg	616	450	450	*450*	83.2
Mercury (MS)	mg/kg	42.9	8	8	*8*	0.5
Nickel (MS)	mg/kg	618	50	50	*50*	19.3
Selenium (MS)	mg/kg	673	35	35	*35*	0.8
Zinc (MS)	mg/kg	1000000	200	200	*200*	91.8
Cyanide (Free)	mg/kg	17	36	36	*17*	0.6
Aliphatics >C5 C6	mg/kg	671000	14	14	*14*	0.3
Aliphatics >C6 C8	mg/kg	671000	35	35	*35*	0.3
Aliphatics >C8 C10	mg/kg	13400	8.2	8.2	*8.2*	5
Aliphatics >C10 C12	mg/kg	13400	42	42	*42*	5
Aliphatics >C12 C16	mg/kg	13400	430	291	*291*	5
Aliphatics >C16 C21	mg/kg	269000	50000	50000	*50000*	13
Aliphatics >C21 C35	mg/kg	269000	50000	50000	*50000*	71.3
Aromatics >C5 C7	mg/kg	156	0.05	0.05	*0.05*	0.01
Aromatics >C7 C8	mg/kg	391	7	7	*7*	0.01
Aromatics >C8 C10	mg/kg	739	13	13	*13*	5
Aromatics >C10 C12	mg/kg	5320	72	72	*72*	5
Aromatics >C12 C16	mg/kg	5160	330	330	*330*	5
Aromatics >C16 C21	mg/kg	4030	1978	1978	*1978*	5.71
Aromatics >C21 C35	mg/kg	4030	1978	1978	*1978*	63
Acenaphthene	mg/kg	7240	12	12	*12*	0.1
Acenaphthylene	mg/kg	7270	1	1	*1*	0.1
Anthracene	mg/kg	36700	2800	2800	*2800*	0.1
Benzo(a)anthracene	mg/kg	19.7	7.2	7.2	*7.2*	0.3
Benzo(a)pyrene	mg/kg	3.38	1.3	1.3	*1.3*	0.27
Benzo(b)fluoranthene	mg/kg	23.4	16	16	*16*	0.37
Benzo(g,h,i)perylene	mg/kg	3690	1970	1970	*1970*	0.23
Benzo(k)fluoranthene	mg/kg	34.4	16	16	*16*	0.11
Chrysene	mg/kg	29.5	32	32	*29.5*	0.3
Dibenzo(a,h)anthracene	mg/kg	3.53	1.3	1.3	*1.3*	0.1
Fluoranthene	mg/kg	4910	95	95	*95*	0.49
Fluorene	mg/kg	4860	2600	2600	*2600*	0.1
Indeno(1,2,3 cd)pyrene	mg/kg	13.9	16	16	*13.9*	0.23
Naphthalene	mg/kg	3840	5.6	5.6	*5.6*	0.1
Phenanthrene	mg/kg	3670	1970	1970	*1970*	0.18
Pyrene	mg/kg	3680	1500	1500	*1500*	0.45
Benzene	ug/kg	2240	50	50	*50*	6
Carbon Tetrachloride	ug/kg	251000	2100	2100	*2100*	6
Chloroform	ug/kg	1000000	90	90	*90*	6
1,2 Dichloroethane	ug/kg	648	10	10	*10*	6
Ethylbenzene	ug/kg	25900000	21000	21000	*21000*	6
Naphthalene	ug/kg	1000000	5600	5600	*5600*	32
1,1,1,2 Tetrachloroethane	ug/kg	144000	6600	6600	*6600*	6
1,1,2,2 Tetrachloroethane	ug/kg	338000	6600	6600	*6600*	6
Tetrachloroethene	ug/kg	178000	1500	1500	*1500*	32
Toluene	ug/kg	418000	7000	7000	*7000*	6
1,1,1 Trichloroethane	ug/kg	827000	15000	15000	*15000*	6
Trichloroethene	ug/kg	14700	170	170	*170*	6
Vinyl Chloride (LOW)	ug/kg	68.9	2	2	*2*	1.3
m and p Xylene	ug/kg	795000	9800	9800	*9800*	6
o Xylene	ug/kg	795000	9800	9800	*9800*	6
Xylenes	ug/kg	795000	9800	9800	*9800*	6
Total Phenols	mg/kg	1000000	50000	50000	*50000*	
%age asbestos in sample	%	0.001	0.001	0.001	*0.001*	0.001

Note: The above results were presented within the Import of Fill Submission Application Number 10/90090/AODODA. The results have been reproduced within this submittal in order to assess the suitability of the material usage within PDZ15.

Contaminant	Unit	SSAC APPLICABLE TO PDZ15			British Sugar Sample
		7a Wet/Dry Leachate Controlled Waters	7a Dry Leachate Controlled Waters	Minimum Criteria Value	
		CZ7a SSRS Addendum No. 1 (DCR-WYG-CM-C7a-XXX-XXX-E-4003, Table 3)	CZ7a SSRS Addendum No. 1 (DCR-WYG-CM-C7a-XXX-XXX-E-4003, Table 3)		(N06c-FVP059-079239)
Ammoniacal Nitrogen as N	mg/l	270	270	270	0.12
Total Sulphur as SO4 (Dissolved)	mg/l	1620	852	852	84
Arsenic as As (Dissolved)	mg/l	0.06	0.03	0 03	0 005
Boron as B (Dissolved)	mg/l	1000000	1000000	1000000	0.48
Cadmium as Cd (Dissolved)	mg/l	0.02	0.01	0 01	0 003
Chromium as Cr (Dissolved)	mg/l	0.22	0.12	0.12	0 004
Chromium VI	mg/l	0.22	0.12	0.12	0 004
Copper as Cu (Dissolved)	mg/l	13	6.8	6.8	0 037
Lead as Pb (Dissolved)	mg/l	0.16	0.09	0 09	0 003
Mercury as Hg (Dissolved)	mg/l	0.003	0 002	0 002	0 0001
Nickel as Ni (Dissolved)	mg/l	0.09	0.07	0 07	0 012
Selenium as Se (Dissolved)	mg/l	0.06	0.03	0 03	0 001
Zinc as Zn (Dissolved)	mg/l	33	17	17	0 242
Cyanide (Free) as CN	mg/l	0.22	0.12	0.12	0.02
Cyanide (Total) as CN	mg/l	0.22	0.12	0.12	0.02
Acenaphthene	ug/l	3800	3800	3800	0 012
Acenaphthylene	ug/l	16100	16100	16100	0.01
An hracene	ug/l	20	20	20	0.01
Benzo(a)anthracene	ug/l	10	10	10	0 024
Benzo(a)pyrene	ug/l	1	1	1	0.01
Benzo(b)fluoranthene	ug/l	2	2	2	0 013
Benzo(g,h,i)perylene	ug/l	10	6200	10	0 018
Benzo(k)fluoranthene	ug/l	1	5	1	0.01
Chrysene	ug/l	3	170	3	0 011
Dibenzo(a,h)anthracene	ug/l	0.1	0.1	0.1	0 012
Fluoranthene	ug/l	30	30	30	0 028
Fluorene	ug/l	1900	1900	1900	0 027
Indeno(1,2,3-cd)pyrene	ug/l	4	2020	4	0 013
Naph halene	ug/l	1000000	1000000	1000000	0 054
Phenanthrene	ug/l	1100	1100	1100	0.181
Pyrene	ug/l	1.5	8	1.5	0 048

Note: The above results were presented within the Import of Fill Submission Applica ion Number 10/90090/AODODA. The results have been reproduced within this submittal in order to assess he suitability of the material usage within PDZ15.

I. Sampling Protocols and Laboratory Testing Requirements

SAMPLING PROTOCOLS AND LABORATORY TESTING REQUIREMENTS

I1 GENERAL PROCEDURES

I1.1 Laboratory testing will be undertaken at an approved UKAS accredited laboratory. The status of the laboratory with respect to MCERTS will be determined and it will be a requirement that testing of samples is compat ble with MCERTS requirements, meeting the regulatory requirements of reporting expected under MCERTS.

I1.2 All chemical laboratory data shall be presented both in unformatted, tabulated MS excel format and If requested in AGS format.

I2 COLLECTION OF SAMPLES AND SAMPLE PRESERVATION

I2.1 Collection of samples shall be performed in accordance with British Standards BS 5930:1999 'Code of practice for site investigations' and BS 10175:2011 'Investigation of potentially contaminated sites – Code of practice' and the Environment Agency Technical Report P5-065/TR 'Technical aspects of site investigation'.

I2.2 Sampling will be undertaken using best practice sampling methodologies (e.g. regular cleaning of equipment), tools, sample containers and by maintaining accurate records and labelling formats, i.e. dates, unique sample referencing (as outlined above), locations, depths etc. Chemical testing will be scheduled on project specific Chain of Custody (CoC) forms that are dispatched electronically to the designated laboratory.

SOIL

I2.3 Soil samples will be collected and stored in environmentally controlled conditions (i.e. cool boxes with ice packs) and transferred to a refrigerator on site at the earliest opportunity until dispatch to the designated laboratory in cool boxes with ice packs. Samples shall not be stored on site for more than 48 hours.

I2.4 As a minimum equipment required will include:

- Stainless steel spade and trowel (to be cleaned prior to the start of sample collection).
- Disposable nitrile gloves (fresh nitrile gloves are to be used for each sample).
- Suitable means for decontaminating sampling equipment between stockpiles including suitable laboratory grade detergent solutions (Decon Acid Rinse, Decon NeutraCon or Decon 90 as appropriate)

WATER [IF REQUIRED]

I2.5 If specifically required during the works, groundwater samples will be collected and stored in environmentally controlled conditions (i.e. cool box with ice packs) and transferred to a refrigerator on site at the earliest opportunity until dispatch to the designated laboratory in cool boxes with ice packs. Samples shall not be stored on site for more than 24 hours.

I2.6 Sample containers and preservation requirements are summarised in Table I2.6 below::

TABLE I2.6 SAMPLE CONTAINERS

Parameter	*Container*	*Preservation*
SOILS		
General	Snap-lid plastic tub	None
PAH/elemental sulphur	Amber glass jar	None
PCBs	Amber glass jar	None
Petroleum Hydrocarbons	Amber glass jar	None
VOCs	2 x 40ml glass vials	None
Phenols	Wide-necked glass jar	None
WATERS		
Inorganics-general	500 ml glass bottle	None
Cyanide	250 ml glass bottle	None
Ammonia	250 ml glass bottle	None

Parameter	*Container*	*Preservation*
Metals	250 ml polythene bottle	None
Total suspended solids	Wide-necked glass bottle	None
TOC	1-2 litre glass bottle	None
Organics – general	1-2 litre glass bottle	None
PCBs	1-2 litre glass bottle	None
Petroleum Hydrocarbons	1-2 litre amber glass bottle	None
VOCs	2 x 40 ml glass vials	None
PAH	1-2 litre amber glass bottle	None
Notes. Samples shall be kept below 4ºC while stored on site, and during transfer to the laboratory. If LNAPL is encountered, the sample bottles must not be filled to the top so as to prevent losses due to overflow of the bottle. If necessary a separate, zero headspace, sample should also be taken.		

I3 SAMPLING STRATEGY

STOCKPILES

I3.1 The following procedure for stockpile sampling assumes that stockpiled materials have been subject to source segregation, either by design or by site management processes, such that physically and/or chemically different materials are excavated and stockpiled separately and that stockpiles are as homogeneous as practically poss ble. This procedure is suitable both for material to be characterised prior to disposal, and for material to be tested prior to reuse on site, where existing data for the material are not readily available.

I3.2 The methodology for stockpile sampling set out below is based on a maximum stockpile size of 500m^3. If, for any reason, this size limit is increased then the number of test samples required to provide a representative sample shall be increased accordingly.

I3.3 Each 500m^3 stockpile will, for the purposes of sampling, be divided into 4No. sections of approximately equal volume. Sub-samples of approximately 2kg of material are to be collected from each section of the stockpile as follows:

- The upper 0.3m of material is to be removed and placed to one side.
- A 2kg sub-sample is then collected using a clean stainless steel trowel.
- A further 0.5m depth of material from the same location is removed and placed to one side.
- A second 2kg sub-sample is then collected using the same stainless steel trowel.

I3.4 Once all 8No. sub-samples have been obtained they shall be mixed using a clean stainless steel trowel. until such an approximately homogenous mix has been obtained. Upon completion of the homogenisation process the sample is to be placed into the appropriate sample containers and sent for laboratory analysis. Residual material is to be returned to the stockpile of origin.

I3.5 If samples are required for the analysis of volatile components (BTEX) then the above sub-sampling technique is not appropriate. As a minimum, the methodology for volatiles sampling from stockpiled material will comprise the following:

- At the time of collecting each sub-sample vis ble and olfactory evidence of contamination at each location shall be noted.
- Prior to the bulk mixing of sub-samples, material from the sub-sample representative of the stockpiled material shall be selected for volatiles sampling, comprising a sample from within the undisturbed mass of the selected sub-sample. Material from the outer surfaces of the sub-sample should be avoided as potentially volatile components may have already been lost.
- The sample is placed into the appropriate sample containers and sent for laboratory analysis.

EXCAVATIONS

I3.6 The basal sampling density of each validation area will be 1No. soil sample per 625m^2 of cut surface (i.e. 25x25m grid) in areas that have not previously been subject to validation.

I3.7 Each individual validation area is to be divided into 4No. quadrants. One basal sub-sample of approximately 2kg of material is to be collected from each quadrant of the validation area from 0.2-0.3m beneath the excavation surface to avoid cross contamination with surface trafficked deposits.

I3.8 Once all 4No. sub-samples have been obtained they should be mixed using a clean stainless steel hand trowel until a homogenous mix has been obtained. Upon completion of the homogenisation process the samples are to be placed into the appropriate sample containers and sent for laboratory analysis.

I3.9 If samples are required for the analysis of volatile components (BTEX) then the above sub-sampling technique is not appropriate. As a minimum, the methodology for volatiles sampling will comprise the following:

- At the time of collecting each sub-sample vis ble and olfactory evidence of contamination at each location shall be noted.
- Prior to the bulk mixing of sub-samples, material from the sub-sample representative of the material shall be selected for volatiles sampling, comprising a sample from within the undisturbed mass of the selected sub-sample. Material from the outer surfaces of the sub-sample should be avoided as potentially volatile components may have already been lost.
- The sample is placed into the appropriate sample containers and sent for laboratory analysis.

I3.10 If any discoloration, odour and other feature that indicates potential for significant contamination remaining below the excavated floor is noted, then an additional sample of soil will be obtained from 500mm below base and the above procedure followed.

I4 GROUNDWATER MONITORING REQUIREMENTS [IF REQUIRED]

I4.1 It is required that water level measurements of all boreholes/window samples and groundwater sampling locations are recorded using an approved interface probe.

I4.2 The following groundwater field parameters should be measured:

- dissolved oxygen;
- redox potential;
- pH;
- electrical conductivity; and,
- temperature.

I4.3 Ground water levels must be recorded at every location before sampling, including the presence and thickness of separate phase product i.e. petroleum hydrocarbons. Should separate phase product be detected a sample must be collected a submitted for appropriate GC-MS identification analysis.

I4.4 Immediately prior to collecting the groundwater sample the bore must be purged. Three to five well volumes will be removed prior to collecting a sample during the first round of sampling using the computation shown below.

One Bore Volume = casing volume + saturated filter pack volume
$= \pi h_1(d_1/2)^2 + n(\pi h_2(d_2/2)^2 - \pi h_2(d_1/2)^2)$

Where:
$\pi = 3.14$
n = porosity (0.3 for most filter pack material)
h_1 = height of water column from well base
d_1= diameter of well pipe
h_2 = height of saturated filter pack from well base
d_2 = diameter of filter pack annulus

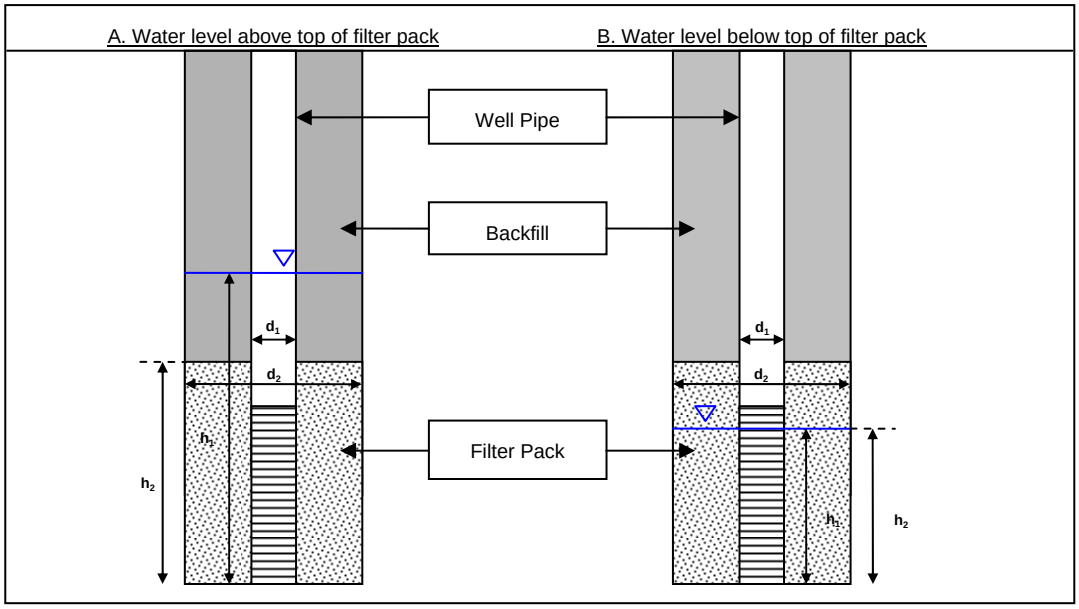
I4.5 If the well has a low recharge rate and three well volume removal is impractical, then it must be pumped/bailed dry (it is considered dry recharging at a rate < 2 l/min) and sampled when it recharges.

I4.6 Wastewater or separate phase products must not be allowed to enter surface watercourses and adjacent wells.

I4.7 Wastewater bailed/pumped from the wells during sampling must be collected in appropriate storage containers on-site and removed for disposal at a licensed facility or to sewer following obtainment of a suitable trade waste licence/agreement/consent with the relevant Authority. The Authority may require periodical testing of water prior to discharge.

I4.8 Liquid waste (eg. LNAPL or wastewater with concentrations exceeding licence consent conditions) will be disposed to a liquid waste management facility under the appropriate waste management protocols.

FIGURE I1: SCHEMATIC FOR CALCULATION OF WELL AND FILTER PACK VOLUMES.



I5 LABORATORY TESTING REQUIREMENTS

I5.1 The laboratory limits of detection (LOD) shall be no higher than the minimum assessment criteria (unless where specified).

I5.2 Leachate analyses for the purpose of landfill waste acceptance criteria (WAC) testing will be undertaken in accordance with British Standard BS EN 12457(37).

I6 QUALITY ASSURANCE AND QUALITY CONTROL

I6.1 The laboratory testing will be undertaken at an approved UKAS accredited laboratory. The status of the laboratory with respect to MCERTS will also be determined and it will be a requirement that testing of samples is compatible with MCERTS requirements that meet the regulatory requirements of reporting expected under MCERTS where applicable.

I7 FIELD SCREENING

I7.1 Unless significant contamination is encountered, on-site testing is expected to be limited to field screening of soils using photo-ionisation detectors (PID).

All samples will be screened not less than 30mins and within 2hrs of sampling using a photo-ionisation detector (PID) instrument for the presence of volatile headspace. Screening will include half filling a plastic snap lock sandwich bag, marking the bag with the sample identification, screening the sample using a PID by inserting the opening of the PID tubing through the plastic bag membrane. All care must be undertaken to ensure the PID does not suck in dirt or water particles. This will be prevented by the use of an appropriate filter in the PID inflow tubing and by making sure the PID tubing opening is kept well away from any dirt or moisture on the snap lock bag membrane.

The PID lamp must have a minimum voltage of 10.2 eV.

Daily records of calibration of the PID instrument using isobutylene calibration gas must also be undertaken.

J. Schedule of Permits, Licences and Consents

BAM Nuttall management system

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Wildlife (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Cutting, topping or uprooting protected trees	Prior consent	Town and Country Planning Act 1990 (Tree preservation order)	Local Authority Planning Department	• Description of the works • Trees to be affected • Location plan	Allow up to 8 weeks	• No charge
Works affecting hedgerows	Prior consent	Hedgerow Regulations 1997	Local Authority Planning Department	• Description of the works • Hedgerow to be affected • Location plan	Allow up to 6 weeks	• No charge
Works affecting designated areas i.e. SSSIs, AONB	Prior consent	Wildlife and Countryside Act 1981 Habitat Regulations 1994 as amended Countryside and Rights of Way Act 200	Natural England Countryside Council for Wales	Generally covered by planning permissions if applicable however if works are likely to take place within a designated area such as a SSSI or AONB contact Natural England or Countryside Council for Wales prior to works commencing to identify consents requirements.		
Work in the vicinity of badger setts (generally within 30m or less).	Licence	Protection of Badgers Act 1981	Natural England Countryside Council for Wales	• Description of the works • Location plan • Method statement identifying mitigation measures	Natural England - allow 15 working days Countryside Council for Wales – allow 30 working days	• No charge

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Wildlife (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Closure and translocation of badger setts	Development licence	Protection of Badgers Act 1981	Natural England National Assembly for Wales	• Description of the works • Location plan • Planning permissions • Method statement to protect wildlife • Local planning authority statement • Legal statement identifying reason for the works • Surveys	Natural England – allow 30 working days National Assembly for Wales – allow 1 – 3 months may be longer for more complex projects	• No charges
Work affecting protected species (bats, great crested newts, dormice, otters, natter jack toads, etc.)	Development licence	Wildlife and Countryside Act 1981 Habitat Regulations 1994 as amended	Natural England Countryside Council for Wales National Assembly for Wales	• Description of the works • Location plan • Planning permissions • Method statement to protect wildlife • Local planning authority statement • Legal statement identifying reason for the works • Surveys	Natural England – allow 30 working days National Assembly for Wales – allow 1 – 3 months may be longer for more complex projects	• No charges
Works affecting pest bird species such as crow, feral pigeons, jackdaws, etc.	Licence	Wildlife and Countryside Act 1981	Natural England Countryside Council for Wales National Assembly for Wales	• Purpose of preserving public health and/or safety • Method for dealing with the birds – non-lethal and humane	Natural England – allow 15 working days Countryside Council for Wales/ National Assembly for Wales – allow 1 months	• No charges

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Wildlife (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Works affecting Water Voles, Red Squirrels and other protected species.	No development licences required however liaise with Natural England and Countryside Council for Wales.	Wildlife and Countryside Act 1981	Natural England Countryside Council for Wales	This should be covered by planning permissions however if works are likely to impact on protected species regulated under Wildlife and Countryside Act 1981 contact Natural England and Countryside Council for Wales prior to works commencing to identify mitigation measures as required. Should protected species regulated under the Wildlife and Countryside Act 1981 be discovered whilst on site stop work and seek advice from Natural England and Countryside Council for Wales.		N/A
Introducing fish into rivers, streams, lakes, ponds or tidal waters	Section 30 Fish Movement Licence	Salmon and Freshwater Fisheries Act 1975	Environment Agency	• Name and type of water • Type, number and size of fish	Allow up to 20 days (aim to process in 10 days)	• No charge
Removing fish from rivers, streams, lakes, ponds or tidal waters.	Fisheries Byelaw Consent	Salmon and Freshwater Fisheries Act 1975	Environment Agency	• Name and type of water • Removal method. • Type, number and size of fish	Allow up to 20 days (aim to process in 10 days)	• No charge

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Wildlife (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)

Treatment of Japanese knotweed on site	Prior consent	Wildlife and Countryside Act 1981
		
		Environmental Protection Act 1990
		
		Clean Air Act 1993
		
		Environmental Permitting (England & Wales) Regulations 2010
			Environment Agency and Local Authority Environmental Health	• Burning on site - exemption
				  • Location of exempt activity.
				  • D7 exemption under the Environmental Permitting Regulations 2010
				• Smoke control areas
				• Black smoke not permitted Check with Local Authority if open burning permitted at location of burn
					• Not specified but allow at least 5 working days	• No charge

Treatment of Japanese knotweed on site	Formal notification	Wildlife and Countryside Act 1981 Environmental Permitting (England & Wales) Regulations 2010	Environment Agency	Burial on site • Burial location to be notified	• One week prior to activity commencing	• No charge
	Prior consent	Wildlife and Countryside Act 1981 Water Resources Act 1991	Environment Agency	Use of herbicide near water (within 5m) • Location of area to be treatment • Type of herbicide to be used	• Two weeks prior works commencing	• No charge

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Waste (England and Wales)**

Site process	Consent, licence, environmental permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Movement and disposal of inert and non-hazardous waste	Waste transfer note	Environmental Protection Act 1990, Part II, S.34 Waste (England & Wales) Regulations 2011	Environment Agency	• Waste transfer notes are available from Office Services at Camberley and are provided by the environment department	N/A	N/A
Movement and disposal of hazardous waste	Consignment note	Hazardous Waste (England & Wales) Regulations 2005	Environment Agency	• Consignment notes can be downloaded from the BAM Nuttall intranet or EA website.	N/A	N/A
Storage and disposal of hazardous waste	Hazardous waste premises notification	Hazardous Waste (England & Wales) Regulations 2005	Environment Agency	• Information required for the application is detailed within BAM Nuttall procedure EP04	• Internet and telephone registration immediate. • Postal registration – week	• £18 internet registration • £23 telephone registration • £28 postal registration
Movement of waste off site	Waste carriers certificate	Control of pollution act 1989 Waste (England & Wales) Regulations 2011	Environment Agency	• Anyone carrying construction and demolition waste must be a registered waste carrier and/or broker • BAM Nuttall is a registered waste broker, Nuttall John Martin and Finchpalm are a both registered waste carriers	N/A	N/A

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Waste (England and Wales)**

Site process	Consent, licence, environmental permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Reuse and recovery of waste materials on site and off site.	Environmental Permit or Exemption	Environment Permitting (England & Wales) Regulations 2010	Environment Agency	• Location of permitted or exempt activity • Relevant permit or exemption under the Environmental Permitting Regulations 2010 • Material is suitable for use e.g. meets an engineering specification • Use of material would not cause harm to human health or the environment • Planning permission is in place (if applicable) • You have landowner/occupiers consent • BAM Nuttall procedure EP11 provide information on permitted / exempt activities	• From several days for exemptions to 3 / 4 months for standard / bespoke permits	• Exempt activities are not chargeable • Permitted activities are chargeable: <u>Standard</u> Application £2,000 Subsistence £2,000 Surrender £600 <u>Bespoke</u> For sensitive/high risk sites. Costs to be determined on case by case basis. Allow £10,000

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Waste (England and Wales)**

Site process	Consent, licence, environmental permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Keep, treat and dispose of waste on land	Environmental Permit or Exemption	Environment Permitting (England & Wales) Regulations 2010 Landfill (England & Wales) Regulations 2002 as amended (Town and Country Planning Act 1980)	Environment Agency	• Planning permission • Location of site • Type of waste to be disposed • Competent person (WAMITAB) • Fit & proper person • Financial provisions • Site working plan • Restoration plans/ surrender application	• From several days for exemptions to 3 / 4 months for standard / bespoke permits	• Exempt activities are not chargeable • Permitted activities are chargeable: <u>Standard</u> Application £2,000 Subsistence £2,000 Surrender £600 <u>Bespoke</u> For sensitive/high risk sites Costs to be determined on case by case basis • Allow £10,000
Treatment of contaminated land and water	Mobile treatment licence **Note:** BAM Nuttall holds a mobile treatment licence	Environment Permitting (England & Wales) Regulations 2010 (Waste Management Licensing Regulations 1994 as amended)	Environment Agency	• Deployment form • Remediation action plan • Competent person (WAMITAB)	• Allow at least 30 days	• Annual subsistence £2,500 (Technical Services) • WAMITAB training £1,000-£5,000
Treatment of aerosols using approved degassing equipment	T15 Exemption	Environment Permitting (England & Wales) Regulations 2010	Environment Agency	• Location of permitted or exempt activity • Contact environment advisor for assistance	• Maximum 1 week	• Exempt activities are not chargeable

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Water (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Any discharges to rivers, watercourses, other surface waters, groundwater, tidal waters or the sea. Discharging sewage effluent, trade effluent or contaminated water to land or water. Dewatering activities may require consent.	Water Discharge Activity Permit	Environmental Permitting (England & Wales) Regulations 2010 Water Resources Act 1991 Groundwater Regulations 1998	Environment Agency	• Estimate of volumes. • Types of water i.e. site runoff • Location plan indicating discharge point(s) • Fee	• Allow up to 120 days.	• Application Charge • Annual Charge – calculated on volume, content and receiving waters • Advertising fees
Abstracting or taking water from rivers, streams, lakes, ponds, tidal waters or groundwater. Constructing or altering any impounding works in rivers, streams, ponds or tidal waters. Dewatering activities may require a licence. **Note:** licence is not required for abstraction for any purpose of less than 20 cubic metres a day.	Abstraction licence • Full licence – applicable to most abstractions over 20m3 a day • Transfer licence – moving water from one location to another with no intervening use • Temporary licence – over 20m3 a day over a period of less than 28 consecutive days	Water Resources Act 1991	Environment Agency	• Estimate of volumes • What the abstract is for i.e. dust suppression • Location plan indicating abstraction point(s) • Locations if water transfer is taking place • Fee	• Full and transfer licences - allow up to 120 days • Temporary licences – allow 28 days	• Application Charge • Annual Charge – calculated on volume of water removed, seasonal factor and minimum subsistence charge • Advertising fees

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Water (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Temporary/permanent works over and in a main river. Works within 7-10m of a main river, note the distance may vary between EA regions. Raising ground levels in the floodplain beside a main river.	Flood defence consent (formerly known as land drainage consent/ works affecting watercourses consent)	Water Resources Act 1991 Land Drainage Act 1991 Local Byelaws	Environment Agency	• Description of the works • Location plan • Method statement • Fee	• Allow up to 60 days	• Fee - £50
Construction of a culvert or flow control structure (such as a weir) on any ordinary watercourse.	Flood defence consent (formerly known as land drainage consent/ works affecting watercourses consent)	Land Drainage Act 1991 Local Byelaws	Environment Agency	• Description of the works • Location plan • Method statement • Fee	• Allow up to 60 days	• Fee - £50
Works on flood defence structures	Flood defence consent	Local Byelaws	Environment Agency	• Description of the works • Location plan • Method statement	• Allow up to 60 days	• No charge
Works within a floodplain	Flood defence consent	Local Byelaws	Environment Agency	• Description of the works • Location plan • Method statement	• Allow up to 60 days	• No charge

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Water (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Construction works (temporary/permanent) on the sea bed/within tidal waters **Note:** if a Food and Environment Protection Act license (FEPA) is required it is more than likely that a Coastal Protection Act (CPA) consent is too. Therefore application form covers both. **Note**: **Dredging/ Marine works** Local Harbour Authorities may have delegated powers regulating dredging activities within harbour limits.	FEPA Licence	Food and Environment Protection Act 1985	DEFRA/Marine and Fishery Agency	• Description of the works • Location plan • Method statement • Fee	• Allow up to 120 days Note: may take up to 6 months if the site is located in an environmentally sensitive area	• Fee – variable depends on cost of projects • Administration Fee • Environmental Sensitivity Supplement
	CPA Consent / Harbour/ Port Authority Consent	Coastal Protection Act 1949 Local Harbour/ Port Authority Bi- Laws	DEFRA/Marine and Fishery Agency	• Description of the works • Location plan	• Allow up to 120 days	• CPA, No charge • May be required to advertise the works in local press etc • Plans deposited in public place • Harbour authority may have fees associated with activities under their jurisdiction
Disposal of dredging at sea. **Note:** Dredging disposed above high water spring regulated under waste management licensing regulations. Contact SEPA.	FEPA Licence	Food and Environment Protection Act 1985	DEFRA/Marine and Fishery Agency	• Description of the works • Location plan • Method statement • Fee	• Allow up to 8 weeks Note: may take up to 6 months if the site is located in an environmentally sensitive area	• Fee – variable depends on quantity to be deposited (between £1000 - £6000)

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Water (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Invasive works including excavations and structural works on foreshore and below mean high spring.	Poss ble Consent required	Landownership rights	Crown Estate	• Should be carried out by client.	• Should be carried out by client.	N/A
Installation and operation of a septic tank **Note:** check with Environment Agency prior to installation as consent may not be granted if installed in a groundwater source protection zone.	Water Discharge Activity Permit	Environmental Permitting (England & Wales) Regulations 2010 Water Resources Act 1991	Environment Agency	• Estimate of volumes. • Location plan indicating discharge point(s) • Fee	• Allow up to 120 days	• Application Charge • Annual Charge – calculated on volume, content and receiving waters • Advertising fees
Use of herbicides in or near water	Herbicide Authorisation	Control of Pesticides Regulations 1986 as amended (Food and Environment Protection Act 1985)	Environment Agency	• Location to be used at including grid reference • Information about the controlled waters • Reason for weed control • Herbicide to be used and method of application	• Allow 30 days	• No charge

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Water (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Removing fish from rivers, streams, lakes, ponds or tidal waters.	Fisheries Byelaw Consent	Salmon and Freshwater Fisheries Act 1975	Environment Agency	• Name and type of water • Removal method • Type, number and size of fish	• Allow up to 20 days (aim to process in 10 days)	• No charge
Introducing fish into rivers, streams, lakes, ponds or tidal waters	Section 30 Fish Movement Licence	Salmon and Freshwater Fisheries Act 1975	Environment Agency	• Name and type of water • Type, number and size of fish	• Allow up to 20 days (aim to process in 10 days)	• No charge
Boats navigating on certain rivers. (Non-tidal River Thames (from Cricklade to Teddington), River Nene, River Welland, River Glen, River Stour, River Ancholme, Great Ouse River, River Medway, Rye Harbour)	Navigation Registration and Licence	Anglian Water Act 1977, Southern Water Authority Acts 1982 and 1988, Harbour of Rye Revision Order 1976, Thames Conservancy Act 1932 to 1972	Environment Agency	• If works are to be carried out on the rivers identified within the site process box including the use of boats for safety or transportation. Contact the Environment Agency to confirm licence requirements.		

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Nuisance (England and Wales)**

Site process	Consent, licence, environmental permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Managing noise and vibration levels	Section 61 consent	Control of Pollution Act 1974	Local Authority Environmental Health	• Works to be carried out. • Method of works • Type of plant • Control measures to minimise noise • Predicted noise levels	• Allow up to 21 days	• No charge • Noise monitoring equipment (hire/purchase costs)/ consultant to undertake noise monitoring to ensure compliance with consent
Crushing and screening operations	Authorisation to operate a part B prescribed process (Classed as an Environmental Permit)	Environmental Permitting Regulations (England & Wales) 2010 Pollution Prevention and Control (England & Wales) Regulations 2000	Local Authority Environmental Health	• The subcontractor operating the crushing and screening plant will hold the authorisation • Ensure that site obtains a copy of the authorisation and is aware of the requirements • BAM Nuttall environment procedure EP12	N/A	N/A
Manufacturing of aggregates and soils from demolition, construction, tunnelling and excavation wastes or waste ash, slag, clinker or rock, e.g. screening of soils.	Environmental Permit or Exemption	Environmental Permitting Regulations 2010	Environment Agency	• Screening and crushing activities to manufacture roadstone, aggregate, soil or soil substitutes • Depending on the quantity and type of material being processed different quantities may be produced under permit or exemption • Refer to BAM Nuttall environment procedure EP12	• From several days for exemptions up to 3 months for standard permits and up to 4 months for bespoke permits	• Exempt activities are not chargeable • Permitted activities are chargeable: <u>Standard</u> Application £2,000 Subsistence £2,000 Surrender £600 <u>Bespoke</u> For sensitive/high risk sites. Costs to be determined on case by case basis. Allow £10,000

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Archaeology (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
				Note: works affecting buildings or structures of archaeological interest or those within conservation areas is generally covered by planning permission.		
All works affecting a scheduled monument or the ground surrounding it.	Scheduled monument consent	Town and Country Planning Act 1990 Ancient monuments and archaeological areas Act 1979	Local Planning Authority	• Location plan • Detailed drawings • Details of the proposed works • Planning permission if applicable	Allow 8 weeks	• No charge
Demolition or alteration of a listed building and historic structures within its grounds.	Listed building consent	Town & Country Planning Act 1990 Planning (Listed Buildings and Conservation Areas) Act 1990	Local Planning Authority	• Location plan • Detailed drawings • Details of the proposed works • Planning permission if applicable.	Allow 8 weeks	• No charge
Demolition of an unlisted building in a conservation area.	Conservation area consent	Town & Country Planning Act 1990 Planning (Listed Buildings and Conservation Areas) Act 1990	Local Planning Authority	• Location plan • Detailed drawings • Details of the proposed works • Planning permission if applicable	Allow 8 weeks	• No charge

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Appendix C. Permits to Proceed

PERMIT TO PROCEED

PERMIT REFERENCE: LC401-LPR-NPK-CK-PTP-0003_C04

Dear Sirs,
With respect to any physical works on the Olympic Park, we confirm that the protection and maintenance of assets including bridge, utilities, above and below ground structures and ground remediation works are of utmost priority. We hereby submit this permit application for your acceptance. We understand we are initially required to complete Sections A and B prior to commencement of our works and that we are responsible for the integrity of all features mentioned above. In addition, upon acceptance of Sections A and B we shall liaise with the Principal Contractor during both the implementation and execution of this permit and comply with their Permit to Dig system. permittoproceed@londonlegacy.co.uk

SECTION A – WORKS INFORMATION *(To be completed & submitted by the contractor 5 days prior to works)*

Prepared by	[redacted]	Responsible Person	[redacted]
of Company	BAM Nuttall	of Company	BAM Nuttall
Date	10/12/2012	Date	10/12/2012
Project Title	QEOP Transformation Project	Principal Contractor	BAM Nuttall
Title of Works	*East Marsh site clearance and Earthwork (NC20)*	Contractor Reference	LC401-LPR-NPK-CK-PTP-0003
Construction Zone	East Marsh NC20	Works Start Date	07/11/2012
LLDC Reference		Works Finish Date	03/05/2013

Co-ordinates of works	Olympic Grid: E: 27244.100, N:15885.100 (Centre of Site)
Description of works (including risk to assets)	Site clearance: removal of lighting columns and associated pits and ducting, OPF boundary fencing Earthwork: Removal of block paving and sub base material max 300mm down from existing level. The area will be backfilled with 300mm sub soil and 200mm top soil. The sub soil will be sourced from Warm Up Track excavation plug tunnel material and top soil will be imported. Construction of football pitches by subcontractor Frost
Dimension of works (incl. depth)	105000m^2 (App 450m x 260m)
Asset protection measures	No utilities within the dig area

Documentation	Uploaded to BIW**	Comments (see Section C)†
Works location plan: in Activity Plan LC401-LPR-EWK-CK-APL-0017	☒	☐
Scope of works: in Activity Plan LC401-LPR-EWK-CK-APL-0017	☒	☐
LLDC GIS drawing – Utilities	N	☐
– Third Party Assets	N	☐
– Boreholes	N	☐
Method statements and risk assessment: Activity Plan LC401-LPR-EWK-CK-APL-0017 and OMS LC401-LPR-EWK-CK-MST-0003	☒	☐
Traffic / pedestrian management proposal: in Activity Plan LC401-LPR-EWK-CK-APL-0012	☒	☐
Piling risk assessment: N/A	☐	☐
Asset protection measures *	☐	☐
Additional Information:	☐	☐
……	☐	☐

* Joint inspection required with Principal Contractor before and after works ** Contractor to complete † Reviewer to complete

Earthworks above marker layer (m^3)	Removing 20 mm aggregate 27000 m^3 ; Blockpaving 7000 m^3 and Backfilling Sub soil 27832m^3 ; Top soil 18554m^3
Earthworks below marker layer (m^3)	N/A

Additional Comments:

SECTION B – EXISTING ASSETS *(To be completed by the contractor)*			
Existing Assets within/adjacent to works boundary (see Section A)	~~Yes~~ / NO	Permit Revision	

I can confirm that the Utility owner has been notified and has reviewed and approved all RAMS within the works boundary. (*Please tick all relevant assets within the works boundary*)

Olympic Park Perimeter Fence	☐	IP Gas	N	EDF	N
PLUG	N	BT Communications	N	District Heating/Cooling	N
EA Assets	N	COLT fire optics	N	Surface Water Drainage	N
Thames Water (foul)	N	Thames Water (potable / non potable)	N	Others (use additional comments section below)	☐

Above / below ground structures: *(state structure reference)*

I confirm that <u>all</u> known existing services in relation to attached up to date service drawings affected by / adjacent to work area will be marked out on site using the correct colour codes.	☒
I confirm that an independent pre work passive power and radio scan will be completed within the works boundary.	☒
I confirm a site briefing for all site staff by the contractor's nominated Responsible Person will take place before any works commence. Records to be signed by the work force.	☒
I understand my ongoing responsibilities in relation to this permit with regards to the LLDC Common Standard No.14 and HSG47.	☒
I confirm that protection measures for all assets including above ground structures affected by the works have been included in the RAMS detailed in Section A.	☒

Additional Comments:

Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*

SECTION C – PERMIT APPROVAL *(To be completed by the LLDC reviewer)*

Prepared by	[redacted]	Authorised by	[redacted]
of Company	Atkins	of Company	Atkins
Date	07/01/2012	Date	07/01/2012
Accepted	Yes		

Conditions of acceptance / reason for non-acceptance (over and above those detailed in the guidance document):

- Please note conditions provided in Section 2.3 of the PTP Protocol ref: LC810-LTR-PWD-CM-REP-0001, paying particular attention to: segregation of above and below marker layer materials; Quality of Imported Fill submissions under Transformation Planning Condition LTD.1.14; and validation works.
- Existing Marker Layer extent is provided in the site Consolidated Validation Reports (Stages 1-3) with elevations available in individual validation reports.
- Any works over and above those referenced in this permit and associated RAMS should be detailed under a new revision / supplementary permit to consider risks the site assets from excavation / loading and the impact on remediation cover systems.
- Boreholes referenced MBHRWOLY2B-101 and MBHCZOLY2-101 may conflict with these works and must be protected and integrated in to the final finish level.

Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*

SECTION D – CLOSEOUT INFORMATION *(to be completed by the contractor on completion of works)*

I confirm completion of works in accordance with the methods described in Sections A and B and the conditions described in Section C and the relevant guidance documents. On the basis of the following information and the attached supporting documents, we request that this application be formally closed.

Prepared by	[redacted]	Authorised by	[redacted]
of Company	BAM Nuttall	of Company (PC)	BAM Nuttall
Date	01-04-2014	Date	01-04-2014

D1: ASSET PROTECTION

Have Assets been damaged?	~~Yes~~ / No
If YES, provide details & rectification plan	

D2: COVER LAYER	Reinstated	Altered	Omitted
Marker Layer	~~Yes~~ / No	~~Yes~~ / No	~~Yes~~ / No
Human Health Separation Layer	Yes / ~~No~~	Yes ~~/ No~~	~~Yes~~ / No

Comments or description of cover system reinstatement	The area was overlain with site won subsoil/above the original marker layer general fill topped with "Topsoil 20", generally imported but with some site produced
Photo record of excavation and Marker Layer reinstatement	Not applicable as original marker layer left in-situ and intact
As-Built drawings provided	*Drawing 0241-ENW-PWD-C-DGA-1506 shows extent of original marker layer, PZ15 fig9 shows extent of AML (sub-soil), PZ15 fig 10 shows extent of imported fill (Topsoil), Drawing LC401-LPR-EMF-L-DGA-0002 Rev Z01 shows as-built finished levels*

D3: EXCAVATED VOLUMES	Above Marker Layer (m^3)	Below Marker Layer (m^3)
Total cut	24189m^3	Nil
Cut volume retained (on site)	14053m^3	
Cut volume to Treatment Centre		
Cut volume sent off Olympic Park	10265m^3 for re-use	
Export Application reference		

D4: FILL VOLUMES	Above Marker (m^3)	Chemical Tests (no.)	Below Marker (m^3)	Chemical Tests (no.)
Total fill	33600 m^3 of subsoil & 18544$m^3$of topsoil		Nil	
Site won fill (reused)	33575m^3 subsoil 1945m^3 Topsoil 20		Nil	
Fill from Treatment Centre			Nil	
Fill from outside Olympic Park	25m^3 subsoil 16600m^3 Topsoil 20		Nil	
Export Application reference				

I confirm that all cut and fill volumes have been logged with the Principal Contractors materials management system for waste licensing purposes.	☑
I confirm that the site has been left in a satisfactory condition with services re-marked out as per LLDC Common Standard No.14 *(Attach photographic records)*	☑
I confirm that any excavations in roads have been suitably reinstated in line with the Specification for Highway Standards unless otherwise agreed with the Project Manager.	☑

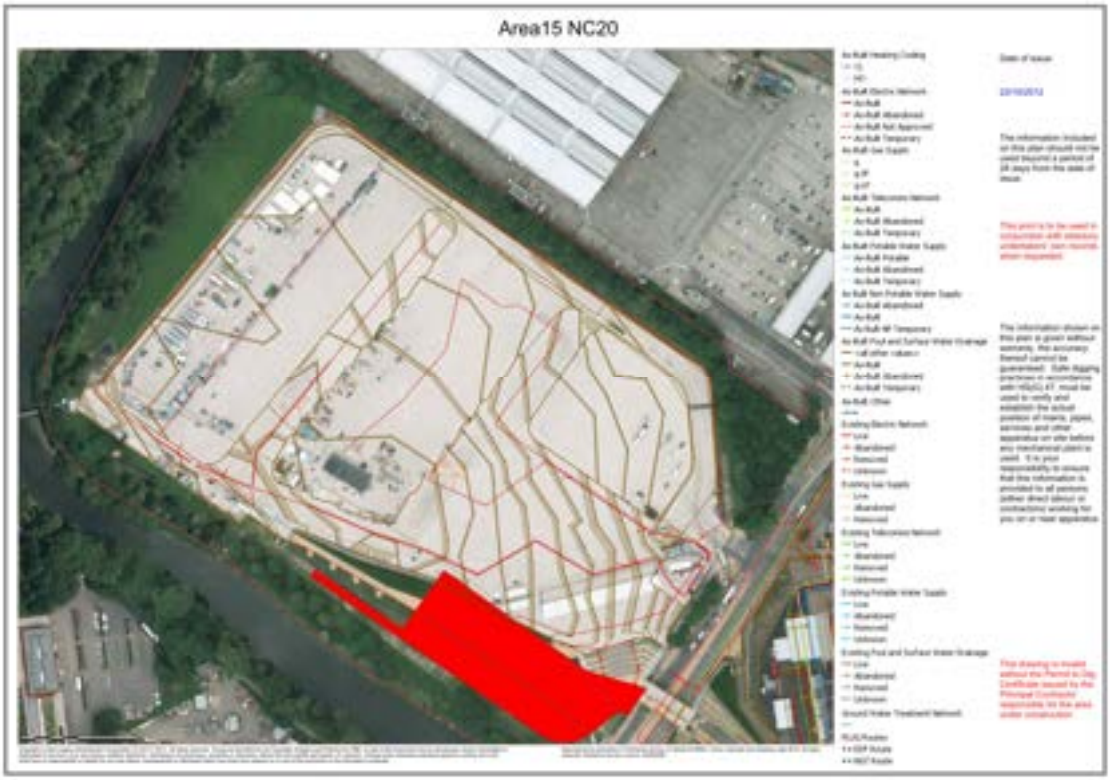
Additional Comments:

SECTION E *(Application is closed by the LLDC Permitting Team following review of Section D and returned to Contractor)*

Prepared by		Authorised by	
of Company		of Company	
Date		Date	

Accepted & Closed	Yes / No
Comments or conditions on closure / reason for non-closure of application:	
Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*	

Location Plan GIS



PERMIT TO PROCEED

PERMIT REFERENCE: LC401-LPR-EWK-CK-PTP-0010_C04

Dear Sirs,
With respect to any physical works on the Olympic Park, we confirm that the protection and maintenance of assets including bridge, utilities, above and below ground structures and ground remediation works are of utmost priority. We hereby submit this permit application for your acceptance. We understand we are initially required to complete Sections A and B prior to commencement of our works and that we are responsible for the integrity of all features mentioned above. In addition, upon acceptance of Sections A and B we shall liaise with the Principal Contractor during both the implementation and execution of this permit and comply with their Permit to Dig system.

SECTION A – WORKS INFORMATION *(To be completed & submitted by the contractor 5 days prior to works)*

Prepared by	[redacted]	Responsible Person	[redacted]
of Company	Bam Nuttall	of Company	Bam Nuttall
Date	11/02/2013	Date	11/02/2013
Project Title	Legacy Transformation	Principal Contractor	Bam Nuttall
Title of Works	*Excavation of Tree Pits*	Contractor Reference	
Construction Zone	NC25 (Zone 15)	Works Start Date	18/02/13
LLDC Reference		Works Finish Date	01/04/13

Co-ordinates of works	*Olympic Grid (see PTP Model sketch attached)*
Description of works (including risk to assets)	Excavation of tree pits, tree planting & back fill of tree pits. Ground protection mats to be used to protect landscaped areas for plant movements around the works area. No other assets present. Assets present only to access works area, no excavations within ZOI of assets.
Dimension of works (incl. depth)	37 No. Tree Pits, various sizes x 0.8m deep
Asset protection measures	Navi Mats, Ground Protection Mats

Documentation	Uploaded to BIW**	Comments (see Section C)†
Works location plan (in AP LC401-LPR-EWK-CK-APL-0021)	☒	☐
Scope of works (in AP LC401-LPR-EWK-CK-APL-0021)	☒	☐
LLDC GIS drawing – Utilities (attached)	☐	☐
– Third Party Assets (attached)	☐	☐
– Boreholes (attached)	☐	☐
Method statements and risk assessment (in AP LC401-LPR-EWK-CK-APL-0021)	☒	☐
Traffic / pedestrian management proposal (in AP LC401-LPR-EWK-CK-APL-0021)	☒	☐
Piling risk assessment	☐	☐
Asset protection measures *	☐	☐
Additional Information:	☐	☐
……	☐	☐

* Joint inspection required with Principal Contractor before and after works ** Contractor to complete † Reviewer to complete

Earthworks above marker layer (m^3)	Total excavation 533m^3
Earthworks below marker layer (m^3)	The tree pits in NC25 lie outside the area of remediation carried out for Games so no marker layer is present

Additional Comments:

SECTION B – EXISTING ASSETS *(To be completed by the contractor)*

Existing Assets within/adjacent to works boundary (see Section A)	Yes	Permit Revision	

I can confirm that the Utility owner has been notified and has reviewed and approved all RAMS within the works boundary. (*Please tick all relevant assets within the works boundary*)					
Olympic Park Perimeter Fence	☐	IP Gas	☐	EDF	☐
PLUG	☐	BT Communications	☐	District Heating/Cooling	☐
EA Assets	☐	COLT fire optics	☐	Surface Water Drainage	☐
Thames Water (foul)	☐	Thames Water (potable / non potable)	☐	Others (use additional comments section below)	☐
Above / below ground structures: *(state structure reference)*					
I confirm that <u>all</u> known existing services in relation to attached up to date service drawings affected by / adjacent to work area will be marked out on site using the correct colour codes.					☒
I confirm that an independent pre work passive power and radio scan will be completed within the works boundary.					☒
I confirm a site briefing for all site staff by the contractor's nominated Responsible Person will take place before any works commence. Records to be signed by the work force.					☒
I understand my ongoing responsibilities in relation to this permit with regards to the LLDC Common Standard No.14 and HSG47.					☒
I confirm that protection measures for all assets including above ground structures affected by the works have been included in the RAMS detailed in Section A.					☒
Additional Comments:					

Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*

SECTION C – PERMIT APPROVAL *(To be completed by the LLDC reviewer)*

Prepared by	[redacted]	Authorised by	[redacted]
of Company	Atkins	of Company	Atkins
Date	15/02/2013	Date	15/02/2013
Accepted	Yes		

Conditions of acceptance / reason for non-acceptance (over and above those detailed in the guidance document):

- Please note conditions provided in Section 2.3 of the PTP Protocol ref: LC810-LTR-PWD-CM-REP-0001, paying particular attention to: the segregation of above and below marker layer materials; Quality of Imported Fill submissions under Transformation Planning Condition LTD.1.14; and validation works.
- Existing Marker Layer extent is provided in the site Consolidated Validation Reports (Stages 1-3) with elevations available in individual validation reports. Marker Layer to be reinstated and tied-in with surrounding Marker Layers at each pit. The position of the reinstated Marker Layer should be at the base of each pit.
- Any unbound fill materials (including type 1) must comply with the relevant Site Specific Remediation Specifications for these works as demonstrate by chemical testing place material or using source data. For imported materials, contractors are required to comply with: Facilities and their Legacy Transformation Planning Application, No. 07/90010/OUMODA, Condition LTD 'Quality of Imported Fill' via liaison with the Planning Decisions Team. Other 'slot-in' planning conditions may also apply.
- Borehole ref: MBHCZOLY2-101 is located to the north west of the working area as defined in LC401-LPR-EWK-CK-APL-0021. This must be protected and maintained for the duration of these works.

Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*

SECTION D – CLOSEOUT INFORMATION *(to be completed by the contractor on completion of works)*

I confirm completion of works in accordance with the methods described in Sections A and B and the conditions described in Section C and the relevant guidance documents. On the basis of the following information and the attached supporting documents, we request that this application be formally closed.

Prepared by	[redacted]	Authorised by	[redacted]
of Company	BAM Nuttall	of Company (PC)	BAM Nuttall
Date	11-Mar-2014	Date	11-Mar-2014

D1: ASSET PROTECTION			
Have Assets been damaged?	~~Yes /~~ No		
If YES, provide details & rectification plan			
D2: COVER LAYER	**Reinstated**	**Altered**	**Omitted**
Marker Layer	~~Yes~~ / No	~~Yes~~ / No	Yes / ~~No~~
Human Health Separation Layer	Yes / No	Yes / No	~~Yes~~ / No
Comments or description of cover system reinstatement	The area concerned lies outside the area remediated for the Games so there is no existing marker layer to repair, reinstate or maintain.		
Photo record of excavation and Marker Layer reinstatement	Tree pit reinstatement with imported soils, human health layer compliant. No marker layer		
As-Built drawings provided	LC401-LPR-NPK-L-DGA-0106		

D3: EXCAVATED VOLUMES	Above Marker Layer (m^3)	Below Marker Layer (m^3)
Total cut	533m³	No marker layer present, NC25 lies outside the Games phase remediated area
Cut volume retained (on site)	Sent to Warm-up track stockpiles for re-use below marker layer	
Cut volume to Treatment Centre		
Cut volume sent off Olympic Park		
Export Application reference		

D4: FILL VOLUMES	Above Marker (m^3)	Chemical Tests (no.)	Below Marker (m^3)	Chemical Tests (no.)
Total fill	496.3m³			
Site won fill (reused)	11m³ Multi-purpose topsoil 33.4m³ Low Nutrient topsoil 33.4m³ Subsoil			
Fill from Treatment Centre				
Fill from outside Olympic Park	255.6m³ Low Nutrient Topsoil 162.9m³ Subsoil			
Export Application reference				

I confirm that all cut and fill volumes have been logged with the Principal Contractors materials management system for waste licensing purposes.	☐
I confirm that the site has been left in a satisfactory condition with services re-marked out as per LLDC Common Standard No.14 *(Attach photographic records)*	☐
I confirm that any excavations in roads have been suitably reinstated in line with the Specification for Highway Standards unless otherwise agreed with the Project Manager.	☐

Additional Comments:

The difference between cut and fill volumes is accounted for by the volume of the root balls of the trees

SECTION E *(Application is closed by the LLDC Permitting Team following review of Section D and returned to Contractor)*

Prepared by	[redacted]	Authorised by	[redacted]
of Company	Atkins	of Company	Atkins
Date	31/03/2014	Date	31/03/2014
Accepted & Closed	Yes		

Comments or conditions on closure / reason for non-closure of application:

Full details of materials placed including relevant as placed/source chemical analytical data to be provided in the relevant remediation validation reports for this area. Validation report to be submitted for approval by the planning authority.

Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*

PERMIT TO PROCEED

PERMIT REFERENCE: LC401-LPR-NPK-C-PTP-0003_C02

Dear Sirs,
With respect to any physical works on the Olympic Park, we confirm that the protection and maintenance of assets including bridge, utilities, above and below ground structures and ground remediation works are of utmost priority. We hereby submit this permit application for your acceptance. We understand we are initially required to complete Sections A and B prior to commencement of our works and that we are responsible for the integrity of all features mentioned above. In addition, upon acceptance of Sections A and B we shall liaise with the Principal Contractor during both the implementation and execution of this permit and comply with their Permit to Dig system. permittoproceed@londonlegacy.co.uk

SECTION A – WORKS INFORMATION *(To be completed & submitted by the contractor 5 days prior to works)*

Prepared by	[redacted]	Responsible Person	[redacted]
of Company	BAM Nuttall	of Company	BAM Nuttall
Date	19/06/2013	Date	19/06/2013
Project Title	QEOP Transformation Project	Principal Contractor	BAM Nuttall
Title of Works	MTB Trails construction NC25	Contractor Reference	LC401-LPR-NPK-C-PTP-0003
Construction Zone	Zone 15, NC25 (see appended location plan)	Works Start Date	01/07/2013
LLDC Reference		Works Finish Date	15/08/2013

Co-ordinates of works	Olympic Grid: 27370.60to 15629.26 to 27378.21to 15606.11 to27364.65 to15582.62 to27306.76 to15620.99 to27147.98 to15736.77 to27166.51 to15753.31 to27173.79 to 15745.37 to27285.59 to15678.88
Description of works (including risk to assets)	Mountain Bike trail Construction: Excavation for the formation of Mountain bike trails will be carried out by mini digger with minimum disruption to the vegetation .where trails are near trees work will be done by hand dig. Max depth of excavation will be up to 250mm. Formation for Mountain bike trail will be compacted by wacker plate to ensure correct water runoff. Following preparation of formation 150mm layer of type 1 will be placed and compacted. And then surfacing of trails will be done as per trails designer instructions. Works within the ZOI of services will be carried out in accordance with CS14
Dimension of works (incl. depth)	Total length of trails 700 m,Average width 1.00m and average depth is 200mm
Asset protection measures	Approved method of work from utility providers

Documentation		Uploaded to BIW**	Comments (see Section C)†
Works location plan: attached		☐	☐
Scope of works: Construction of Mountain bike trails in NC25		☒	☐
LLDC GIS drawing – Utilities	GIS Plan attached	☐	☐
– Third Party Assets	Existing trees/Vegetation	☒	☐
– Boreholes	MBHCZOLY2-101	☐	☐
Method statements and risk assessment: OMS LC401-LPR-LHD-C-MST-0001		☒	☐
Traffic / pedestrian management proposal: OMS LC401-LPR-LHD-C-MST-0001		☒	☐
Piling risk assessment: N/A		☐	☐
Asset protection measures *		☐	☐
Additional Information:		☐	☐

* Joint inspection required with Principal Contractor before and after works ** Contractor to complete † Reviewer to complete

Earthworks above marker layer (m^3)	150 m3
Earthworks below marker layer (m^3)	NA

Additional Comments:

SECTION B – EXISTING ASSETS *(To be completed by the contractor)*

Existing Assets within/adjacent to works boundary (see Section A)	Yes / ~~No~~	Permit Revision	

I can confirm that the Utility owner has been notified and has reviewed and approved all RAMS within the works boundary. (*Please tick all relevant assets within the works boundary*)

Olympic Park Perimeter Fence	☐	IP Gas	☐	EDF	☐
PLUG	☐	BT Communications	☐	District Heating/Cooling	☐
EA Assets	☐	COLT fire optics	☐	Surface Water Drainage	☒
Thames Water (foul)	☐	Thames Water (potable / non potable)	☐	Others (use additional comments section below)	☐

Above / below ground structures: *(state structure reference)*

I confirm that <u>all</u> known existing services in relation to attached up to date service drawings affected by / adjacent to work area will be marked out on site using the correct colour codes.	☒
I confirm that an independent pre work passive power and radio scan will be completed within the works boundary.	☒
I confirm a site briefing for all site staff by the contractor's nominated Responsible Person will take place before any works commence. Records to be signed by the work force.	☒
I understand my ongoing responsibilities in relation to this permit with regards to the LLDC Common Standard No.14 and HSG47.	☒
I confirm that protection measures for all assets including above ground structures affected by the works have been included in the RAMS detailed in Section A.	☒

Additional Comments:

Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*

SECTION C – PERMIT APPROVAL *(To be completed by the LLDC reviewer)*

Prepared by	[redacted]	Authorised by	[redacted]
of Company	Atkins	of Company	Atkins
Date	20/06/2013	Date	20/06/2013
Accepted	Yes		

Conditions of acceptance / reason for non-acceptance (over and above those detailed in the guidance document):

- Please note conditions provided in **Remediation Validation Guidance note (LC002-OPS-XXX-Z-EXE-0004)** including LTD.1.13 (Unexpected Contamination) and Section 2.3 of the PTP Protocol ref: LC810-LTR-PWD-CM-REP-0001, paying particular attention to: the segregation of above and below marker layer materials; **Quality of Imported Fill submissions under Transformation Planning Condition LTD.1.14**; and validation works.
- Existing Marker Layer extent is provided in the site Consolidated Validation Reports (Stages 1-3) with elevations available in individual validation reports. Trial trenches to be undertaken within works area to determine the presence and depth of Marker Layer. **Marker Layer to be placed / reinstated to form a continuous layer across the site unless otherwise agreed with the Planning Authority. Reinstated Marker Layer to be tied-in with surrounding Marker Layers where placed.**
- Any unbound fill materials (including type 1) must comply with the relevant Site Specific Remediation Specifications for these works as demonstrate by chemical testing place material or using source data. **For imported materials, contractors are required to comply with: Facilities and their Legacy Transformation Planning Application, No. 07/90010/OUMODA, Condition LTD.1.14 'Quality of Imported Fill'** via liaison with the Planning Decisions Team. Other 'slot-in' planning conditions may also apply.
- Note that the LLDC GIS is accurate as of the end of the Olympic Games and has not been updated with any changes after this period. Any works over and above those referenced in this permit and associated RAMS should be detailed under a new revision / supplementary permit to consider risks the site assets from excavation / loading and the impact on remediation cover systems.

Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*

SECTION D – CLOSEOUT INFORMATION *(to be completed by the contractor on completion of works)*

I confirm completion of works in accordance with the methods described in Sections A and B and the conditions described in Section C and the relevant guidance documents. On the basis of the following information and the attached supporting documents, we request that this application be formally closed.

Prepared by	[redacted]	Authorised by	[redacted]
of Company	Bam nuttall	of Company (PC)	Bam Nuttall
Date	03/12/13	Date	03/12/13

D1: ASSET PROTECTION

Have Assets been damaged?	No
If YES, provide details & rectification plan	

D2: COVER LAYER	Reinstated	Altered	Omitted
Marker Layer	No	No	No
Human Health Separation Layer	No	No	No
Comments or description of cover system reinstatement	*(Detail Marker Layer and Human Health Separation Layer materials and any reasons for specific omission)*		
Photo record of excavation and Marker Layer reinstatement	*(Attach photographic records)*		
As-Built drawings provided	*(Attach as-built drawing or sketch indicating cover system reinstatement)*		

D3: EXCAVATED VOLUMES	Above Marker Layer (m^3)	Below Marker Layer (m^3)
Total cut	120 m3	None
Cut volume retained (on site)	120 m3	
Cut volume to Treatment Centre	0	
Cut volume sent off Olympic Park	0	
Export Application reference		

D4: FILL VOLUMES	Above Marker (m^3)	Chemical Tests (no.)	Below Marker (m^3)	Chemical Tests (no.)
Total fill	250			
Site won fill (reused)	120 m3	NA		
Fill from Treatment Centre	0			
Fill from outside Olympic Park	0			
Export Application reference				

I confirm that all cut and fill volumes have been logged with the Principal Contractors materials management system for waste licensing purposes.	☒
I confirm that the site has been left in a satisfactory condition with services re-marked out as per LLDC Common Standard No.14 *(Attach photographic records)*	☒
I confirm that any excavations in roads have been suitably reinstated in line with the Specification for Highway Standards unless otherwise agreed with the Project Manager.	☒

Additional Comments:

SECTION E *(Application is closed by the LLDC Permitting Team following review of Section D and returned to Contractor)*

Prepared by		Authorised by	
of Company		of Company	
Date		Date	

Accepted & Closed	Yes / No
Comments or conditions on closure / reason for non-closure of application:	
Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*	

Location Plan

PERMIT TO PROCEED

PERMIT REFERENCE: LC401-LCI-L01-CB-PTP-0001_C04

Dear Sirs,
With respect to any physical works on the Olympic Park, we confirm that the protection and maintenance of assets including bridge, utilities, above and below ground structures and ground remediation works are of utmost priority. We hereby submit this permit application for your acceptance. We understand we are initially required to complete Sections A and B prior to commencement of our works and that we are responsible for the integrity of all features mentioned above. In addition, upon acceptance of Sections A and B we shall liaise with the Principal Contractor during both the implementation and execution of this permit and comply with their Permit to Dig system.

SECTION A – WORKS INFORMATION *(To be completed & submitted by the contractor 5 days prior to works)*

Prepared by	[redacted]	Responsible Person	[redacted]
of Company	BNL	of Company	BNL
Date	07/05/2013	Date	07/05/2013
Project Title	Transformation Project	Principal Contractor	BNL
Title of Works	Deconstruction of Temporary Bridge L01T and Reinstatement Works	Contractor Reference	*LC401-LCI-L01-CB-PTP-0001*
Construction Zone	Zone 15	Works Start Date	10/05/2013
LLDC Reference		Works Finish Date	16/08/2013

Co-ordinates of works	27430.096, 15640.257 (Olympic Grid)
Description of works (including risk to assets)	Removal of temporary bridge L01T, which is immediately adjacent to permanent bridge L01T over A106 Ruckholt Road. The work includes the removal and disposal of the temporary bridge, removal of temporary pier and remedial works to east and west abutment.
Dimension of works (incl. depth)	Total plan area of bridge including bridge is 45m x 10m x max depth of 6.0 m (footpath level to top of footbridge level)
Asset protection measures	• Temporary works design check carried out for crane loadings on pavement, lifting of bridge girders • Vehicle /Plant exclusion zone set up to prevent loadings in excess of pedestrian loadings on bridge F02P • As-built utility drawings, GIS & EMAPs consulted. • Cable detection survey completed. • Services and loading corridors marked on ground and protected from axle loadings greater than 9500kg with NAVI mats • Experienced supervisor in charge of excavation. • Validation reports consulted to establish extent of marker layer • Methodology adapted for risk of encountering marker layer and mitigation measures to prevent ground contamination incorporated into Activity Plans and Risk Assessments.

Documentation	Uploaded to BIW**	Comments (see Section C)†
Works location plan	✓	☐
Scope of works	✓	☐
LLDC GIS drawing – Utilities **Refer to Permit to Dig**	N/A	☐
– Third Party Assets **Refer to Permit to Dig**	N/A	☐
– Boreholes **Refer to Permit to Dig**	N/A	☐
Method statements and risk assessment LC402-LCI-L01-W-MST-0001 Outline Method Statement	✓	☐
Traffic / pedestrian management proposal	✓	☐
Piling risk assessment	N/A	☐
Asset protection measures * Refer to activity plans.	N/A	☐
Additional Information:		☐

* Joint inspection required with Principal Contractor before and after works ** Contractor to complete † Reviewer to complete

Earthworks above marker layer (m^3)	N/A
Earthworks below marker layer (m^3)	N/A
Additional Comments:	

SECTION B – EXISTING ASSETS *(To be completed by the contractor)*

Existing Assets within/adjacent to works boundary (see Section A)	Yes ~~/ No~~	Permit Revision	

I can confirm that the Utility owner has been notified and has reviewed and approved all RAMS within the works boundary. (*Please tick all relevant assets within the works boundary*)

Olympic Park Perimeter Fence	X	IP Gas	X	UKPN	✓
PLUG	X	BT Communications	X	District Heating/Cooling	X
EA Assets	X	COLT fire optics	X	Surface Water Drainage	X
Thames Water (foul)	X	Thames Water (potable / non potable)	X	Others (use additional comments section below)	✓

Above / below ground structures: *(state structure reference)*

I confirm that <u>all</u> known existing services in relation to attached up to date service drawings affected by / adjacent to work area will be marked out on site using the correct colour codes.	✓
I confirm that an independent pre work passive power and radio scan will be completed within the works boundary.	✓
I confirm a site briefing for all site staff by the contractor's nominated Responsible Person will take place before any works commence. Records to be signed by the work force.	✓
I understand my ongoing responsibilities in relation to this permit with regards to the LLDC Common Standard No.14 and HSG47.	✓
I confirm that protection measures for all assets including above ground structures affected by the works have been included in the RAMS detailed in Section A.	✓

Additional Comments: Unknown 'Comms' service to be confirmed

Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*

SECTION C – PERMIT APPROVAL *(To be completed by the LLDC reviewer)*

Prepared by	[redacted]	Authorised by	[redacted]
of Company	Atkins	of Company	Atkins
Date	09/05/2013	Date	09/05/2013
Accepted	Yes		

Conditions of acceptance / reason for non-acceptance (over and above those detailed in the guidance document):

- Please note conditions provided in Section 2.3 of the PTP Protocol ref: LC810-LTR-PWD-CM-REP-0001, paying particular attention to: the segregation of above and below marker layer materials; **Quality of Imported Fill submissions under Transformation Planning Condition LTD.1.14**; and validation works.
- Existing Marker Layer extent is provided in the site Consolidated Validation Reports (Stages 1-3) with elevations available in individual validation reports. **Marker Layer to be reinstated and tied-in with surrounding Marker Layers where placed.**
- Any works over and above those referenced in this permit and associated RAMS should be detailed under a new revision / supplementary permit to consider risks the site assets from excavation / loading and the impact on remediation cover systems.
- Any unbound fill materials (including type 1) must comply with the relevant Site Specific Remediation Specifications for these works as demonstrate by chemical testing place material or using source data. For imported materials, contractors are required to comply with: Facilities and their Legacy Transformation Planning Application, No. 07/90010/OUMODA, Condition LTD.1.14 'Quality of Imported Fill' via liaison with the Planning Decisions Team. Other 'slot-in' planning conditions may also apply.

Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*

SECTION D – CLOSEOUT INFORMATION *(to be completed by the contractor on completion of works)*

I confirm completion of works in accordance with the methods described in Sections A and B and the conditions described in Section C and the relevant guidance documents. On the basis of the following information and the attached supporting documents, we request that this application be formally closed.

Prepared by	[redacted]	Authorised by	[redacted]
of Company	BAM Nuttall	of Company (PC)	BAM Nuttall
Date	7th May 2014	Date	7th May 2014

D1: ASSET PROTECTION

Have Assets been damaged?	~~Yes /~~ No
If YES, provide details & rectification plan	

D2: COVER LAYER	**Reinstated**	**Altered**	**Omitted**
Marker Layer	N/A	~~Yes /~~ No	N/A
Human Health Separation Layer	N/A	~~Yes /~~ No	N/A
Comments or description of cover system reinstatement	No excavation was involved so no alterations or additions to existing marker layer areas		
Photo record of excavation and Marker Layer reinstatement	N/A; no change to marker layer		
As-Built drawings provided	N/A		

D3: EXCAVATED VOLUMES	**Above Marker Layer (m^3)**	**Below Marker Layer (m^3)**
Total cut	nil	nil
Cut volume retained (on site)		
Cut volume to Treatment Centre		
Cut volume sent off Olympic Park		

D4: FILL VOLUMES	**Above Marker (m^3)**	**Chemical Tests (no.)**	**Below Marker (m^3)**	**Chemical Tests (no.)**
Total fill	nil	nil	nil	nil
Site won fill (reused)				
Fill from Treatment Centre				
Fill from outside Olympic Park				

I confirm that all cut and fill volumes have been logged with the Principal Contractors materials management system for waste licensing purposes.	☐
I confirm that the site has been left in a satisfactory condition with services re-marked out as per LLDC Common Standard No.14 *(Attach photographic records)*	☐
I confirm that any excavations in roads have been suitably reinstated in line with the Specification for Highway Standards unless otherwise agreed with the Project Manager.	☐

Additional Comments:

SECTION E *(Application is closed by the LLDC Permitting Team following review of Section D and returned to Contractor)*

Prepared by	[redacted]	Authorised by	[redacted]
of Company	Atkins	of Company	Atkins
Date	13/05/2014	Date	13/05/2014
Accepted & Closed	Yes		

Comments or conditions on closure / reason for non-closure of application: N/A

Distribution: *Originating Team, Principal Contractor, LLDC Project Manager, LLDC Permitting Team.*

Appendix D. Site Specific Assessment Criteria (SSAC)

Contaminant	Unit	SSAC APPLICABLE TO PDZ15				British Sugar Sample
		6c Human Health Separation Layer	**7a Wet/Dry (AML) Controlled Waters**	**7a Dry (AML) Controlled Waters**	*Minimum Criteria Value*	
		CZ6c (MOL) SSRS Addendum No.1 [0241-ENW-NPK-CM-REP-0001]	CZ7a SSRS Addendum No. 1 (DCR-WYG-CM-C7a-XXX-XXX-E-4003, Table 2)	CZ7a SSRS Addendum No. 1 (DCR-WYG-CM-C7a-XXX-XXX-E-4003, Table 2)		(N06c-FVP059-079239)
Chromium VI	mg/kg	344	130	130	*130*	23.5
Arsenic (MS)	mg/kg	97.2	20	20	*20*	16.6
Cadmium (MS)	mg/kg	172	1	1	*1*	0.57
Chromium (MS)	mg/kg	344	130	130	*130*	23.5
Copper (MS)	mg/kg	1000000	135	135	*135*	27.9
Lead (MS)	mg/kg	616	450	450	*450*	83.2
Mercury (MS)	mg/kg	42.9	8	8	*8*	0.5
Nickel (MS)	mg/kg	618	50	50	*50*	19.3
Selenium (MS)	mg/kg	673	35	35	*35*	0.8
Zinc (MS)	mg/kg	1000000	200	200	*200*	91.8
Cyanide (Free)	mg/kg	17	36	36	*17*	0.6
Aliphatics >C5 C6	mg/kg	671000	14	14	*14*	0.3
Aliphatics >C6 C8	mg/kg	671000	35	35	*35*	0.3
Aliphatics >C8 C10	mg/kg	13400	8.2	8.2	*8.2*	5
Aliphatics >C10 C12	mg/kg	13400	42	42	*42*	5
Aliphatics >C12 C16	mg/kg	13400	430	291	*291*	5
Aliphatics >C16 C21	mg/kg	269000	50000	50000	*50000*	13
Aliphatics >C21 C35	mg/kg	269000	50000	50000	*50000*	71.3
Aromatics >C5 C7	mg/kg	156	0.05	0.05	*0.05*	0.01
Aromatics >C7 C8	mg/kg	391	7	7	*7*	0.01
Aromatics >C8 C10	mg/kg	739	13	13	*13*	5
Aromatics >C10 C12	mg/kg	5320	72	72	*72*	5
Aromatics >C12 C16	mg/kg	5160	330	330	*330*	5
Aromatics >C16 C21	mg/kg	4030	1978	1978	*1978*	5.71
Aromatics >C21 C35	mg/kg	4030	1978	1978	*1978*	63
Acenaphthene	mg/kg	7240	12	12	*12*	0.1
Acenaphthylene	mg/kg	7270	1	1	*1*	0.1
Anthracene	mg/kg	36700	2800	2800	*2800*	0.1
Benzo(a)anthracene	mg/kg	19.7	7.2	7.2	*7.2*	0.3
Benzo(a)pyrene	mg/kg	3.38	1.3	1.3	*1.3*	0.27
Benzo(b)fluoranthene	mg/kg	23.4	16	16	*16*	0.37
Benzo(g,h,i)perylene	mg/kg	3690	1970	1970	*1970*	0.23
Benzo(k)fluoranthene	mg/kg	34.4	16	16	*16*	0.11
Chrysene	mg/kg	29.5	32	32	*29.5*	0.3
Dibenzo(a,h)anthracene	mg/kg	3.53	1.3	1.3	*1.3*	0.1
Fluoranthene	mg/kg	4910	95	95	*95*	0.49
Fluorene	mg/kg	4860	2600	2600	*2600*	0.1
Indeno(1,2,3 cd)pyrene	mg/kg	13.9	16	16	*13.9*	0.23
Naphthalene	mg/kg	3840	5.6	5.6	*5.6*	0.1
Phenanthrene	mg/kg	3670	1970	1970	*1970*	0.18
Pyrene	mg/kg	3680	1500	1500	*1500*	0.45
Benzene	ug/kg	2240	50	50	*50*	6
Carbon Tetrachloride	ug/kg	251000	2100	2100	*2100*	6
Chloroform	ug/kg	1000000	90	90	*90*	6
1,2 Dichloroethane	ug/kg	648	10	10	*10*	6
Ethylbenzene	ug/kg	25900000	21000	21000	*21000*	6
Naphthalene	ug/kg	1000000	5600	5600	*5600*	32
1,1,1,2 Tetrachloroethane	ug/kg	144000	6600	6600	*6600*	6
1,1,2,2 Tetrachloroethane	ug/kg	338000	6600	6600	*6600*	6
Tetrachloroethene	ug/kg	178000	1500	1500	*1500*	32
Toluene	ug/kg	418000	7000	7000	*7000*	6
1,1,1 Trichloroethane	ug/kg	827000	15000	15000	*15000*	6
Trichloroethene	ug/kg	14700	170	170	*170*	6
Vinyl Chloride (LOW)	ug/kg	68.9	2	2	*2*	1.3
m and p Xylene	ug/kg	795000	9800	9800	*9800*	6
o Xylene	ug/kg	795000	9800	9800	*9800*	6
Xylenes	ug/kg	795000	9800	9800	*9800*	6
Total Phenols	mg/kg	1000000	50000	50000	*50000*	
%age asbestos in sample	%	0.001	0.001	0.001	*0.001*	0.001

Note: The above results were presented within the Import of Fill Submission Application Number 10/90090/AODODA. The results have been reproduced within this submittal in order to assess the suitability of the material usage within PDZ15.

Appendix E. Permits, Licences and Consents Schedule

BAM Nuttall management system

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Wildlife (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Cutting, topping or uprooting protected trees	Prior consent	Town and Country Planning Act 1990 (Tree preservation order)	Local Authority Planning Department	• Description of the works • Trees to be affected • Location plan	Allow up to 8 weeks	• No charge
Works affecting hedgerows	Prior consent	Hedgerow Regulations 1997	Local Authority Planning Department	• Description of the works • Hedgerow to be affected • Location plan	Allow up to 6 weeks	• No charge
Works affecting designated areas i.e. SSSIs, AONB	Prior consent	Wildlife and Countryside Act 1981 Habitat Regulations 1994 as amended Countryside and Rights of Way Act 200	Natural England Countryside Council for Wales	Generally covered by planning permissions if applicable however if works are likely to take place within a designated area such as a SSSI or AONB contact Natural England or Countryside Council for Wales prior to works commencing to identify consents requirements.		
Work in the vicinity of badger setts (generally within 30m or less).	Licence	Protection of Badgers Act 1981	Natural England Countryside Council for Wales	• Description of the works • Location plan • Method statement identifying mitigation measures	Natural England - allow 15 working days Countryside Council for Wales – allow 30 working days	• No charge

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Wildlife (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Closure and translocation of badger setts	Development licence	Protection of Badgers Act 1981	Natural England National Assembly for Wales	• Description of the works • Location plan • Planning permissions • Method statement to protect wildlife • Local planning authority statement • Legal statement identifying reason for the works • Surveys	Natural England – allow 30 working days National Assembly for Wales – allow 1 – 3 months may be longer for more complex projects	• No charges
Work affecting protected species (bats, great crested newts, dormice, otters, natter jack toads, etc.)	Development licence	Wildlife and Countryside Act 1981 Habitat Regulations 1994 as amended	Natural England Countryside Council for Wales National Assembly for Wales	• Description of the works • Location plan • Planning permissions • Method statement to protect wildlife • Local planning authority statement • Legal statement identifying reason for the works • Surveys	Natural England – allow 30 working days National Assembly for Wales – allow 1 – 3 months may be longer for more complex projects	• No charges
Works affecting pest bird species such as crow, feral pigeons, jackdaws, etc.	Licence	Wildlife and Countryside Act 1981	Natural England Countryside Council for Wales National Assembly for Wales	• Purpose of preserving public health and/or safety • Method for dealing with the birds – non-lethal and humane	Natural England – allow 15 working days Countryside Council for Wales/ National Assembly for Wales – allow 1 months	• No charges

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Wildlife (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Works affecting Water Voles, Red Squirrels and other protected species.	No development licences required however liaise with Natural England and Countryside Council for Wales.	Wildlife and Countryside Act 1981	Natural England Countryside Council for Wales	This should be covered by planning permissions however if works are likely to impact on protected species regulated under Wildlife and Countryside Act 1981 contact Natural England and Countryside Council for Wales prior to works commencing to identify mitigation measures as required. Should protected species regulated under the Wildlife and Countryside Act 1981 be discovered whilst on site stop work and seek advice from Natural England and Countryside Council for Wales.		N/A
Introducing fish into rivers, streams, lakes, ponds or tidal waters	Section 30 Fish Movement Licence	Salmon and Freshwater Fisheries Act 1975	Environment Agency	• Name and type of water • Type, number and size of fish	Allow up to 20 days (aim to process in 10 days)	• No charge
Removing fish from rivers, streams, lakes, ponds or tidal waters.	Fisheries Byelaw Consent	Salmon and Freshwater Fisheries Act 1975	Environment Agency	• Name and type of water • Removal method. • Type, number and size of fish	Allow up to 20 days (aim to process in 10 days)	• No charge

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Wildlife (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)

Treatment of Japanese knotweed on site	Prior consent	Wildlife and Countryside Act 1981
		
		Environmental Protection Act 1990
		
		Clean Air Act 1993
		
		Environmental Permitting (England & Wales) Regulations 2010
			Environment Agency and Local Authority Environmental Health	• Burning on site - exemption
				  • Location of exempt activity.
				  • D7 exemption under the Environmental Permitting Regulations 2010
				• Smoke control areas
				• Black smoke not permitted Check with Local Authority if open burning permitted at location of burn
					• Not specified but allow at least 5 working days	• No charge

Treatment of Japanese knotweed on site	Formal notification	Wildlife and Countryside Act 1981 Environmental Permitting (England & Wales) Regulations 2010	Environment Agency	Burial on site • Burial location to be notified	• One week prior to activity commencing	• No charge
	Prior consent	Wildlife and Countryside Act 1981 Water Resources Act 1991	Environment Agency	Use of herbicide near water (within 5m) • Location of area to be treatment • Type of herbicide to be used	• Two weeks prior works commencing	• No charge

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Waste (England and Wales)**

Site process	Consent, licence, environmental permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Movement and disposal of inert and non-hazardous waste	Waste transfer note	Environmental Protection Act 1990, Part II, S.34 Waste (England & Wales) Regulations 2011	Environment Agency	• Waste transfer notes are available from Office Services at Camberley and are provided by the environment department	N/A	N/A
Movement and disposal of hazardous waste	Consignment note	Hazardous Waste (England & Wales) Regulations 2005	Environment Agency	• Consignment notes can be downloaded from the BAM Nuttall intranet or EA website.	N/A	N/A
Storage and disposal of hazardous waste	Hazardous waste premises notification	Hazardous Waste (England & Wales) Regulations 2005	Environment Agency	• Information required for the application is detailed within BAM Nuttall procedure EP04	• Internet and telephone registration immediate. • Postal registration – week	• £18 internet registration • £23 telephone registration • £28 postal registration
Movement of waste off site	Waste carriers certificate	Control of pollution act 1989 Waste (England & Wales) Regulations 2011	Environment Agency	• Anyone carrying construction and demolition waste must be a registered waste carrier and/or broker • BAM Nuttall is a registered waste broker, Nuttall John Martin and Finchpalm are a both registered waste carriers	N/A	N/A

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Waste (England and Wales)**

Site process	Consent, licence, environmental permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Reuse and recovery of waste materials on site and off site.	Environmental Permit or Exemption	Environment Permitting (England & Wales) Regulations 2010	Environment Agency	• Location of permitted or exempt activity • Relevant permit or exemption under the Environmental Permitting Regulations 2010 • Material is suitable for use e.g. meets an engineering specification • Use of material would not cause harm to human health or the environment • Planning permission is in place (if applicable) • You have landowner/occupiers consent • BAM Nuttall procedure EP11 provide information on permitted / exempt activities	• From several days for exemptions to 3 / 4 months for standard / bespoke permits	• Exempt activities are not chargeable • Permitted activities are chargeable: <u>Standard</u> Application £2,000 Subsistence £2,000 Surrender £600 <u>Bespoke</u> For sensitive/high risk sites. Costs to be determined on case by case basis. Allow £10,000

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Waste (England and Wales)**

Site process	Consent, licence, environmental permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Keep, treat and dispose of waste on land	Environmental Permit or Exemption	Environment Permitting (England & Wales) Regulations 2010 Landfill (England & Wales) Regulations 2002 as amended (Town and Country Planning Act 1980)	Environment Agency	• Planning permission • Location of site • Type of waste to be disposed • Competent person (WAMITAB) • Fit & proper person • Financial provisions • Site working plan • Restoration plans/ surrender application	• From several days for exemptions to 3 / 4 months for standard / bespoke permits	• Exempt activities are not chargeable • Permitted activities are chargeable: <u>Standard</u> Application £2,000 Subsistence £2,000 Surrender £600 <u>Bespoke</u> For sensitive/high risk sites Costs to be determined on case by case basis • Allow £10,000
Treatment of contaminated land and water	Mobile treatment licence **Note:** BAM Nuttall holds a mobile treatment licence	Environment Permitting (England & Wales) Regulations 2010 (Waste Management Licensing Regulations 1994 as amended)	Environment Agency	• Deployment form • Remediation action plan • Competent person (WAMITAB)	• Allow at least 30 days	• Annual subsistence £2,500 (Technical Services) • WAMITAB training £1,000-£5,000
Treatment of aerosols using approved degassing equipment	T15 Exemption	Environment Permitting (England & Wales) Regulations 2010	Environment Agency	• Location of permitted or exempt activity • Contact environment advisor for assistance	• Maximum 1 week	• Exempt activities are not chargeable

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Water (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Any discharges to rivers, watercourses, other surface waters, groundwater, tidal waters or the sea. Discharging sewage effluent, trade effluent or contaminated water to land or water. Dewatering activities may require consent.	Water Discharge Activity Permit	Environmental Permitting (England & Wales) Regulations 2010 Water Resources Act 1991 Groundwater Regulations 1998	Environment Agency	• Estimate of volumes. • Types of water i.e. site runoff • Location plan indicating discharge point(s) • Fee	• Allow up to 120 days.	• Application Charge • Annual Charge – calculated on volume, content and receiving waters • Advertising fees
Abstracting or taking water from rivers, streams, lakes, ponds, tidal waters or groundwater. Constructing or altering any impounding works in rivers, streams, ponds or tidal waters. Dewatering activities may require a licence. **Note:** licence is not required for abstraction for any purpose of less than 20 cubic metres a day.	Abstraction licence • Full licence – applicable to most abstractions over 20m3 a day • Transfer licence – moving water from one location to another with no intervening use • Temporary licence – over 20m3 a day over a period of less than 28 consecutive days	Water Resources Act 1991	Environment Agency	• Estimate of volumes • What the abstract is for i.e. dust suppression • Location plan indicating abstraction point(s) • Locations if water transfer is taking place • Fee	• Full and transfer licences - allow up to 120 days • Temporary licences – allow 28 days	• Application Charge • Annual Charge – calculated on volume of water removed, seasonal factor and minimum subsistence charge • Advertising fees

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Water (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Temporary/permanent works over and in a main river. Works within 7-10m of a main river, note the distance may vary between EA regions. Raising ground levels in the floodplain beside a main river.	Flood defence consent (formerly known as land drainage consent/ works affecting watercourses consent)	Water Resources Act 1991 Land Drainage Act 1991 Local Byelaws	Environment Agency	• Description of the works • Location plan • Method statement • Fee	• Allow up to 60 days	• Fee - £50
Construction of a culvert or flow control structure (such as a weir) on any ordinary watercourse.	Flood defence consent (formerly known as land drainage consent/ works affecting watercourses consent)	Land Drainage Act 1991 Local Byelaws	Environment Agency	• Description of the works • Location plan • Method statement • Fee	• Allow up to 60 days	• Fee - £50
Works on flood defence structures	Flood defence consent	Local Byelaws	Environment Agency	• Description of the works • Location plan • Method statement	• Allow up to 60 days	• No charge
Works within a floodplain	Flood defence consent	Local Byelaws	Environment Agency	• Description of the works • Location plan • Method statement	• Allow up to 60 days	• No charge

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Water (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Construction works (temporary/permanent) on the sea bed/within tidal waters **Note:** if a Food and Environment Protection Act license (FEPA) is required it is more than likely that a Coastal Protection Act (CPA) consent is too. Therefore application form covers both. **Note**: **Dredging/ Marine works** Local Harbour Authorities may have delegated powers regulating dredging activities within harbour limits.	FEPA Licence	Food and Environment Protection Act 1985	DEFRA/Marine and Fishery Agency	• Description of the works • Location plan • Method statement • Fee	• Allow up to 120 days Note: may take up to 6 months if the site is located in an environmentally sensitive area	• Fee – variable depends on cost of projects • Administration Fee • Environmental Sensitivity Supplement
	CPA Consent / Harbour/ Port Authority Consent	Coastal Protection Act 1949 Local Harbour/ Port Authority Bi- Laws	DEFRA/Marine and Fishery Agency	• Description of the works • Location plan	• Allow up to 120 days	• CPA, No charge • May be required to advertise the works in local press etc • Plans deposited in public place • Harbour authority may have fees associated with activities under their jurisdiction
Disposal of dredging at sea. **Note:** Dredging disposed above high water spring regulated under waste management licensing regulations. Contact SEPA.	FEPA Licence	Food and Environment Protection Act 1985	DEFRA/Marine and Fishery Agency	• Description of the works • Location plan • Method statement • Fee	• Allow up to 8 weeks Note: may take up to 6 months if the site is located in an environmentally sensitive area	• Fee – variable depends on quantity to be deposited (between £1000 - £6000)

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Water (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Invasive works including excavations and structural works on foreshore and below mean high spring.	Poss ble Consent required	Landownership rights	Crown Estate	• Should be carried out by client.	• Should be carried out by client.	N/A
Installation and operation of a septic tank **Note:** check with Environment Agency prior to installation as consent may not be granted if installed in a groundwater source protection zone.	Water Discharge Activity Permit	Environmental Permitting (England & Wales) Regulations 2010 Water Resources Act 1991	Environment Agency	• Estimate of volumes. • Location plan indicating discharge point(s) • Fee	• Allow up to 120 days	• Application Charge • Annual Charge – calculated on volume, content and receiving waters • Advertising fees
Use of herbicides in or near water	Herbicide Authorisation	Control of Pesticides Regulations 1986 as amended (Food and Environment Protection Act 1985)	Environment Agency	• Location to be used at including grid reference • Information about the controlled waters • Reason for weed control • Herbicide to be used and method of application	• Allow 30 days	• No charge

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Water (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Removing fish from rivers, streams, lakes, ponds or tidal waters.	Fisheries Byelaw Consent	Salmon and Freshwater Fisheries Act 1975	Environment Agency	• Name and type of water • Removal method • Type, number and size of fish	• Allow up to 20 days (aim to process in 10 days)	• No charge
Introducing fish into rivers, streams, lakes, ponds or tidal waters	Section 30 Fish Movement Licence	Salmon and Freshwater Fisheries Act 1975	Environment Agency	• Name and type of water • Type, number and size of fish	• Allow up to 20 days (aim to process in 10 days)	• No charge
Boats navigating on certain rivers. (Non-tidal River Thames (from Cricklade to Teddington), River Nene, River Welland, River Glen, River Stour, River Ancholme, Great Ouse River, River Medway, Rye Harbour)	Navigation Registration and Licence	Anglian Water Act 1977, Southern Water Authority Acts 1982 and 1988, Harbour of Rye Revision Order 1976, Thames Conservancy Act 1932 to 1972	Environment Agency	• If works are to be carried out on the rivers identified within the site process box including the use of boats for safety or transportation. Contact the Environment Agency to confirm licence requirements.		

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Nuisance (England and Wales)**

Site process	Consent, licence, environmental permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
Managing noise and vibration levels	Section 61 consent	Control of Pollution Act 1974	Local Authority Environmental Health	• Works to be carried out. • Method of works • Type of plant • Control measures to minimise noise • Predicted noise levels	• Allow up to 21 days	• No charge • Noise monitoring equipment (hire/purchase costs)/ consultant to undertake noise monitoring to ensure compliance with consent
Crushing and screening operations	Authorisation to operate a part B prescribed process (Classed as an Environmental Permit)	Environmental Permitting Regulations (England & Wales) 2010 Pollution Prevention and Control (England & Wales) Regulations 2000	Local Authority Environmental Health	• The subcontractor operating the crushing and screening plant will hold the authorisation • Ensure that site obtains a copy of the authorisation and is aware of the requirements • BAM Nuttall environment procedure EP12	N/A	N/A
Manufacturing of aggregates and soils from demolition, construction, tunnelling and excavation wastes or waste ash, slag, clinker or rock, e.g. screening of soils.	Environmental Permit or Exemption	Environmental Permitting Regulations 2010	Environment Agency	• Screening and crushing activities to manufacture roadstone, aggregate, soil or soil substitutes • Depending on the quantity and type of material being processed different quantities may be produced under permit or exemption • Refer to BAM Nuttall environment procedure EP12	• From several days for exemptions up to 3 months for standard permits and up to 4 months for bespoke permits	• Exempt activities are not chargeable • Permitted activities are chargeable: <u>Standard</u> Application £2,000 Subsistence £2,000 Surrender £600 <u>Bespoke</u> For sensitive/high risk sites. Costs to be determined on case by case basis. Allow £10,000

Environment guidance EG21: Register of environmental consents, licences and permissions

(This guidance note is applicable to activities carried out in England and Wales). **Archaeology (England and Wales)**

Site process	Consent, licence, permit	Controlling regulation	Issuing Authority	Application Process		
				Information	Approval period	Indicative Cost (2010/11)
				Note: works affecting buildings or structures of archaeological interest or those within conservation areas is generally covered by planning permission.		
All works affecting a scheduled monument or the ground surrounding it.	Scheduled monument consent	Town and Country Planning Act 1990 Ancient monuments and archaeological areas Act 1979	Local Planning Authority	• Location plan • Detailed drawings • Details of the proposed works • Planning permission if applicable	Allow 8 weeks	• No charge
Demolition or alteration of a listed building and historic structures within its grounds.	Listed building consent	Town & Country Planning Act 1990 Planning (Listed Buildings and Conservation Areas) Act 1990	Local Planning Authority	• Location plan • Detailed drawings • Details of the proposed works • Planning permission if applicable.	Allow 8 weeks	• No charge
Demolition of an unlisted building in a conservation area.	Conservation area consent	Town & Country Planning Act 1990 Planning (Listed Buildings and Conservation Areas) Act 1990	Local Planning Authority	• Location plan • Detailed drawings • Details of the proposed works • Planning permission if applicable	Allow 8 weeks	• No charge

Appendix F. Screening Tables of chemical Results against SSAC

Sample Name	PDZ	Sample Depth	Date Sampled	Easting	Northing	Elevation	Description	Visual / Olfactory Signs of Contamination
CSLT-15-02	PDZ15	0.2	17/12/2012	27175.37	16020.31	7.334	grey brown loamy clay, waterlogged	None
CSLT-15-03	PDZ15	0.2	17/12/2012	27144.46	15980.76	7.558	grey brown loamy clay, waterlogged, gravel	None
CSLT-15-06	PDZ15	0.2	17/12/2012	27202.87	16000.95	7.57	grey brown loamy clay, waterlogged, small pieces of brick	None
CSLT-15-07	PDZ15	0.2	17/12/2012	27225.69	15985.03	7.501	grey brown loamy clay, waterlogged, small pieces of brick	None
CSLT-15-08	PDZ15	0.2	17/12/2012	27197	15943.94	7.471	grey brown loamy clay, , small pieces of brick	None
CSLT-15-09	PDZ15	0.2	17/12/2012	27174.29	15959.92	7.387	grey brown loamy clay, brick and bitumen	None
CSLT-15-10	PDZ15	0.2	17/12/2012	27199.88	15972.62	7.514	grey brown loamy clay, waterlogged, small pieces of brick	None
CSLT-15-12	PDZ15	0.2	17/12/2012	27276.32	15949.92	7.467	sandy clay loam, brick and gravel pieces	None
CSLT-15-13	PDZ15	0.2	17/12/2012	27247.46	15908.79	7.576	sandy clay loam, brick and gravel pieces	None
CSLT-15-15	PDZ15	0.2	17/12/2012	27256.07	15933.09	7.409	sandy clay loam, brick and gravel pieces	None
CSLT-15-32	PDZ15	0.2	17/12/2012	27114.8	15930.28	7.614	sandy clay loam, brick and gravel pieces	None
CSLT-15-33	PDZ15	0.2	17/12/2012	27084.7	15890.65	8.163	sandy clay loam, brick and gravel pieces, larger concrete fragments	None
CSLT-15-36	PDZ15	0.2	17/12/2012	27141.18	15912.34	7.443	sandy clay loam, brick and gravel pieces	None
CSLT-15-37	PDZ15	0.2	17/12/2012	27163.88	15896.64	7.611	sandy clay loam, brick and gravel pieces	None
CSLT-15-38	PDZ15	0.2	17/12/2012	27135.23	15855.41	8.234	sandy clay loam, brick and gravel pieces	None
CSLT-15-39	PDZ15	0.2	17/12/2012	27112.52	15871.34	8.014	sandy clay loam, brick and gravel pieces	None
CSLT-15-40	PDZ15	0.2	17/12/2012	27140.49	15887.26	7.62	sandy clay loam, brick and gravel pieces	None
CSLT-15-42	PDZ15	0.2	17/12/2012	27212.81	15855.47	7.884	sandy clay loam, brick and gravel pieces	None
CSLT-15-43	PDZ15	0.2	17/12/2012	27185.92	15820.17	8.52	sandy clay loam, brick and gravel pieces	None
CSLT-15-45	PDZ15	0.2	17/12/2012	27188.7	15848.61	8.139	sandy clay loam, brick and gravel pieces and concrete fragments	None
CSLT-15-01	PDZ15	0.1	15/01/2013	27152.39	16036.2	7.153	sandy silty clay, with rock and brick fragments	None
CSLT-15-35	PDZ15	0.2	15/01/2013	27090.19	15920.71	7.606	sandy silty clay, with large to medium rock and brick fragments	None
CSLT-15-31	PDZ15	0.1	15/01/2013	27090.47	15947.48	7.517	sandy silty clay, with rock and brick fragments	None
CSLT-15-34	PDZ15	0.1	15/01/2013	27061.96	15906.54	7.544	sandy clay loam, small gravel and brick	None
CSLT-15-63	PDZ15	0.1	15/01/2013	27039.69	15891.23	7.616	sandy clay loam, small gravel and brick	None
CSLT-15-64	PDZ15	0.2	15/01/2013	27054.78	15865.76	7.592	sandy clay loam, small gravel and brick	None
CSLT-15-61	PDZ15	0.2	15/01/2013	27070.3	15843.89	7.6	sandy clay loam, gravel and brick	None
CSLT-15-65	PDZ15	0.3	15/01/2013	27083.2	15815.16	7.696	sandy clay loam, gravel and brick	None
CSLT-15-67	PDZ15	0.2	15/01/2013	27118.42	15814.72	7.866	sandy, silty clay, gravel and brick	None
CSLT-15-66	PDZ15	0.3	15/01/2013	27100.88	15801.92	7.647	sandy silty clay, with rock and brick fragments	None
CSLT-15-68	PDZ15	0.2	15/01/2013	27157.24	15797.05	8.203	sandy, silty clay, gravel and brick	None
CSLT-15-69	PDZ15	0.2	17/01/2013	27180.59	15787.76	8.494	sandy, silty clay, gravel and brick	None
CSLT-15-72	PDZ15	0.2	17/01/2013	27177.04	15827.48	8.441	sandy, silty clay, gravel and brick	None
CSLT-15-73	PDZ15	0.2	17/01/2013	27214.07	15844.6	8.192	sandy, silty clay, gravel and brick	None
CSLT-15-78	PDZ15	0.2	05/02/2013	27274.49	15949.99	7.567	sandy clay loam, small gravel and brick and concrete	None
CSLT-15-76	PDZ15	0.2	05/02/2013	27277.42	15952.29	7.491	sandy clay loam, small gravel and brick and concrete	None
CSLT-15-77	PDZ15	0.2	05/02/2013	27277.14	15947.88	7.575	sandy clay loam, small gravel and brick	None
CSLT-15-16	PDZ15	0.2	05/02/2013	27303.91	15930.48	7.611	sandy clay loam, small gravel and brick	None
CSLT-15-20	PDZ15	0.2	05/02/2013	27300.89	15901.97	7.652	sandy clay loam, small gravel and brick and asphalt	None
CSLT-15-17	PDZ15	0.2	05/02/2013	27326.61	15914.63	8.162	sandy clay loam, small gravel and brick and asphalt	None
CSLT-15-19	PDZ15	0.2	05/02/2013	27275.35	15889.56	7.597	sandy clay loam, frequent small gravel and brick	None
CSLT-15-18	PDZ15	0.2	05/02/2013	27291.22	15878.29	7.506	sandy clay loam, small gravel and brick	None
CSLT-15-47	PDZ15	0.2	05/02/2013	27268.06	15829.26	7.859	sandy clay loam, small gravel and brick	None
CSLT-15-46	PDZ15	0.2	05/02/2013	27242.03	15841.77	8.169	sandy clay loam, small gravel and brick	None
CSLT-15-52	PDZ15	0.2	12/02/2013	27312.22	15791.82	8.035	sandy, silty clay, small to large gravel and brick	None
CSLT-15-53	PDZ15	0.2	12/02/2013	27287.34	15750.98	7.961	sandy, silty clay, gravel and brick, asphalt	None
CSLT-15-54	PDZ15	0.2	12/02/2013	27264.06	15765.67	8.226	sandy, silty clay, gravel and brick, asphalt	None
CSLT-15-55	PDZ15	0.2	12/02/2013	27289.72	15778.24	8.208	sandy, silty clay, gravel and brick, asphalt	None
CSLT-15-80	PDZ15	0.2	12/02/2013	27295.27	15829.12	7.861	sandy, silty clay, gravel and brick	None
CSLT-15-81	PDZ15	0.2	12/02/2013	27319.62	15815.77	7.568	sandy, silty clay, gravel and brick	None
CSLT-15-79	PDZ15	0.2	12/02/2013	27262.08	15793.62	8.402	sandy, clay loam, gravel and brick	None
CSLT-15-50	PDZ15	0.2	12/02/2013	27239.4	15813.43	8.16	sandy, clay loam, gravel and brick	None
CSLT-15-70	PDZ15	0.2	12/02/2013	27287.06	15926.58	7.74	sandy, silty clay, gravel and brick	None
CSLT-15-75	PDZ15	0.2	12/02/2013	27203.86	15777.81	8.289	sandy, silty clay, small to large gravel and brick	None
CSLT-15-48	PDZ15	0.2	12/02/2013	27234.72	15786.18	8.263	sandy, clay loam, gravel and brick	None
CSLT-15-49	PDZ15	0.2	12/02/2013	27213.5	15800.93	8.383	sandy, silty clay, small to large gravel and brick	None
cslt-15-21	PDZ15	0.1	15/03/2013	27354.37	15895.33	7.253	sandy, clay loam, gravel and brick	None
cslt-15-22	PDZ15	0.1	15/03/2013	27377.14	15879.46	7.125	sandy, clay loam, gravel and brick	None
cslt-15-23	PDZ15	0.1	15/03/2013	27348.59	15838.37	7.365	sandy, clay loam, gravel, asphalt and brick	None
cslt-15-24	PDZ15	0.1	15/03/2013	27325.74	15854.27	7.514	sandy, clay loam, gravel, asphalt and brick	None
cslt-15-25	PDZ15	0.1	15/03/2013	27351.48	15866.88	7.345	sandy, clay loam, gravel and brick	None
cslt-15-26	PDZ15	0.1	15/03/2013	27404.96	15860.02	6.967	sandy, silty clay, gravel and brick	None
cslt-15-27	PDZ15	0.1	15/03/2013	27427.67	15844.16	6.822	sandy, silty clay, gravel, concrete and brick	None
cslt-15-82	PDZ15	0.1	15/03/2013	27363.89	15918.42	7.132	sandy, clay loam, gravel and brick	None
cslt-15-83	PDZ15	0.1	15/03/2013	27399.06	15888.16	6.961	sandy, silty clay, gravel, concrete and brick	None
cslt-15-28	PDZ15	0.1	19/03/2013	27399.09	15803.15	7.105	sandy, clay loam, large concrete gravel and brick, waterlogged	None
cslt-15-29	PDZ15	0.1	19/03/2013	27376.28	15819.04	7.25	sandy, clay loam, large concrete gravel and brick, waterlogged	None
cslt-15-30	PDZ15	0.1	19/03/2013	27402.01	15831.63	7.046	sandy, clay loam, asphalt, gravel and brick, waterlogged	None
cslt-15-56	PDZ15	0.1	19/03/2013	27410.4	15752.76	7.194	sandy, clay loam, gravel and brick, waterlogged	None
cslt-15-57	PDZ15	0.1	19/03/2013	27417.42	15725.91	7.144	sandy, clay loam, gravel and brick, waterlogged	None
cslt-15-58	PDZ15	0.1	19/03/2013	27369.07	15713.17	7.474	sandy, silty clay, gravel, concrete and brick, waterlogged	None
cslt-15-59	PDZ15	0.1	19/03/2013	27361.95	15739.98	7.495	sandy, silty clay, gravel, concrete and brick, waterlogged	None
cslt-15-60	PDZ15	0.1	19/03/2013	27389.7	15732.94	7.306	sandy, silty clay, gravel, concrete and brick, waterlogged	None
cslt-15-11	PDZ15	0.1	19/03/2013	27253.36	15965.75	7.473	sandy, clay loam, asphalt, gravel and brick, waterlogged	None
cslt-15-14	PDZ15	0.1	19/03/2013	27224.76	15924.74	7.693	sandy, clay loam, gravel and brick, waterlogged	None
cslt-15-41	PDZ15	0.1	19/03/2013	27191.42	15877	7.952	sandy, clay loam, large concrete gravel and brick, waterlogged	None
cslt-15-44	PDZ15	0.1	19/03/2013	27162.97	15836.11	8.235	sandy, clay loam, gravel and brick, waterlogged	None
cslt-15-84	PDZ15	0.1	19/03/2013	27326.6	15743.14	7.693	sandy, clay loam, gravel and brick,	None
cslt-15-85	PDZ15	0.1	19/03/2013	27326.6	15704.15	7.748	sandy, clay loam, gravel, concrete and brick, waterlogged	None
cslt-15-86	PDZ15	0.1	19/03/2013	27356.49	15786.16	7.434	sandy, clay loam, gravel and brick, wire	None
cslt-15-87	PDZ15	0.1	19/03/2013	27381.21	15783.17	7.301	sandy, clay loam, gravel and brick, waterlogged	None
cslt-15-88	PDZ15	0.1	19/03/2013	27423.49	15822.08	6.938	sandy, silty clay, gravel, concrete and brick	None
cslt-15-89	PDZ15	0.1	19/03/2013	27376.29	15848.78	7.22	sandy, clay loam, asphalt, gravel and brick, waterlogged	None
cslt-15-90	PDZ15	0.1	19/03/2013	27420.76	15875.39	6.857	sandy, clay loam, asphalt, gravel and brick, waterlogged	None
cslt-15-91	PDZ15	0.1	19/03/2013	27403.6	15703.59	7.289	sandy, clay loam, terram, gravel and brick, waterlogged	None
cslt-15-92	PDZ15	0.1	19/03/2013	27367.55	15689.36	7.591	sandy, clay loam, asphalt, gravel and brick,	None
cslt-15-93	PDZ15	0.1	23/05/2013	27253.82	15726.63	7.999	sandy, clay loam, gravel and brick,	None
cslt-15-94	PDZ15	0.1	23/05/2013	27242.41	15732.78	8.096	sandy, clay loam, gravel and brick,	None
cslt-15-95	PDZ15	0.1	23/05/2013	27208.61	15744.18	8.199	sandy, clay loam, gravel and brick,	None
cslt-15-96	PDZ15	0.1	29/05/2013	27449.88	15723.47	6.628	sandy, clay loam, gravel and brick,	None
cslt-15-97	PDZ15	0.1	11/06/2013	27452.23	15717.89	6.712	sandy, clay loam, frequent gravel and brick,	None
cslt-15-98	PDZ15	0.1	11/06/2013	27426.22	15774.57	6.805	sandy, clay loam, frequent gravel, asphalt and brick,	None
cslt-15-99	PDZ15	0.1	11/06/2013	27323.61	15959.89	6.951	sandy, clay loam, frequent gravel and brick,	None
cslt-15-100	PDZ15	0.1	11/06/2013	27283.5	15987.62	6.965	sandy, clay loam, frequent gravel and brick,	None
cslt-15-101	PDZ15	0.1	11/06/2013	27216.9	16035.16	6.875	sandy, clay loam, frequent gravel, asphalt and brick,	None
cslt-15-102	PDZ15	0.1	11/06/2013	27024.86	15874.48	7.083	sandy, clay loam, frequent gravel, asphalt and brick,	None
cslt-15-103	PDZ15	0.3	11/06/2013	27073.36	15813.73	7.263	sandy, clay loam, frequent gravel and brick,	None
cslt-15-118	PDZ15	0.4	19/06/2013	27208.86	15760.48	8.668	sandy, clay loam, frequent gravel and brick,	None
cslt-16-104	PDZ15	0.5	19/06/2013	27193.41	15769.48	8.451	sandy, clay loam, frequent cobbles	None
cslt-17-105	PDZ15	0.4	19/06/2013	27181.25	15762.99	8.127	sandy, clay loam, frequent gravel, asphalt and brick,	None
cslt-18-106	PDZ15	0.3	19/06/2013	27159.18	15757.11	7.616	sandy, clay loam, gravel and brick,	None
cslt-19-107	PDZ15	0.4	19/06/2013	27158.68	15771.71	7.895	sandy, clay loam, gravel and brick,	None
cslt-20-108	PDZ15	0.3	19/06/2013	27162.83	15786.52	8.243	sandy, clay loam, gravel and brick,	None
cslt-21-109	PDZ15	0.3	19/06/2013	27143.33	15800.66	8.209	sandy, clay loam, gravel and brick,	None
cslt-22-110	PDZ15	0.3	19/06/2013	27131.75	15789.23	7.955	sandy, clay loam, gravel and brick,	None
cslt-23-111	PDZ15	0.1	19/06/2013	27106.04	15792.66	7.543	sandy, clay loam, gravel and brick,	None
cslt-24-112	PDZ15	0.2	19/06/2013	27104.04	15810.85	7.86	sandy, clay loam, gravel and brick,	None
cslt-25-113	PDZ15	0.4	19/06/2013	27076.44	15816.81	7.491	sandy, clay loam, gravel and brick,	None
cslt-26-114	PDZ15	0.2	19/06/2013	27051.07	15839.35	7.337	sandy, clay loam, gravel and brick,	None
cslt-27-115	PDZ15	0.3	19/06/2013	27055.84	15861.53	8.012	sandy, clay loam, gravel and brick,	None
cslt-28-116	PDZ15	0.1	19/06/2013	27311.88	15967.58	6.981	sandy, clay loam, frequent gravel, asphalt and brick,	None
cslt-29-117	PDZ15	0.1	19/06/2013	27332.22	15953.47	7.018	sandy loam, frequent gravel, concrete and brick,	None

Location Reference	Sample Reference	Sample Depth (m)	Sample Date	Lab Re	Asbestos by we ght (%)	Cyan de (f ee)	A sen c	Cadm um	Me cu y	N ckel	Lead	Selen um	Ch om um (hexavalent)
n					112	112	112	112	112	112	112	112	112
No > SSAC HH					0	0	1	0	0	0	7	0	0
No > SSAC CW					0	0	16	2	0	1	10	0	0
Max					0 001	0 7	150	1 1	4 1	72	1200	0 91	0 5
M n					<0 001	<0 5	<6 1	0 1	<0 1	9 3	<28	<0 2	<0 5
Mean					0 00	0 50	15 88	0 20	0 63	20 45	217 40	0 33	0 50
SSAC HH					0 001	1 70E 01	9 72E 01	1 72E 02	4 29E 01	6 18E 02	6 16E 02	6 73E 02	3 44E 02
SSAC CW							2 00E 01	1 00E 00	8 00E 00	5 00E 01	4 50E 02	3 50E 01	1 30E 02
US95					0 00	0 50	8 40	0 22	0 90	2 85	5 2 00	0 79	0 50
				Unit	%	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}
CSLT-15-02	PDZ15	0.2	17/12/2012	AI09813	0.001	0.5	9	0.14	0.55	15	110	0 55	0.5
CSLT-15-03	PDZ15	0.2	17/12/2012	AI09814	0.001	0.5	11	0.2	0.36	15	190	0 35	0.5
CSLT-15-06	PDZ15	0.2	17/12/2012	AI09815	0.001	0.5	21	0.19	1.1	24	140	0 69	0.5
CSLT-15-07	PDZ15	0.2	17/12/2012	AI09816	0.001	0.5	9.6	0.14	0.55	18	120	0 49	0.5
CSLT-15-08	PDZ15	0.2	17/12/2012	AI09817	0.001	0.5	13	0.16	0.49	45	210	0 68	0.5
CSLT-15-09	PDZ15	0.2	17/12/2012	AI09818	0.001	0.5	9.8	0.19	0.93	18	200	0 84	0.5
CSLT-15-10	PDZ15	0.2	17/12/2012	AI09819	0.001	0.5	8.8	0.13	0.45	15	120	0 55	0.5
CSLT-15-12	PDZ15	0.2	17/12/2012	AI09820	0.001	0.5	9.5	0.21	0.62	18	830	0 55	0.5
CSLT-15-13	PDZ15	0.2	17/12/2012	AI09821	0.001	0.5	7.7	0.12	0.27	16	94	0 67	0.5
CSLT-15-15	PDZ15	0.2	17/12/2012	AI09822	0.001	0.5	13	0.19	0.58	21	240	0 62	0.5
CSLT-15-32	PDZ15	0.2	17/12/2012	AI09823	0.001	0.5	8.2	0.18	0.43	15	190	0 44	0.5
CSLT-15-33	PDZ15	0.2	17/12/2012	AI09824	0.001	0.5	9.8	0.15	0.39	13	95	0 47	0.5
CSLT-15-36	PDZ15	0.2	17/12/2012	AI09825	0.001	0.5	8.4	0.12	0.5	17	130	0 57	0.5
CSLT-15-37	PDZ15	0.2	17/12/2012	AI09826	0.001	0.5	19	0.12	0.42	20	110	0 47	0.5
CSLT-15-38	PDZ15	0.2	17/12/2012	AI09827	0.001	0.5	15	0.11	0.94	21	120	0 91	0.5
CSLT-15-39	PDZ15	0.2	17/12/2012	AI09828	0.001	0.7	15	0.11	0.36	16	120	0 56	0.5
CSLT-15-40	PDZ15	0.2	17/12/2012	AI09829	0.001	0.5	14	0.12	0.43	18	110	0 62	0.5
CSLT-15-42	PDZ15	0.2	17/12/2012	AI09830	0.001	0.5	10	0.11	0.24	9.3	91	0.4	0.5
CSLT-15-43	PDZ15	0.2	17/12/2012	AI09831	0.001	0.5	15	0.15	0.48	18	560	0 64	0.5
CSLT-15-45	PDZ15	0.2	17/12/2012	AI09832	0.001	0.5	15	0.11	0.73	19	240	0.6	0.5
CSLT-15-01	PDZ15	0.1	15/01/2013	AI15921	0.001	0.5	13	0.11	0.6	22	190	0 67	0.5
CSLT-15-35	PDZ15	0.2	15/01/2013	AI15924	0.001	0.5	11	0.17	0.6	19	150	0 78	0.5
CSLT-15-31	PDZ15	0.1	15/01/2013	AI15925	0.001	0.5	150	0.11	0.47	18	130	0.4	0.5
CSLT-15-34	PDZ15	0.1	15/01/2013	AI15926	0.001	0.5	10	0.33	0.31	14	140	0 41	0.5
CSLT-15-63	PDZ15	0.1	15/01/2013	AI15927	0.001	0.5	9.6	0.13	0.3	18	130	0 59	0.5
CSLT-15-64	PDZ15	0.2	15/01/2013	AI15928	0.001	0.5	15	0.1	0.39	19	120	0 79	0.5
CSLT-15-61	PDZ15	0.2	15/01/2013	AI15929	0.001	0.5	9.5	0.12	0.45	18	120	0 71	0.5
CSLT-15-65	PDZ15	0.3	15/01/2013	AI15930	0.001	0.5	7.9	0.22	0.1	13	28	0.2	0.5
CSLT-15-67	PDZ15	0.2	15/01/2013	AI15931	0.001	0.5	11	0.13	0.44	21	110	0 68	0.5
CSLT-15-66	PDZ15	0.3	15/01/2013	AI15932	0.001	0.5	6.1	0.12	0.12	11	39	0.2	0.5
CSLT-15-68	PDZ15	0.2	15/01/2013	AI15933	0.001	0.5	8.1	0.1	0.49	15	99	0 33	0.5
CSLT-15-69	PDZ15	0.2	17/01/2013	AI17236	0.001	0.5	8.5	0.11	0.23	16	93	0.2	0.5
CSLT-15-72	PDZ15	0.2	17/01/2013	AI17237	0.001	0.5	12	0.1	0.56	17	170	0 51	0.5
CSLT-15-73	PDZ15	0.2	17/01/2013	AI17238	0.001	0.5	10	0.1	0.56	16	130	0 41	0.5
CSLT-15-78	PDZ15	0.2	05/02/2013	AI25471	0.001	0.5	6.4	0.11	0.38	16	130	0.2	0.5
CSLT-15-76	PDZ15	0.2	05/02/2013	AI25472	0.001	0.5	6.8	0.1	0.35	15	150	0 27	0.5
CSLT-15-77	PDZ15	0.2	05/02/2013	AI25473	0.001	0.5	6.7	0.14	0.45	16	150	0.2	0.5
CSLT-15-16	PDZ15	0.2	05/02/2013	AI25474	0.001	0.5	7.3	0.56	0.33	18	140	0.2	0.5
CSLT-15-20	PDZ15	0.2	05/02/2013	AI25475	0.001	0.5	8.1	0.16	0.35	18	150	0 24	0.5
CSLT-15-17	PDZ15	0.2	05/02/2013	AI25476	0.001	0.5	11	0.19	0.36	19	170	0.3	0.5
CSLT-15-19	PDZ15	0.2	05/02/2013	AI25477	0.001	0.5	8.5	0.17	0.31	17	130	0.2	0.5
CSLT-15-18	PDZ15	0.2	05/02/2013	AI25478	0.001	0.5	6.8	0.12	0.32	14	130	0 72	0.5
CSLT-15-47	PDZ15	0.2	05/02/2013	AI25479	0.001	0.5	9.7	0.13	0.37	18	230	0 46	0.5
CSLT-15-46	PDZ15	0.2	05/02/2013	AI25480	0.001	0.5	15	0.13	0.48	20	660	0 45	0.5
CSLT-15-52	PDZ15	0.2	12/02/2013	AI29297	0.001	0.5	14	0.16	0.36	16	290	0.2	0.5
CSLT-15-53	PDZ15	0.2	12/02/2013	AI29298	0.001	0.5	12	0.16	0.41	18	160	0.2	0.5
CSLT-15-54	PDZ15	0.2	12/02/2013	AI29299	0.001	0.5	11	0.11	0.36	16	150	0.2	0.5
CSLT-15-55	PDZ15	0.2	12/02/2013	AI29300	0.001	0.5	14	0.19	0.54	21	190	0 63	0.5
CSLT-15-80	PDZ15	0.2	12/02/2013	AI29301	0.001	0.5	8.8	0.1	0.21	13	87	0.2	0.5
CSLT-15-81	PDZ15	0.2	12/02/2013	AI29302	0.001	0.5	12	0.13	0.31	17	130	0.2	0.5
CSLT-15-79	PDZ15	0.2	12/02/2013	AI29303	0.001	0.5	12	0.18	0.46	19	220	0.2	0.5
CSLT-15-50	PDZ15	0.2	12/02/2013	AI29304	0.001	0.5	10	0.16	0.38	16	130	0.2	0.5
CSLT-15-70	PDZ15	0.2	12/02/2013	AI29305	0.001	0.5	13	0.17	0.46	19	130	0 29	0.5
CSLT-15-75	PDZ15	0.2	12/02/2013	AI29306	0.001	0.5	13	0.16	0.47	17	160	0.2	0.5
CSLT-15-48	PDZ15	0.2	12/02/2013	AI29307	0.001	0.5	13	0.17	0.42	18	160	0 23	0.5
CSLT-15-49	PDZ15	0.2	12/02/2013	AI29308	0.001	0.5	27	0.22	0.43	18	150	0.2	0.5
cs t-15-21	PDZ15	0.1	19/03/2013	AI45004	0.001	0.5	12	0.14	0.43	19	220	0.2	0.5
cs t-15-22	PDZ15	0.1	19/03/2013	AI45005	0.001	0.5	16	0.18	0.6	22	240	0.2	0.5
cs t-15-23	PDZ15	0.1	19/03/2013	AI45006	0.001	0.5	23	0.61	0.48	27	250	0.2	0.5
cs t-15-24	PDZ15	0.1	19/03/2013	AI45007	0.001	0.5	16	0.13	0.35	17	160	0.2	0.5
cs t-15-25	PDZ15	0.1	19/03/2013	AI45008	0.001	0.5	17	0.11	0.67	24	160	0 37	0.5
cs t-15-26	PDZ15	0.1	19/03/2013	AI45009	0.001	0.5	14	0.14	0.62	22	150	0 36	0.5
cs t-15-27	PDZ15	0.1	19/03/2013	AI45010	0.001	0.5	22	0.21	0.52	29	200	0 53	0.5
cs t-15-82	PDZ15	0.1	19/03/2013	AI45011	0.001	0.5	17	0.15	0.57	21	180	0 45	0.5
cs t-15-83	PDZ15	0.1	19/03/2013	AI45012	0.001	0.5	24	0.29	0.68	72	240	0 25	0.5
cs t-15-28	PDZ15	0.1	19/03/2013	AI45015	0.001	0.5	17	0.1	0.46	20	170	0 25	0.5
cs t-15-29	PDZ15	0.1	19/03/2013	AI45016	0.001	0.5	12	0.1	0.35	21	160	0.2	0.5
cs t-15-30	PDZ15	0.1	19/03/2013	AI45017	0.001	0.5	18	0.1	0.4	23	150	0.2	0.5
cs t-15-56	PDZ15	0.1	19/03/2013	AI45018	0.001	0.5	14	0.1	0.42	21	170	0.2	0.5
cs t-15-57	PDZ15	0.1	19/03/2013	AI45019	0.001	0.5	17	0.15	0.58	25	250	0.2	0.5
cs t-15-58	PDZ15	0.1	19/03/2013	AI45020	0.001	0.5	18	0.15	0.53	31	280	0.2	0.5
cs t-15-59	PDZ15	0.1	19/03/2013	AI45021	0.001	0.5	12	1.1	0.43	26	140	0.2	0.5
cs t-15-60	PDZ15	0.1	19/03/2013	AI45022	0.001	0.5	13	0.51	0.35	22	150	0.2	0.5
cs t-15-11	PDZ15	0.1	19/03/2013	AI45023	0.001	0.5	15	0.14	0.24	16	86	0.2	0.5
cs t-15-14	PDZ15	0.1	19/03/2013	AI45024	0.001	0.5	19	0.21	0.26	18	95	0.2	0.5
cs t-15-41	PDZ15	0.1	19/03/2013	AI45025	0.001	0.5	16	0.19	0.4	25	140	0.2	0.5
cs t-15-44	PDZ15	0.1	19/03/2013	AI45026	0.001	0.5	16	0.19	0.53	25	200	0.2	0.5
cs t-15-84	PDZ15	0.1	19/03/2013	AI45027	0.001	0.5	19	0.36	0.49	23	210	0.2	0.5
cs t-15-85	PDZ15	0.1	19/03/2013	AI45028	0.001	0.5	13	0.12	0.33	18	120	0.2	0.5
cs t-15-86	PDZ15	0.1	19/03/2013	AI45029	0.001	0.5	11	0.13	0.32	19	130	0.2	0.5
cs t-15-87	PDZ15	0.1	19/03/2013	AI45030	0.001	0.5	23	0.1	2	26	740	0.2	0.5
cs t-15-88	PDZ15	0.1	19/03/2013	AI45031	0.001	0.5	23	0.15	2.4	27	540	0.2	0.5
cs t-15-89	PDZ15	0.1	19/03/2013	AI45032	0.001	0.5	12	0.11	0.45	18	160	0.2	0.5
cs t-15-90	PDZ15	0.1	19/03/2013	AI45033	0.001	0.5	12	0.14	0.38	20	170	0.2	0.5
cs t-15-91	PDZ15	0.1	19/03/2013	AI45034	0.001	0.5	12	0.15	0.37	17	140	0.2	0.5
cs t-15-92	PDZ15	0.1	19/03/2013	AI45035	0.001	0.5	13	0.1	0.72	20	150	0.2	0.5
cs t-15-93	PDZ15	0.1	23/05/2013	AI75544	0.001	0.5	51	0.73	3.8	33	1000	0.2	0.5
cs t-15-94	PDZ15	0.1	23/05/2013	AI75545	0.001	0.5	34	0.91	4.1	23	810	0.2	0.5
cs t-15-95	PDZ15	0.1	23/05/2013	AI75546	0.001	0.5	42	0.31	3.9	23	1100	0.2	0.5
cs t-15-96	PDZ15	0.1	29/05/2013	AI77331	0.001	0.5	13	0.1	0.46	24	190	0.2	0.5
cs t-15-97	PDZ15	0.1	11/06/2013	AI83084	0.001	0.5	17	0.14	0.42	30	200	0.2	0.5
cs t-15-98	PDZ15	0.1	11/06/2013	AI83085	0.001	0.5	32	0.32	0.54	34	210	0.2	0.5
cs t-15-99	PDZ15	0.1	11/06/2013	AI83086	0.001	0.5	29	0.15	1.8	37	230	0.2	0.5
cslt-15-100	PDZ15	0.1	11/06/2013	AI83087	0.001	0.5	19	0.11	0.7	33	180	0.2	0.5
cslt-15-101	PDZ15	0.1	11/06/2013	AI83088	0.001	0.5	13	0.15	0.1	22	110	0.2	0.5
cslt-15-102	PDZ15	0.1	11/06/2013	AI83089	0.001	0.5	25	0.58	0.1	25	65	0.2	0.5
cslt-15-103			11/06/2013		0.001	0.5	15	0.23	0.63	17	170	0.2	0.5
cslt-15-118			19/06/2013		0.001	0.5	16	0.23	0.65	18	470	0.2	0.5
cslt-16-104			19/06/2013		0.001	0.5	14	0.22	0.6	17	190	0.2	0.5
cslt-17-105			19/06/2013		0.001	0.5	22	0.26	1.5	21	400	0.2	0.5
cslt-18-106			19/06/2013		0.001	0.5	9.3	0.12	0.38	11	140	0.2	0.5
cslt-19-107			19/06/2013		0.001	0.5	13	0.15	0.39	14	150	0.2	0.5
cslt-20-108			19/06/2013		0.001	0.5	16	0.16	0.82	19	300	0.2	0.5
cslt-21-109			19/06/2013		0.001	0.5	14	0.1	0.72	17	230	0.2	0.5
cslt-22-110			19/06/2013		0.001	0.5	12	0.18	0.26	15	72	0.2	0.5
cslt-23-111			19/06/2013		0.001	0.5	11	0.1	0.29	14	120	0.2	0.5
cslt-24-112			19/06/2013		0.001	0.5	17	0.13	1.1	22	340	0.2	0.5
cslt-25-113			19/06/2013		0.001	0.5	27	1.1	1.9	34	1200	0.2	0.5
cslt-26-114			19/06/2013		0.001	0.5	16	0.24	0.67	24	260	0.2	0.5
cslt-27-115			19/06/2013		0.001	0.5	11	0.13	0.26	15	75	0.2	0.5
cslt-28-116			19/06/2013		0.001	0.5	17	0.32	0.82	24	170	0.2	0.5
cslt-29-117			19/06/2013		0.001	0.5	18	0.15	0.81	23	150	0.2	0.5

Location Reference	TPH al phat c >C5 C6	TPH al phat c >C6 C8	TPH al phat c >C8-C10	TPH al phat c >C10 C12	TPH al phat c >C12 C16	TPH al phat c >C16 C21	TPH al phat c >C21 C35	TPH a omat c >C5-C7	TPH a omat c >C7-C8	TPH a omat c >C8-C10	TPH a omat c >C10-C12	TPH a omat c >C12-C16	TPH a omat c >C16-C21	TPH a omat c >C21-C35
n	112	112	112	112	112	112	112	112	112	112	112	112	112	112
No > SSAC HH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No > SSAC CW	0	0	0	0	0	0	0	112	0	0	0	0	0	0
Max	0 1	0 1	0 1	1	8 9	21	53	0 1	0 1	0 2	4 9	22	87	140
M n	0 1	0 1	<0 1	<1	<1	<1	<1	<0 1	0 1	<0 1	<1	<1	<1	<1
Mean	0 10	0 10	0 10	1 00	1 14	1 71	2 32	0 10	0 10	0 10	1 05	2 04	6 30	10 41
SSAC HH	6 71E 05	6 71E 05	1 34E 04	1 34E 04	1 34E 04	2 69E 05	2 69E 05	1 56E 02	3 91E 02	7 39E 02	5320 00	5160 00	4030 00	4030 00
SSAC CW	1 40E 01	3 50E 01	8 20E 00	4 20E 01	2 91E 02	5 00E 04	5 00E 04	5 00E 02	7 00E 00	1 30E 01	7 20E 01	3 30E 02	1 98E 03	1 98E 03
US95	0 0	0 0	0 0	00	00	00	00	0 0	0 0	0 0	00	80	6 20	3 00
Unit	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}
CSLT-15-02	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-03	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.2	4.2	11
CSLT-15-06	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-07	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.5	6	8.6
CSLT-15-08	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-09	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-10	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-12	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.3	3.8	5.7
CSLT-15-13	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-15	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.8	4.6	9.5
CSLT-15-32	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.7	21	24
CSLT-15-33	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.8	5.9	13
CSLT-15-36	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-37	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-38	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-39	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-40	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-42	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	3.9	9.5
CSLT-15-43	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.3	4.1	10
CSLT-15-45	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.9	21	21
CSLT-15-01	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-35	0.1	0.1	0.1	1	1	1.4	43	0.1	0.1	0.1	1	1	18	13
CSLT-15-31	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-34	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-63	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-64	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-61	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-65	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-67	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-66	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-68	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-69	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-72	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.7	3.7	7.5
CSLT-15-73	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-78	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.3	3.7	6.4
CSLT-15-76	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-77	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-16	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-20	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-17	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.1	3.5	11
CSLT-15-19	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-18	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-47	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-46	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-52	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-53	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-54	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-55	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-80	0.1	0.1	0.1	1	5.6	14	4.1	0.1	0.1	0.1	1	3.5	5.4	2.8
CSLT-15-81	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-79	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-50	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-70	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-75	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-48	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
CSLT-15-49	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
cs t-15-21	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.9	7.5	12
cs t-15-22	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.3	5.6	11
cs t-15-23	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	3	13	20
cs t-15-24	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.2	4 9	8.6	15	19
cs t-15-25	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.6	8	11
cs t-15-26	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	3.1	9.3	20
cs t-15-27	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	4.4	9.6	28
cs t-15-82	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	3.2	8.7	16
cs t-15-83	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	3.4	6.9	14
cs t-15-28	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	3.6	10	16
cs t-15-29	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.6	6.1	11
cs t-15-30	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1 7	4.1	8.5	18
cs t-15-56	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2	5.4	8.7
cs t-15-57	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.2	6.7	8.5
cs t-15-58	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1 2	7.4	27	24
cs t-15-59	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.1	3.5	2.6
cs t-15-60	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.8	3.7	5.6
cs t-15-11	0.1	0.1	0.1	1	8.9	21	4.9	0.1	0.1	0.1	1	4.8	14	12
cs t-15-14	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.7	6.6	8.2
cs t-15-41	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.4	6.9	11
cs t-15-44	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	3.1	7.9	11
cs t-15-84	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.6	5.7	13
cs t-15-85	0.1	0.1	0.1	1	3.3	21	11	0.1	0.1	0.1	1	2	8.2	11
cs t-15-86	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	3.2	1.1
cs t-15-87	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.6	5.1	7.1
cs t-15-88	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1 3	2.8	5.9	8.9
cs t-15-89	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.1	5.7	9.7
cs t-15-90	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.2	5.9	9
cs t-15-91	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.3	3.1	6.2
cs t-15-92	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.4	6.6	12
cs t-15-93	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.2	6.9	19
cs t-15-94	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.5	4.2	14
cs t-15-95	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2.6	9.5	23
cs t-15-96	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1
cs t-15-97	0.1	0.1	0.1	1	1	1	27	0.1	0.1	0.1	1	12	39	93
cs t-15-98	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	6.5	15
cs t-15-99	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	8.7	23
cslt-15-100	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	7.6	15
cslt-15-101	0.1	0.1	0.1	1	1.9	8.7	12	0.1	0.1	0.1	1	1	3.7	8.3
cslt-15-102	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	5.5	14
cslt-15-103	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	3.6	7.7
cslt-15-118	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.3	3.6	5.5
cslt-16-104	0.1	0.1	0.1	1	1	19	53	0.1	0.1	0.1	1	1	13	25
cslt-17-105	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	9.3	60	140
cslt-18-106	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1 4	22	87	75
cslt-19-107	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.4	4.3	13
cslt-20-108	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.4	5.1	12
cslt-21-109	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.2	5.8	12
cslt-22-110	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	2.9	9.1
cslt-23-111	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1.7	6.4	11
cslt-24-112	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	3	8.8	18
cslt-25-113	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	2	9.9	25
cslt-26-114	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1.5
cslt-27-115	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1.2	2.9
cslt-28-116	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	5	9.9
cslt-29-117	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	5.3	12

Location Reference	Naphthalene	Acenaphthylene	Acenaphthene	Fluo ene	Phenanth ene	Anth acene	Fluo anthene	Py ene	Benzo[a]anth acene	Ch ysene	Benzo[b fluo anthene	Benzo[k]fluo anthene	Benzo[a]py ene	D benzo[a,h]anth acene	Indeno[1,2,3-cd]py ene	Benzo[g,h,]pe ylene
n	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
No > SSAC HH	0	0	0	0	0	0	0	0	1	1	1	1	5	1	1	0
No > SSAC CW	1	3	2	0	0	0	1	0	1	1	1	1	33	1	1	0
Max	58	8 6	37	50	340	91	280	210	110	130	81	71	81	13	58	46
M n	0 1	<0 1	0 1	<0 1	0 13	0 1	<0 28	0 24	<0 13	0 18	0 25	<0 17	<0 1	0 1	0 1	0 1
Mean	0 88	0 33	0 84	0 79	4 79	1 50	4 95	3 98	2 16	2 46	2 04	1 63	1 92	0 39	1 35	1 18
SSAC HH	3 84E 03	7 27E 03	7 24E 03	4 86E 03	3 67E 03	3 67E 04	4 91E 03	3 68E 03	1 97E 01	2 95E 01	2 34E 01	3 44E 01	3 38E 00	3 53E 00	1 39E 01	3 69E 03
SSAC CW	5 60E 00	1 00E 00	1 20E 01	2 60E 03	1 97E 03	2 80E 03	9 50E 01	1 50E 03	7 20E 00	3 20E 01	1 60E 01	1 60E 01	1 30E 00	1 30E 00	1 60E 01	1 97E 03
US95	47	0 72	0 75	0 62	3 34	30	4 9	40	2 6	2 58	2 53	2 6	90	0 62	79	59
Unit	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}
CSLT-15-02	0.15	0 32	0.5	0.24	1 4	0.68	2.2	2 5	1.3	1.5	1.6	1.6	1.8	0 1	0 1	0.75
CSLT-15-03	0.1	0 23	0 1	0.24	1 5	0.82	3.5	3 1	1.5	1.8	1.4	1.9	1.9	0.13	1	0.93
CSLT-15-06	0.18	0 31	0.38	0.11	1 2	0.64	2.3	2 1	1.3	1.4	1.5	1.5	1.2	0 1	0.73	0.33
CSLT-15-07	0.23	0 26	0.45	0.14	1 1	0.49	1.7	1 6	0.91	0.99	1	1	1	0 1	0.3	0.23
CSLT-15-08	0.26	0.3	0 1	0.18	0.92	0.61	1.7	1 6	0.81	0.98	0.87	0.57	0 69	0 1	0.34	0.34
CSLT-15-09	0.5	0 73	0.5	0.62	3 4	1.3	3	2 4	1.4	1.6	0.87	1.3	1	0 1	0.56	0.5
CSLT-15-10	0.11	0 19	0.28	0.18	1 4	0.5	2	1 7	1.1	1.2	1.2	0.84	0 16	0.2	0.55	0.68
CSLT-15-12	0.18	0 23	0.25	0.54	2 2	1.3	1.7	1 6	0.66	0.83	0.78	0.44	0.1	0.17	0.58	0.53
CSLT-15-13	0.32	0 31	0.24	0.27	0.71	0.36	0.77	0.61	0.53	0.58	0.35	0.44	0 44	0 1	0.16	0.36
CSLT-15-15	0.35	0 69	0.42	0.56	1 1	0.62	1.7	1 5	0.87	0.89	0.78	1	1	0.38	0.49	0.81
CSLT-15-32	0.28	0 23	0.77	0.85	6 3	2.2	12	8 4	5.8	6.5	6.7	3.6	4.8	1.2	3.3	3.3
CSLT-15-33	0.35	0.3	0.75	0.49	2 5	0.99	4.2	4 1	2.2	2.7	2.7	1.6	1.7	0.58	1.8	1.6
CSLT-15-36	0.1	0 26	0.33	0.23	0.98	0.58	1.1	1	0.66	0.74	0.72	0.56	0 17	0 1	0 1	0.1
CSLT-15-37	0.37	0 21	0.57	0.28	2 1	0.77	2.5	2 3	1.5	1.7	1.9	2.2	0 17	0.17	0.63	0.48
CSLT-15-38	0.34	0 22	0.43	0.54	0.87	0.44	1.2	1 2	0.59	0.81	0.75	0.7	0 66	0 1	0 1	0.1
CSLT-15-39	0.1	0.1	0 1	0.15	1 3	0.44	1.8	1 8	0.87	1	0.9	0.76	0 52	0.17	0.71	0.67
CSLT-15-40	0.23	0 13	0.52	0.17	2	0.51	2.2	1 8	0.98	1	0.92	0.58	0.8	0.11	0.56	0.46
CSLT-15-42	0.1	0.1	0.15	0.16	1 1	0.37	1.7	1 6	0.7	0.83	0.83	0.61	0 51	0.1	0.59	0.51
CSLT-15-43	0.1	0.1	0.23	0.13	1 1	0.9	1.6	1 6	0.73	0.86	0.83	0.64	0 73	0.11	0.61	0.7
CSLT-15-45	0.18	0 13	0.29	0.26	1 8	0.55	3.3	3 5	1.7	1.8	1.8	1.3	1.9	0.49	1.4	1.5
CSLT-15-01	0.29	0 72	0.61	0.23	1 6	0.6	2.2	2 3	0.97	1.1	1.1	0.67	0 86	0.1	0.49	0.43
CSLT-15-35	0.39	0 32	0.74	0.12	0.74	0.4	1.1	1 3	0.55	0.53	0.59	0.52	0 47	0 1	0.27	0.23
CSLT-15-31	0.1	0.1	0 1	0.23	1 7	0.71	3.1	2 8	1.5	1.6	1.1	1.2	1.4	0 1	1.1	1.3
CSLT-15-34	0.1	0.1	0 1	0.22	1 2	0.59	1.7	1 6	0.88	0.92	0.6	0.62	0 85	0 1	0.48	0.61
CSLT-15-63	0.1	0.1	0 1	0.16	1 1	0.49	1.6	1 5	0.71	0.74	0.83	0.57	0 78	0.1	0.61	0.75
CSLT-15-64	0.1	0.1	0 1	0.21	1 2	0.64	2	1 9	0.97	1	0.94	0.66	0 92	0 1	0.65	0.79
CSLT-15-61	0.1	0.1	0 1	0.3	1 3	0.61	1.9	1 9	0.99	1	0.87	0.82	1	0.14	0.79	0.75
CSLT-15-65	0.1	0.1	0 1	0.1	0.41	0.26	0.39	0.39	0.13	0.18	0.25	0.2	0.3	0 1	0 1	0.1
CSLT-15-67	0.1	0.1	0 1	0.18	0.75	0.6	1.2	1 3	0.59	0.6	0.6	0.49	0 61	0 1	0.47	0.5
CSLT-15-66	0.1	0.1	0 1	0.14	0.64	0.3	0.88	0.91	0.41	0.44	0.48	0.33	0 45	0 1	0.27	0.29
CSLT-15-68	1.3	1.2	2.3	0.72	6 2	2.1	7	5 9	3.1	3.3	2.6	2.3	3	0.52	2.4	2.2
CSLT-15-69	1.5	0.1	0.4	0.33	0.86	0.46	1.6	1 4	0.88	0.78	0.78	0.75	0 77	0.2	0.71	0.1
CSLT-15-72	1.9	0 36	0.59	0.62	2 6	0.93	4.1	3 4	1.9	1.9	2.1	1.6	1.9	0.63	1.7	1.2
CSLT-15-73	2.2	0 33	0.66	0.32	2	0.66	2.7	2 6	1.4	1.7	1.8	1.1	1.6	0.53	1.6	0.87
CSLT-15-78	0.13	0.3	0.19	0.25	1 1	0.49	1.6	1 6	0.66	0.81	0.73	0.58	0 73	0.17	0.57	0.44
CSLT-15-76	0.15	0 35	0.57	0.51	3	1	3.4	2 4	1.3	1.5	1.9	1.1	1.6	0.64	1	0.79
CSLT-15-77	0.1	0 26	0.21	0.25	0.98	0.54	1.7	1 7	0.82	0.94	0.98	0.83	0 88	0.15	0.63	0.53
CSLT-15-16	0.1	0 26	0.13	0.12	0.97	0.58	1.8	1 8	0.95	1.1	0.87	0.36	0 99	0.26	0.61	0.43
CSLT-15-20	0.1	0.2	0.13	0.11	0.82	0.45	1.6	1 3	0.88	0.91	1	1	1.1	0.22	0.65	0.35
CSLT-15-17	0.28	0 28	0.38	0.24	1 3	0.51	1.7	1 4	0.68	0.82	1.2	1.1	1	0.27	0.54	0.4
CSLT-15-19	0.21	0 23	0.16	0.11	0.61	0.39	1	1 1	0.54	0.64	0.59	0.48	0 57	0 1	0.33	0.19
CSLT-15-18	0.16	0.4	0.35	0.23	0.81	0.42	1.3	1 2	0.67	0.7	0.55	0.69	0 67	0.16	0.43	0.39
CSLT-15-47	0.29	0 19	0.35	0.19	1 3	0.5	2.1	1 8	0.99	1.1	0.86	0.72	0.9	0.23	0.43	0.22
CSLT-15-46	0.19	0 26	0.31	0.14	0.77	0.46	1.5	1 3	0.7	0.86	0.73	0.74	0.8	0.19	0.57	0.51
CSLT-15-52	0.1	0.1	0.26	0.41	1 3	0.51	2.9	2	1.2	1.3	1.3	0.99	1.1	0.33	0.93	0.68
CSLT-15-53	0.1	0 19	0.28	0.19	1 3	0.4	2.7	2	1.2	1.4	1.4	1.2	1.3	0.53	0.87	0.81
CSLT-15-54	0.1	0 27	0.19	0.16	0.72	0.38	1.1	0.78	0.58	0.64	1.1	0.41	0 61	0.31	0.47	0.33
CSLT-15-55	0.1	0 13	0.16	0.14	0.75	0.26	1.1	0.74	0.52	0.57	0.81	0.7	0 73	0.46	0.76	0.32
CSLT-15-80	0.1	0 15	0.23	0.12	0.55	0.26	0.87	0.73	0.53	0.49	0.52	0.37	0 42	0.11	0.4	0.37
CSLT-15-81	0.1	0 12	0.19	0.13	0.66	0.31	1.3	1 1	0.72	0.79	0.72	0.67	0 72	0 1	0.41	0.4
CSLT-15-79	0.27	0 13	0.35	0.25	1 7	0.52	2.3	2 1	1.1	1.2	1.4	0.9	1.6	0.32	1.3	0.44
CSLT-15-50	0.1	0 14	0.26	0.25	1 3	0.44	2	1 4	0.94	0.96	0.99	0.56	0 84	0.42	0.56	0.82
CSLT-15-70	0.3	0 13	0.25	0.28	1	0.37	1.7	1 4	0.71	0.72	0.97	0.47	0 78	0 1	0.5	0.81
CSLT-15-75	0.5	0 23	0.26	0.3	0.88	0.39	1.5	2 3	0.75	0.77	0.92	0.76	0 82	0.17	0.69	0.71
CSLT-15-48	0.1	0 24	0.32	0.5	1 6	0.71	2.6	2 4	1.3	1.4	1.2	0.89	1.2	0.11	0.88	0.44
CSLT-15-49	0.13	0.1	0.23	0.21	0 7	0.39	1.4	1 3	0.66	0.65	0.7	0.54	0 76	0 1	0.58	0.51
cs t-15-21	2.7	2	13	7	17	6.7	9	6 4	3.2	3.3	2.7	2.8	2.8	0.76	1.7	1.8
cs t-15-22	1.3	0 64	3.1	0.88	4 2	1.7	3	2 3	1.3	1.3	1.1	1.2	1.2	0.27	0.77	0.38
cs t-15-23	0.95	0 28	1.1	0.22	2	0.74	2.7	2 2	1.2	1.3	1.4	1.1	1.3	0.1	0.74	0.34
cs t-15-24	0.96	0 21	0.83	0.79	2	0.6	1.8	1 6	0.75	0.85	0.77	0.76	1	0 1	0 1	0.1
cs t-15-25	0.69	0 22	0.56	0.1	1 4	0.54	2.1	1 8	1	1.1	0.9	1.1	1.1	0.58	0.85	0.43
cs t-15-26	0.67	0.2	0.65	0.33	1 2	0.49	1.7	1 5	0.89	0.95	0.96	0.8	0 96	0.47	0.74	0.42
cs t-15-27	0.84	0 38	0.61	0.3	1	0.46	1.4	1 2	0.87	0.78	0.71	0.68	0 67	0.52	0.65	0.68
cs t-15-82	1.1	0 44	0.67	0.39	1 2	0.5	1.5	1 3	0.88	0.81	0.67	0.53	0.7	0.23	0.51	0.42
cs t-15-83	0.84	0 39	0.59	0.72	3 9	1.1	4.9	3 8	2.1	2.2	1.8	1.4	1.6	0.75	1.5	1.4
cs t-15-28	0.6	0 27	0.34	0.23	1 7	0.51	2.2	1 9	1.2	1.1	0.99	0.91	1.1	0.18	0.88	0.88
cs t-15-29	0.43	0 28	0.33	0.24	1 2	0.45	2.1	1 8	1.1	1.1	0.84	0.55	0 98	0.17	0.78	0.96
cs t-15-30	0.53	0 25	0.31	0.2	0.89	0.37	1.4	1 3	0.67	0.8	0.85	0.85	0.8	0.25	0.62	0.53
cs t-15-56	0.57	0 16	0.37	0.18	0.81	0.36	1.5	1 3	0.83	0.79	0.75	0.46	0 73	0.22	0.65	0.61
cs t-15-57	0.27	0 18	0.3	0.1	0.64	0.37	1.2	1 1	0.5	0.58	0.6	0.6	0 69	0 1	0.4	0.29
cs t-15-58	0.34	0 22	0.44	0.26	1 3	0.53	2.1	1 8	1.1	1.1	1.1	0.92	1	0.39	0.83	0.87
cs t-15-59	0.36	0 18	0.29	0.21	0.75	0.39	1.2	1 2	0.81	0.8	0.97	0.84	0 87	0.3	0.76	0.46
cs t-15-60	0.2	0 15	0.49	0.5	1 1	0.4	1.2	0 9	0.71	0.67	0.63	0.47	0 58	0 1	0.33	0.44
cs t-15-11	0.54	0 31	0.5	0.27	1	0.53	1.5	1 5	0.78	0.8	0.76	0.71	0.7	0.31	0.56	0.72
cs t-15-14	0.43	0 34	0.54	0.3	1 8	0.84	3	2 7	1.9	2.1	2.2	1.9	2.6	0.78	2.5	2.5
cs t-15-41	0.27	0 18	0.33	0.29	1 9	0.55	2	1 6	0.86	0.96	0.76	0.6	0.7	0.39	0.55	0.43
cs t-15-44	0.32	0 21	0.34	0.22	0.89	0.52	1.5	1 3	0.81	0.82	0.7	0.65	0 61	0.23	0.72	0.65
cs t-15-84	0.23	0.2	0.34	0.26	1 6	0.48	2	1 6	0.96	1	0.94	0.68	0 85	0.33	0.78	0.65
cs t-15-85	0.41	0 21	0.48	0.29	0.92	0.5	1.6	1 5	0.68	0.72	0.6	0.6	0 77	0.2	0.59	0.64
cs t-15-86	0.19	0 18	0.34	0.25	0.81	0.45	1.3	1 3	0.42	0.55	0.77	0.6	0 62	0.19	0.44	0.54
cs t-15-87	0.95	0 38	0.69	0.42	1 4	0.61	2.4	2	1.4	1.3	1.1	1.1	1.2	0.57	1	0.74
cs t-15-88	0.79	0 54	0.93	0.79	1 5	0.65	2.4	2	1.3	1.2	1.2	1.2	1.4	0.36	1.1	0.96
cs t-15-89	0.32	0.4	0.7	0.41	1	0.51	1.5	1 4	0.9	0.87	0.95	0.94	0 96	0.44	0.6	0.66
cs t-15-90	0.34	0 26	0.63	0.48	2 7	1.2	3.3	2 6	1.5	1.6	1.5	1.4	1.6	0.42	1	0.95
cs t-15-91	0.18	0 22	0.39	0.29	0.89	0.5	1.7	1 6	1	0.89	0.85	0.89	0 82	0.53	0.81	0.74
cs t-15-92	0.29	0 28	0.44	0.27	1 1	0.57	2	1 7	1.2	1.1	1.5	1.3	1.4	0.59	1.1	1
cs t-15-93	0.66	0 51	0.32	0.1	1 3	0.46	2	1 7	1	1.4	1.8	0.88	1.6	0.24	1	1.5
cs t-15-94	0.4	0 29	0.14	0.1	1 5	0.5	2.7	2 3	1.3	1.6	1.8	0.98	1.7	0.17	1.1	1.3
cs t-15-95	0.37	0 31	0.5	0.21	3 3	0.84	5.7	4 9	2.7	3.3	3.6	2.2	3.5	0.55	2.3	2.8
cs t-15-96	0.1	0 15	0.18	0.12	0.72	0.43	1.5	1 4	1.1	1.1	1.3	0.76	1.2	0 1	0.12	0.26
cs t-15-97	0.14	0 24	0.38	0.3	3 6	1.2	4.7	4	2.1	2.8	2.5	1.9	1.8	0.19	1.3	1.5
cs t-15-98	0.22	0 24	0.36	0.45	3 9	1.4	5.7	4 6	2.2	2.5	3.1	1.9	2.4	0.3	1.4	1.6
cs t-15-99	0.1	0.2	0.76	0.42	3 7	1.4	5.4	4 8	2.6	2.9	3.5	2.6	3.5	0.29	1.6	1.9
cslt-15-100	0.1	0 21	0.23	0.1	1 2	0.56	2	1 9	0.94	1.1	1.7	0.93	1.2	0.11	0.57	1.3
cslt-15-101	0.13	0 14	0.17	0.1	0.58	0.47	0.82	0.64	0.34	0.47	0.76	0.56	0 91	0 1	0.17	0.93
cslt-15-102	0.1	0 26	0.22	0.18	2 3	0.5	3.5	3	1.4	1.6	2.2	1.4	1.7	0.25	1.2	1.9
cslt-15-103	0.1	0.1	0 1	0.1	0.13	0.1	0.28	0.24	0.17	0.23	0.39	0.17	0 29	0 1	0 1	0.1
cslt-15-118	0.1	0.1	0 1	0.1	0.28	0.21	0.62	0 5	0.21	0.3	0.38	0.17	0 31	0 1	0 1	0.1
cslt-16-104	0.54	0 37	0.39	0.6	3 8	1.1	4.2	3 5	2	2.4	2.3	1.4	2.2	0.42	1.7	1.2
cslt-17-105	58	8.6	37	50	340	91	280	210	110	130	81	71	81	13	58	46
cslt-18-106	0.23	0 11	0.26	0.2	1 9	0.48	2.8	2 2	1.3	1.5	1.8	0.92	1.5	0 1	0 1	0.1
cslt-19-107	0.16	0.1	0.15	0.19	1 6	0.42	2.1	1 7	1	1.1	1.2	0.71	1.1	0 1	0.67	0.58
cslt-20-108	0.27	0 21	0.35	0.2	2 3	0.62	5.1	4 3	2.7	3.1	4.3	2.2	3.1	0.68	2.2	1.7
cslt-21-109	0.19	0 25	0.45	0.56	5 8	1.2	8.5	6 8	3.4	4	3.5	2.5	3.3	0.31	2.2	1.8
cslt-22-110	0.1	0.1	0 1	0.1	0 4	0.38	0.74	0.63	0.42	0.47	0.63	0.44	0 57	0.23	0.45	0.43
cslt-23-111	0.21	0 19	0.5	0.48	1 5	0.62	2.2	1 7	0.97	1.2	1.2	0.7	1.2	0 1	0.27	0.28
cslt-24-112	0.17	0 15	0.67	0.53	4 9	1.1	6.6	5 3	3.2	3.9	2.9	2.4	2.8	0.71	2.3	1.7
cslt-25-113	0.1	0 22	0.3	0.22	3 2	0.77	7	5 8	3.5	4.4	4.6	2.8	3.9	0 1	3.4	2.2
cslt-26-114	0.1	0.1	0 1	0.1	0.76	0.28	1.2	1	0.58	0.71	0.88	0.39	0.7	0.23	0.54	0.3
cslt-27-115	0.1	0.1	0 1	0.1	0.93	0.33	1.5	1 3	0.73	0.82	0.82	0.56	0.8	0.23	0.76	0.48
cslt-28-116	0.1	0.1	0.78	0.76	4 3	1.4	5.2	3 7	2.3	2.6	2.4	1.4	2.3	0.6	1.4	0.95
cslt-29-117	0.1	0.1	0 1	0.1	1 4	1.2	2.3	2 1	1.1	1.3	1.4	0.88	1.4	0.21	0.89	0.65

Location Reference	V nyl chlo de	1,1,1-T chlo oethane	Benzene	1,2 D chlo oethane	T chlo oethene	Toluene	Tet achlo oethene	Ethylbenzene	m- & p-Xylene	o-Xylene	Phenols (total)	1,1,1,2 - Tet achlo oethane	1,1,2,2 - Tet achlo oethane	Carbon Tetrachloride
n	112	112	112	112	112	112	112	112	112	112	112	112	112	112
No > SSAC HH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No > SSAC CW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	0 001	0 001	0 001	0 002	0 001	0 0014	0 001	0 0094	0 036	0 018	0 4	0 002	0 01	0 001
M n	0 001	<0 001	<0 001	0 001	<0 001	<0 001	0 001	<0 001	0 001	0 001	0 3	0 002	0 01	<0 001
Mean	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 30	0 00	0 01	0 00
SSAC HH	6 89E 02	8 27E 02	2 24E 00	6 48E 01	1 47E 01	4 18E 02	1 78E 02	2 59E 04	7 95E 02	7 95E 02	1 16E 05	1 44E 02	3 38E 02	2 51E 00
SSAC CW	2 00E 03	1 50E 01	5 00E 02	1 00E 02	1 70E 01	7 00E 00	1 50E 00	2 10E 01	9 80E 00	9 80E 00	5 00E 03	6 60E 00	6 60E 00	2 10E 00
US95	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 30	0 00	0 0	0 00
Unit	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}	mg kg^{-1}
CSLT-15-02	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-03	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-06	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-07	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-08	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-09	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-10	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-12	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-13	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-15	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-32	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-33	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-36	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-37	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-38	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-39	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-40	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-42	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-43	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-45	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-01	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-35	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-31	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-34	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-63	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-64	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-61	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-65	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-67	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-66	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-68	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-69	0 001	0.001	0.001	0 001	0.001	0.001	0.001	0.0043	0 0044	0.0021	0 3	0.002	0 01	0.001
CSLT-15-72	0 001	0.001	0.001	0 001	0.001	0.001	0.001	0.0022	0 0018	0.001	0 3	0.002	0 01	0.001
CSLT-15-73	0 001	0.001	0.001	0 001	0.001	0.001	0.001	0.001	0.001	0.001	0 3	0.002	0 01	0.001
CSLT-15-78	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-76	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.0024	0 0046	0.0036	0 3	0.002	0 01	0.001
CSLT-15-77	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0.0015	0 3	0.002	0 01	0.001
CSLT-15-16	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-20	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-17	0.001	0.001	0.001	0.002	0.001	0.0014	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-19	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-18	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-47	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-46	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-52	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.0023	0 0013	0 001	0 3	0.002	0 01	0.001
CSLT-15-53	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-54	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-55	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-80	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-81	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-79	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-50	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.0029	0 0021	0 001	0 3	0.002	0 01	0.001
CSLT-15-70	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-75	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-48	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.0031	0.001	0 001	0 3	0.002	0 01	0.001
CSLT-15-49	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-21	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-22	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-23	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-24	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.0016	0 0016	0 001	0 3	0.002	0 01	0.001
cs t-15-25	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-26	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-27	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-82	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-83	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-28	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-29	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.003	0 001	0 3	0.002	0 01	0.001
cs t-15-30	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-56	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-57	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-58	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-59	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-60	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-11	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.0031	0.011	0.0072	0 3	0.002	0 01	0.001
cs t-15-14	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.0094	0.036	0.018	0 3	0.002	0 01	0.001
cs t-15-41	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-44	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.0059	0.011	0.014	0 3	0.002	0 01	0.001
cs t-15-84	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0 0014	0.001	0 3	0.002	0 01	0.001
cs t-15-85	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-86	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0 0019	0.0013	0 3	0.002	0 01	0.001
cs t-15-87	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0 0011	0 001	0 3	0.002	0 01	0.001
cs t-15-88	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-89	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-90	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-91	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-92	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-93	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-94	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-95	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-96	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 4	0.002	0 01	0.001
cs t-15-97	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-98	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cs t-15-99	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-15-100	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-15-101	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-15-102	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-15-103	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-15-118	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-16-104	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-17-105	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-18-106	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-19-107	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-20-108	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-21-109	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-22-110	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-23-111	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-24-112	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-25-113	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-26-114	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-27-115	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-28-116	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001
cslt-29-117	0.001	0.001	0.001	0.002	0.001	0.001	0 001	0.001	0.001	0 001	0 3	0.002	0 01	0.001

Table F3: Laboratory Soil Leachability Testing Results for Sub-soil

					Ammoniacal Nitrogen	Sulfate	Cyanide (free)	Arsenic	Cadmium	Copper	Mercury	Nickel	Lead	Selenium	Zinc	Chromium (hexavalent)	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]anthracene	Chrysene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[a]pyrene	Dibenzo[a,h]anthracene	Indeno(1,2,3-cd)pyrene	Benzo[g,h,i]perylene	Total (of 16) PAHs	Phenols (total)
				n	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
				No > SSAC CW Leachate	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	7	0	7	5	0	0	0	0
				Max	3.3	130	0.05	0.075	0.0007	0.016	0.00085	0.0075	0.38	0.012	0.022	0.02	0.0001	0.0013	0.002	0.0014	0.0056	0.0016	0.016	0.011	0.0046	0.0062	0.0065	0.0037	0.0068	0.0012	0.0034	0.0032	0.06	0.03
				Min	0.03	3.5	0.05	0.001	0.00008	0.001	0.0005	0.001	0.001	0.001	0.001	0.02	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.002	0.03
				Mean	0.4585	78.1750	0.0500	0.0115	0.0001	0.0076	0.0005	0.0022	0.0200	0.0039	0.0057	0.0200	0.0001	0.0002	0.0003	0.0003	0.0014	0.0005	0.0032	0.0030	0.0012	0.0014	0.0015	0.0010	0.0016	0.0002	0.0006	0.0007	0.0169	0.0300
				SSAC CW Leachte	270.00	852.00	0.12	3.00E 02	1.00E 02	6.80E+00	2.00E 03	7.00E 02	9.00E 02	3.00E 02	1.70E+01	1.20E 01		1.61E+01	3.80E+00	1.90E+00	1.10E+00	2.00E 02	3.00E 02	8.00E 03	1.00E 02	1.70E 02	2.00E 03	5.00E 03	1.00E 03	1.00E 04	2.02E+00	6.20E+00		8.40E+04
				US95	0.384	126.000	0.050	0.017	0.000	0.015	0.001	0.007	0.001	0.010	0.019	0.020	0.000	0.000	0.002	0.001	0.005	0.001	0.014	0.011	0.004	0.005	0.006	0.003	0.006	0.0003	0.002	0.003	0.053	0.030
				Outliers																													
				LOD	1.40	120.50	0.05	0.02	0.00	0.01	0.00	0.01	0.02	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.05	0.03
Location Reference	Sample Reference	Sample Depth (m)	Sample Date	Unit / Lab Ref	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1
CSLT-15-02	AI09833	0.2	17/12/2012		0.25	130	<0.05	0.013	0.0001	0.011	<0.0005	<0.001	<0.001	0.012	0.008	<0.02	<0.0001	<0.0001	0.002	0.0014	0.0056	0.0016	0.0098	0.01	0.0046	0.0062	0.0065	0.0031	0.0068	0.0003	0.001	0.0008	0.06	<0.03
CSLT-15-15	AI09834	0.2	17/12/2012		0.21	120	<0.05	0.009	<0.00008	0.01	<0.0005	<0.001	<0.001	0.005	0.007	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002	<0.03
CSLT-15-33	AI09835	0.2	17/12/2012		0.19	120	<0.05	0.011	<0.00008	0.009	<0.0005	<0.001	<0.001	0.007	0.008	<0.02	<0.0001	<0.0001	0.0005	0.0006	0.0021	0.0013	0.0046	0.0049	0.0025	0.003	0.0023	0.0019	0.0037	<0.0001	0.0005	0.0018	0.03	<0.03
CSLT-15-43	AI09836	0.2	17/12/2012		0.24	120	<0.05	0.012	<0.00008	0.007	<0.0005	<0.001	<0.001	0.005	0.007	<0.02	<0.0001	<0.0001	0.0009	0.0007	0.0027	0.0007	0.0048	0.0046	0.002	0.0025	0.003	0.0013	0.006	<0.0001	<0.0001	0.0022	0.031	<0.03
CSLT-15-04	AI15923	0.1	15/01/2013		0.46	78	<0.05	0.011	<0.00008	0.016	0.00085	0.003	<0.001	0.0036	0.022	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	0.0008	0.016	0.011	0.0013	0.0017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.032	<0.03
CSLT-15-66	AI15932	0.3	15/01/2013		0.08	64	<0.05	0.0051	<0.00008	0.0081	<0.0005	0.0075	0.0011	0.002	0.015	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	0.002	0.0025	0.0011	0.0013	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0076	<0.03
CSLT-15-73	AI17239	0.2	17/01/2013		0.27	83	<0.05	0.0069	<0.00008	0.014	<0.0005	0.0011	<0.001	0.0025	0.0027	<0.02	0.0001	0.0001	0.0007	0.0006	0.0038	0.0012	0.0068	0.0066	0.0036	0.0042	0.004	0.002	0.004	0.0002	0.0025	0.0028	0.043	<0.03
CSLT-15-20	AI25481	0.2	05/02/2013		0.18	68	<0.05	0.019	0.0007	0.0074	<0.0005	0.0054	0.0012	0.0051	0.01	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	0.0004	0.0028	0.0047	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0091	<0.03
CSLT-15-47	AI25482	0.2	05/02/2013		0.09	91	<0.05	0.0063	<0.00008	0.0032	<0.0005	0.0046	<0.001	0.0018	0.008	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002	<0.03
CSLT-15-53	AI29309	0.2	12/02/2013		0.07	61	<0.05	0.0058	<0.00008	0.0037	<0.0005	0.0019	<0.001	0.0014	0.0015	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002	<0.03
CSLT-15-81	AI29310	0.2	12/02/2013		0.1	60	<0.05	0.0089	<0.00008	0.0054	<0.0005	0.0021	<0.001	0.002	0.0033	<0.02	<0.0001	0.0013	0.0001	0.001	0.0028	0.0006	0.004	0.0041	0.0026	0.0021	0.0021	0.0024	0.0014	0.0004	0.0013	0.0009	0.027	<0.03
CSLT-15-48	AI29311	0.2	12/02/2013		0.16	62	<0.05	0.0062	<0.00008	0.0063	<0.0005	0.002	<0.001	0.0012	0.0014	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	0.0008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002	<0.03
cslt-15-22	AI45036	0.1	19/03/2013		0.43	10	<0.05	0.075	<0.00008	0.012	<0.0005	<0.001	0.38	0.0056	0.007	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	0.0029	0.0011	0.0067	0.0062	0.0035	0.004	0.0054	0.0037	0.0048	0.0012	0.0034	0.0032	0.046	<0.03
cslt-15-56	AI45039	0.1	19/03/2013		3.3	110	<0.05	0.0096	<0.00008	0.012	<0.0005	<0.001	<0.001	0.0035	0.0014	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	0.0005	0.0004	0.001	0.0008	0.0005	0.0008	0.0011	0.0008	0.0007	<0.0001	<0.0001	<0.0001	0.0066	<0.03
cslt-15-84	AI45040	0.1	19/03/2013		0.72	90	<0.05	0.0073	<0.00008	0.0084	<0.0005	<0.001	<0.001	0.0027	0.0016	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	0.0007	0.0023	0.0021	0.0013	0.0014	0.0033	0.0028	0.0018	0.0004	0.0011	0.0011	0.02	<0.03
cslt-15-90	AI45041	0.1	19/03/2013		0.93	110	<0.05	0.0085	<0.00008	0.0058	<0.0005	<0.001	<0.001	0.0096	0.0022	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	0.0005	0.0017	0.0011	0.0007	0.0007	0.0013	0.0011	0.0009	<0.0001	<0.0001	<0.0001	0.0094	<0.03
cslt-15-92	AI45042	0.1	19/03/2013		1.3	100	<0.05	0.009	<0.00008	0.01	<0.0005	<0.001	<0.001	0.0032	0.0014	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	0.0006	0.0003	0.0011	0.0009	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0029	<0.03
cslt-22-110	AI86165	0.1	19/06/2013		0.07	71	<0.05	0.0048	<0.00008	<0.001	<0.0005	0.0046	<0.001	0.0023	0.004	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002	<0.03
cslt-29-301	AI86166	0.1	19/06/2013		0.03	3.5	<0.05	<0.001	<0.00008	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002	<0.03
cslt-31-303	AI86167	0.1	19/06/2013		0.09	12	<0.05	<0.001	<0.00008	<0.001	<0.0005	0.0016	<0.001	<0.001	<0.001	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002	<0.03

Table F4: Laboratory Soil Analysis Results for Imported Topsoil Sharp Sand

					Asbestos by weight (%)	Cyanide (free)	Arsenic	Cadmium	Copper	Mercury	Nickel	Lead	Selenium	Zinc	Chromium (hexavalent)	TPH aliphatic >C5-C6	TPH aliphatic >C6-C8	TPH aliphatic >C8-C10	TPH aliphatic >C10-C12	TPH aliphatic >C12-C16	TPH aliphatic >C16-C21	TPH aliphatic >C21-C35	TPH aromatic >C5-C7	TPH aromatic >C7-C8	TPH aromatic >C8-C10	TPH aromatic >C10-C12	TPH aromatic >C12-C16	TPH aromatic >C16-C21	TPH aromatic >C21-C35	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene
				n	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
				No > SSAC HH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				No > SSAC CW	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Max	0.001	0.5	40	0.34	24	0.1	26	38	0.2	65	0.5	0.1	0.1	0.1	1	1	6.2	18	0.1	0.1	0.1	1	1	8.7	30	0.1	0.1	0.16	0.1	0.5	0.2	0.2
				Min	0.001	0.5	17	0.1	5	0.1	14	5	0.2	30	0.5	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
				Mean	0.00	0.50	25.83	0.24	17.83	0.10	20.57	20.93	0.20	53.74	0.50	0.10	0.10	0.10	1.00	1.00	1.23	1.74	0.10	0.10	0.10	1.00	1.00	1.54	3.52	0.10	0.10	0.10	0.10	0.13	0.11	
				SSAC_HH	0.001	1.70E+01	9.72E+01	1.72E+02	135.00	4.29E+01	6.18E+02	6.16E+02	6.73E+02	200.00	3.44E+02	6.71E+05	6.71E+05	1.34E+04	1.34E+04	1.34E+04	2.69E+05	2.69E+05	1.56E+02	3.91E+02	7.39E+02	5320.00	5160.00	4030.00	4030.00	3.84E+03	7.27E+03	7.24E+03	4.86E+03	3.67E+03	3.67E+04	
				SSAC_CW			20.00	1.00	135.00	8.00	50.00	450.00	35.00	200.00	130.00	1.40E+01	3.50E+01	8.20E+00	4.20E+01	2.91E+02	5.00E+04	5.00E+04	5.00E 02	7.00E+00	1.30E+01	7.20E+01	3.30E+02	1.98E+03	1.98E+03	5.60E+00	1.00E+00	1.20E+01	2.60E+03	1.97E+03	2.80E+03	
				US95	0.00	0.50	36.60	0.33	23.00	0.10	24.00	26.90	0.20	64.00	0.50	0.10	0.10	0.10	1.00	1.00	1.00	1.00	0.10	0.10	0.10	1.00	1.00	4.84	19.90	0.10	0.10	0.10	0.10	0.19	0.14	
				Outliers																															
				LOD																															
Location Reference	Sample Reference	Sample Depth (m)	Sample Date	Lab Ref \ Unit	%	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1
cslt-15-200	PDZ15	0.1	10/06/2013	AI83064	<0.001	<0.5	40	0.22	24	<0.1	24	38	<0.2	64	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	0.16	<0.1	0.5	0.2
cslt-15-201	PDZ15	0.1	10/06/2013	AI83065	<0.001	<0.5	27	0.17	17	<0.1	18	21	<0.2	49	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-202	PDZ15	0.1	10/06/2013	AI83066	<0.001	<0.5	24	0.14	15	<0.1	16	18	<0.2	45	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-203	PDZ15	0.1	10/06/2013	AI83067	<0.001	<0.5	23	0.19	17	<0.1	19	19	<0.2	52	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-204	PDZ15	0.1	10/06/2013	AI83068	<0.001	<0.5	30	0.24	21	<0.1	24	25	<0.2	60	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-205	PDZ15	0.1	10/06/2013	AI83069	<0.001	<0.5	29	0.23	20	<0.1	22	22	<0.2	57	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	8.7	21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-206	PDZ15	0.1	10/06/2013	AI83070	<0.001	<0.5	23	0.25	19	<0.1	20	21	<0.2	54	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-207	PDZ15	0.1	10/06/2013	AI83071	<0.001	<0.5	31	0.27	20	<0.1	21	22	<0.2	57	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-208	PDZ15	0.1	10/06/2013	AI83072	<0.001	<0.5	25	0.27	21	<0.1	23	24	<0.2	63	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-209	PDZ15	0.1	10/06/2013	AI83073	<0.001	<0.5	32	0.32	23	<0.1	24	26	<0.2	65	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-210	PDZ15	0.1	10/06/2013	AI83074	<0.001	<0.5	37	0.33	23	<0.1	23	26	<0.2	62	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	0.13	0.11
cslt-15-211	PDZ15	0.1	10/06/2013	AI83075	<0.001	<0.5	20	0.34	18	<0.1	18	20	<0.2	50	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-212	PDZ15	0.1	10/06/2013	AI83076	<0.001	<0.5	17	0.23	19	<0.1	20	21	<0.2	53	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	0.19	0.1
cslt-15-213	PDZ15	0.1	10/06/2013	AI83077	<0.001	<0.5	23	0.28	22	<0.1	23	25	<0.2	63	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-214	PDZ15	0.1	10/06/2013	AI83078	<0.001	<0.5	24	0.25	20	<0.1	23	24	<0.2	59	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-215	PDZ15	0.1	11/06/2013	AI83079	<0.001	<0.5	22	0.23	19	<0.1	21	23	<0.2	56	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-216	PDZ15	0.1	11/06/2013	AI83080	<0.001	<0.5	20	0.26	20	<0.1	22	23	<0.2	59	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-217	PDZ15	0.1	11/06/2013	AI83081	<0.001	<0.5	19	0.32	19	<0.1	21	22	<0.2	55	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-218	PDZ15	0.1	11/06/2013	AI83082	<0.001	<0.5	24	0.29	22	<0.1	26	27	<0.2	64	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	5.2	30	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-15-219	PDZ15	0.1	11/06/2013	AI83083	<0.001	<0.5	19	0.28	16	<0.1	18	18	<0.2	47	<0.5	<0.1	<0.1	<0.1	<1	<1	6.2	18	<0.1	<0.1	<0.1	<1	<1	1.6	10	<0.1	<0.1	<0.1	<0.1	0.16	0.14
cslt-29-301	PDZ15	0.1	19/06/2013		<0.001	<0.5	24	<0.1	<5	<0.1	14	5.5	<0.2	30	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-30-302	PDZ15	0.1	19/06/2013		<0.001	<0.5	33	<0.1	<5	<0.1	19	5.9	<0.2	41	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cslt-31-303	PDZ15	0.1	19/06/2013		<0.001	<0.5	28	<0.1	<5	<0.1	14	<5	<0.2	31	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Table F4: Laboratory Soil Analysis Results for Imported Topsoil Sharp Sand

					Fluoranthene	Pyrene	Benzo[a]anthracene	Chrysene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[a]pyrene	Dibenzo[a,h]anthracene	Indeno[1,2,3-cd]pyrene	Benzo[g,h,i]perylene	Vinyl chloride	1,1,1-Trichloroethane	Benzene	1,2-Dichloroethane	Trichloroethene	Toluene	Tetrachloroethene	Ethylbenzene	m- & p-Xylene	o-Xylene	Phenols (total)	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Carbon Tetrachloride
				n	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
				No > SSAC HH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				No > SSAC CW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Max	0.53	0.36	0.28	0.23	1.2	1.5	0.9	0.1	0.1	0.1	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.3	0.002	0.01	0.001
				Min	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.3	0.002	0.01	0.001
				Mean	0.16	0.13	0.11	0.11	0.17	0.17	0.14	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.01	0.00
				SSAC_HH	4.91E+03	3.68E+03	1.97E+01	2.95E+01	2.34E+01	3.44E+01	3.38E+00	3.53E+00	1.39E+01	3.69E+03	6.89E-02	8.27E+02	2.24E+00	6.48E-01	1.47E+01	4.18E+02	1.78E+02	2.59E+04	7.95E+02	7.95E+02	1.16E+05	1.16E+05	1.16E+05	1.16E+05
				SSAC_CW	9.50E+01	1.50E+03	7.20E+00	3.20E+01	1.60E+01	1.60E+01	1.30E+00	1.30E+00	1.60E+01	1.97E+03	2.00E 03	1.50E+01	5.00E 02	1.00E 02	1.70E 01	7.00E+00	1.50E+00	2.10E+01	9.80E+00	9.80E+00	5.00E+03	6.60E+00	6.60E+00	2.10E+00
				US95	0.29	0.19	0.20	0.21	0.47	0.28	0.23	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.01	0.00
				Outliers																								
				LOD																								
Location Reference	Sample Reference	Sample Depth (m)	Sample Date	Unit / Lab Ref	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1	mg kg-1
cslt-15-200	PDZ15	0.1	10/06/2013	AI83064	0.53	0.36	0.21	0.23	0.51	0.3	0.24	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-201	PDZ15	0.1	10/06/2013	AI83065	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-202	PDZ15	0.1	10/06/2013	AI83066	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-203	PDZ15	0.1	10/06/2013	AI83067	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-204	PDZ15	0.1	10/06/2013	AI83068	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-205	PDZ15	0.1	10/06/2013	AI83069	0.2	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-206	PDZ15	0.1	10/06/2013	AI83070	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-207	PDZ15	0.1	10/06/2013	AI83071	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-208	PDZ15	0.1	10/06/2013	AI83072	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-209	PDZ15	0.1	10/06/2013	AI83073	0.12	0.13	0.28	0.22	1.2	1.5	0.9	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-210	PDZ15	0.1	10/06/2013	AI83074	0.14	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-211	PDZ15	0.1	10/06/2013	AI83075	0.24	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-212	PDZ15	0.1	10/06/2013	AI83076	0.28	0.19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-213	PDZ15	0.1	10/06/2013	AI83077	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-214	PDZ15	0.1	10/06/2013	AI83078	0.29	0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-215	PDZ15	0.1	11/06/2013	AI83079	0.22	0.14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-216	PDZ15	0.1	11/06/2013	AI83080	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-217	PDZ15	0.1	11/06/2013	AI83081	0.13	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-218	PDZ15	0.1	11/06/2013	AI83082	0.15	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-15-219	PDZ15	0.1	11/06/2013	AI83083	0.23	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-29-301	PDZ15	0.1	19/06/2013		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-30-302	PDZ15	0.1	19/06/2013		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001
cslt-31-303	PDZ15	0.1	19/06/2013		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.3	<0.002	<0.01	<0.001

Table F5: Laboratory Soil Leachability Results for Samples of Imported Topsoil Sharp Sand

					Ammoniacal Nitrogen	Sulfate	Cyanide (free)	Arsenic	Cadmium	Copper	Mercury	Nickel	Lead	Selenium	Zinc	Chromium (hexavalent)	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]anthracene	Chrysene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[e]pyrene	Dibenzo[a,h]anthracene	Indeno[1,2,3-cd]pyrene	Benzo[g,h,i]perylene	Phenols (total)
				n	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
				No > SSAC CW Leachate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Max	0.05	110	0.05	0.011	0.00008	0.0049	0.0005	0.017	0.002	0.0012	0.0096	0.02	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.03
				Min	0.01	76	0.05	0.0041	0.00008	0.0035	0.0005	0.0072	0.001	0.001	0.0064	0.02	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.03
				Mean	0.02	88.30	0.05	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
				SSAC CW Leachte	270.00	852.00	0.12	3.00E-02	1.00E-02	6.80E+00	2.00E-03	7.00E-02	9.00E-02	3.00E-02	1.70E+01	1.20E-01	5.60	1.61E+01	3.80E+00	1.90E+00	1.10E+00	2.00E-02	3.00E-02	1.50E-03	1.00E-02	3.00E-03	2.00E-03	1.00E-03	1.00E-03	1.00E-04	4.00E-03	1.00E-02	8.40E+04
				US95	0.068	104.50000	0.05000	0.00820	0.00008	0.00479	0.00050	0.01590	0.00156	0.00120	0.00867	0.02000	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.03000
				Outliers																													
				LOD																													
Location Reference	Sample Reference	Sample Depth (m)	Sample Date	Unit / Lab Ref	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1	mg l-1
cslt-15-200	AI83091	0.1	10/06/2013		<0.01	82	<0.05	0.0052	<0.00008	0.0035	<0.0005	0.0072	<0.001	<0.001	0.0064	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-15-202	AI83092	0.1	10/06/2013		<0.01	84	<0.05	0.0049	<0.00008	0.0036	<0.0005	0.0096	<0.001	<0.001	0.0068	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-15-204	AI83093	0.1	10/06/2013		<0.01	77	<0.05	0.011	<0.00008	0.0047	<0.0005	0.015	0.002	0.0012	0.0096	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-15-206	AI83094	0.1	10/06/2013		<0.01	87	<0.05	0.0043	<0.00008	0.0038	<0.0005	0.0087	<0.001	<0.001	0.0065	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-15-208	AI83095	0.1	10/06/2013		<0.01	100	<0.05	0.0041	<0.00008	0.0038	<0.0005	0.01	<0.001	<0.001	0.0079	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-15-210	AI83096	0.1	10/06/2013		<0.01	110	<0.05	0.0048	<0.00008	0.0039	<0.0005	0.0095	<0.001	<0.001	0.0072	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-15-212	AI83097	0.1	10/06/2013		0.05	89	<0.05	0.0059	<0.00008	0.0049	<0.0005	0.017	<0.001	0.0012	0.0079	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-15-214	AI83098	0.1	10/06/2013		0.04	81	<0.05	0.0057	<0.00008	0.0041	<0.0005	0.015	<0.001	0.0012	0.007	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-15-216	AI83099	0.1	11/06/2013		<0.01	97	<0.05	0.0044	<0.00008	0.004	<0.0005	0.015	<0.001	<0.001	0.0078	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-15-218	AI83100	0.1	11/06/2013		0.04	76	<0.05	0.0053	<0.00008	0.0046	<0.0005	0.014	0.0012	<0.001	0.0076	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-29-301			19/06/2013		0.03	3.5	<0.05	<0.001	<0.00008	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03
cslt-31-303			19/06/2013		0.09	12	<0.05	<0.001	<0.00008	<0.001	<0.0005	0.0016	<0.001	<0.001	<0.001	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.03

Table F6: Laboratroy Alalysis Results for Soils Placed in PDZ15 Sourced from the Warm Up Track

Description	SSAC Soils HH	SSAC Soils CW	SSAC Soils Min	No > SSAC	Average	Units	MAX VALUE	FV306449	FV306450	FV306451	FV306452	FV306453	FV306454	FV306455	FV306456	FV306457	FV423366	FV423367	FV423368	FV423370	FV423371	FV423372	FV423373	FV423374	FV306587	FV306588	FV306589	FV306590	FV306591	FV306592	FV306593	FV306594	FV306595	FV306596	FV306597	FV306598	FV306600	FV306601	FV306602	FV306603	FV306604	FV306605	FV306676
Asbestos [based on mean]	0 001		0 001	0	0 001	%	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	0 001	NA
Arsenic	131	20	20	1	11 67837838	mg/kg	51 3	9 5	7 8	8	9 1	8 2	7 2	6 9	7 8	7 2	13 5	10 7	10 6	16 5	12 3	10	9 3	10 2	11 8	8 4	8 1	8 8	8 3	8 8	11 2	8 1	10 4	8 8	8 7	8 6	8 2	9 7	8 5	8 4	9 8	9 1	51 3
Cadmium	252	1	1	1	0 325405405	mg/kg	1 74	0 22	0 2	0 3	0 2	0 25	<0 21	0 2	0 24	0 29	0 29	0 26	0 23	0 53	0 28	0 24	<0 2	0 27	0 33	0 2	<0 2	0 52	<0 2	0 22	<0 2	0 27	<0 2	0 23	<0 2	0 23	0 22	0 22	<0 2	0 29	0 21	0 3	0 23	1 74
Chromium	846	130	130	0	23 26216216	mg/kg	34 7	29 2	33	18	20 4	24	18 8	18 2	23 3	19	33 1	26 1	24 2	34 7	27 4	29 4	27 6	26 3	23 4	20 1	19 1	21 7	19 9	19 5	20 7	20	19 1	20 4	24 8	23	20 1	17 8	21 9	17 6	20 2	19	25
Lead	750	450	450	1	156 2567568	mg/kg	609 3	117 6	109 9	97 3	89 5	102 3	70 4	114 9	114 5	84	154 3	183 6	188 1	174	112	104	128 6	130	175 9	88 2	109 7	245 4	103	121 9	160	81 3	84 1	104 5	112 3	609 3	115	102 8	119 2	128 9	350 6	57 2	228 9
Mercury	7 30E+01	8	8	0	0 565135135	mg/kg	1 26	<0 51	<0 52	<0 5	<0 52	<0 5	<0 54	<0 5	<0 5	<0 47	0 66	<0 52	1 26	0 7	<0 51	<0 52	0 73	<0 5	<0 51	<0 5	<0 51	<0 51	<0 51	<0 5	<0 51	<0 51	<0 51	<0 5	<0 52	<0 51	<0 51	<0 5	<0 5	<0 51	<0 51	<0 51	0 55
N otel	328	50	50	0	18 25945946	mg/kg	36 5	17	15 4	14 5	15 5	18 9	14 9	13 3	15 7	14 6	24 9	18 5	19	24	20 1	19 3	21 6	18 6	19 7	15 1	15	16 4	15 1	16 9	16 8	15	16 3	15 7	18	16 4	15 9	14 1	18 3	15	36 5	19 1	18
Selenium	1190	35	35	0	0 994594595	mg/kg	1 8	1 7	1 6	1 4	1 6	1 8	1 7	1 3	1 5	1 5	1 2	0 8	0 9	1 1	0 9	0 7	1	0 7	0 9	0 6	0 7	0 8	0 6	0 8	0 7	0 5	0 8	0 8	0 8	0 6	0 6	0 5	0 7	0 5	0 7	1 4	0 6
Benzene	2200	50	50	0	5 702702703	ug kg	6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<6
Toluene	198000	7000	7000	0	6 189189189	ug kg	9	<6	<6	<6	<6	<6	<6	<6	<6	<6	8	<6	<6	<6	<6	<6	<6	<6	7	6	6	6	8	7	5	6	9	5	<5	5	<5	5	5	<5	8	<6	<6
Ethylbenzene	753000	21000	21000	0	5 702702703	ug kg	6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<6
m & p Xylene	6720000	9800	9800	0	5 945945946	ug kg	8	7	<6	<6	<6	<6	<6	<6	<6	<6	8	<6	<6	<6	<6	<6	<6	<6	7	<6	<6	<6	<6	<5	<6	<5	<5	<5	7	<5	<5	<5	<5	<5	<6	<5	<6
o Xylene	6720000	9800	9800	0	5 702702703	ug kg	6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<6
otal Petroleum Hydrocarbons (C5 C6 alipha ic)	120	14	14	0	0 2	mg/kg	0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2
otal Petroleum Hydrocarbons (C6 C8 aliphatic)	4100000	35	35	0	0 2	mg/kg	0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2
otal Petroleum Hydrocarbons (C8 C10 alipha ic)	83	8 2	8 2	0	0 2	mg/kg	0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2	<0 2
Total Petroleum Hydrocarbons (C6 C12 al phatic)	9000	42	42	0	4 507297297	mg/kg	5	<5	<5	<5	<4	<5	<5	<5	<5	<4	<5	<5	<5	<5	<5	<5	<5	<4 6	<5	<5	<4	<4 7	<4	<4	<4	<4	<4	<4	<4	<4 47	<4	<4	<4	<4	<4	<4
Total Petroleum Hydrocarbons (C12 C16 al phatic)	9200	291	291	0	6 847567568	mg/kg	15 8	4 73	5 09	5 66	6 36	11 5	4 99	15 8	8 55	<5	10 9	5 47	8 13	8 58	9 08	13 7	6 11	9 81	7 2	<4	<5	4 58	7 03	<4	6 06	<4	<4	4	4 68	<4	4 63	10	6 87	<4	<4	<4	6 05
otal Petroleum Hydrocarbons (C16 C21 al phatic)	130000	50000	50000	0	21 52837838	mg/kg	41	16 8	19 2	18 2	21 7	27 4	15 4	37 5	23 1	5 15	22 9	16 9	21 8	21 5	27 6	41	17 8	22 6	21 8	16 5	15 1	19 8	25 3	16 5	20 6	17	18 6	16 6	23 6	14 4	22 8	34 2	26 3	17	16 4	16 8	19 7
otal Petroleum Hydrocarbons (C35 al phatic)	1300000	50000	50000	0	100 67297	mg/kg	317	67 6	83	73	75 2	82 9	56 3	118	88 8	31	78 6	79 4	79 2	88 5	162	80 4	79 5	90 4	80 4	77	89 9	113	106 5	81 7	98 1	91 3	83 3	79 4	317	69 7	92 4	111	168	90 4	99 7	65	80 3
otal Petroleum Hydrocarbons (C5 C7 aromatic)	27	0 05	0 05	0	0 01	mg/kg	0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01
otal Petroleum Hydrocarbons (C7 C8 aromat c)	83	7	7	0	0 01	mg/kg	0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01	<0 01
Total Petroleum Hydrocarbons (C8 C10 aromat c)	140	13	13	0	4 459459459	mg/kg	5	<5	<5	<5	<4	<5	<5	<5	<5	<4	<5	<5	<5	<5	<5	<5	<5	<4	<5	<5	<4	<5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Petroleum Hydrocarbons (C10 C12 aroma ic)	3330	72	72	0	4 459459459	mg/kg	5	<5	<5	<5	<4	<5	<5	<5	<5	<4	<5	<5	<5	<5	<5	<5	<5	<4	<5	<4	<5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Petroleum Hydrocarbons (C12 C16 aroma ic)	3700	330	330	0	5 334864865	mg/kg	9 56	<5	4 64	<4	5 43	7 86	<5	8 99	8 6	<5	<5	<5	7 52	5 42	5 64	<5	8 32	5 98	<5	<4	<5	4 5	4	<4	<4	<4	<4	<4	<4	6 39	9 56	<4	<4	4 98	<4
Total Petroleum Hydrocarbons (C16 C21 aroma ic)	2000	1978	1978	0	17 00324324	mg/kg	34 9	10 13	18 6	12 9	19	20 3	7 32	27 6	20 9	<5	14 4	12 9	26 3	17 7	23 4	9 29	21 1	20 7	14 7	11 4	12 4	16 7	16 2	16 4	15	12 8	13 8	11 4	16 8	9 18	15	33 4	34 9	14 1	16 2	12 3	14
Total Petroleum Hydrocarbons (C21 C35 aroma ic)	2000	1978	1978	0	90 18378378	mg/kg	282	50 6	80 5	68 7	66	67 3	38 9	107 3	86 5	19 7	58 7	60 5	84 1	77 9	174	45 9	73 2	71 4	61 1	55 8	65	100	91 8	94 4	81 9	68 1	79 5	65 5	282	58 4	74 5	128	188	89 2	105 5	59 8	67 1
Acenaphthylene	5 50E+03	1	1	0	0 104324324	mg/kg	0 31	<0 09	<0 09	<0 09	<0 09	<0 09	<0 1	<0 1	<0 09	<0 1	<0 09	<0 1	0 14	<0 09	<0 09	<0 09	0 1	<0 09	<0 09	<0 09	<0 09	<0 09	<0 09	<0 1	<0 09	<0 09	<0 09	<0 08	<0 09	<0 08	<0 08	0 09	0 31	<0 09	0 1	<0 09	<0 09
Acenaphthene	5 50E+03	12	12	0	0 117567568	mg/kg	0 27	<0 09	<0 09	<0 09	<0 09	<0 09	<0 1	0 15	<0 09	<0 1	0 1	0 1	0 22	<0 09	0 13	<0 09	0 27	0 15	<0 09	<0 09	0 1	<0 09	<0 09	<0 09	0 1	<0 08	<0 09	<0 08	<0 08	0 24	0 17	<0 09	0 17	<0 09	0 17	<0 09	0 17
Anthracene	2 80E-04	2800	2800	0	0 280540541	mg/kg	0 93	0 17	0 18	0 1	0 15	0 15	<0 1	0 37	0 17	<0 1	0 28	0 25	0 39	0 42	0 2	0 1	0 3	0 27	0 14	0 18	0 15	0 3	0 43	0 26	0 21	0 15	0 2	0 18	0 13	0 14	0 18	0 49	0 93	0 27	0 34	0 13	0 2
Benzo (a) anthracene	45	7 2	7 2	0	0 653513514	mg/kg	2 36	0 54	0 75	0 47	0 6	0 44	0 25	1 05	0 54	0 19	0 49	0 63	0 79	0 49	0 57	0 3	0 67	0 47	0 45	0 43	0 41	0 63	0 53	0 88	0 54	0 4	0 56	0 46	0 42	0 35	0 51	0 9	2 36	0 8	0 87	0 38	0 7
Benzo (a) pyrene	6 6	1 3	1 3	1	0 624864865	mg/kg	2 1	0 53	0 66	0 42	0 55	0 39	0 23	0 82	0 46	0 14	0 53	0 58	0 79	0 5	0 53	0 3	0 61	0 44	0 48	0 4	0 36	0 7	0 52	1 04	0 53	0 4	0 55	0 5	0 51	0 35	0 51	0 82	2 1	0 76	0 93	0 37	0 71
Benzo (b) fluoranthene	47	16	16	0	0 73027027	mg/kg	2 28	0 63	0 82	0 51	0 67	0 48	0 26	1 05	0 58	0 19	0 65	0 75	0 87	0 58	0 7	0 39	0 69	0 57	0 55	0 53	0 49	0 75	0 63	1 04	0 64	0 47	0 64	0 49	0 4	0 64	0 9	2 28	0 9	1 03	0 4	1 03
Benzo (k) fluoran hene	66	16	16	0	0 272702703	mg/kg	0 82	0 29	0 3	0 21	0 25	0 2	<0 1	0 43	0 2	<0 1	0 3	0 35	0 29	0 2	0 31	0 21	0 27	0 26	0 18	0 19	0 15	0 25	0 24	0 38	0 23	0 17	0 2	0 2	0 16	0 15	0 22	0 32	0 82	0 31	0 37	0 16	0 3
Benzo (ghi) pery ene	2800	1970	1970	0	0 443783784	mg/kg	1 21	0 39	0 49	0 31	0 42	0 33	0 19	0 6	0 36	0 14	0 39	0 44	0 61	0 38	0 48	0 21	0 52	0 3	0 38	0 32	0 27	0 52	0 4	0 68	0 38	0 3	0 38	0 35	0 35	0 24	0 38	0 52	1 21	0 5	0 62	0 27	0 58
Chrysene	66	32	32	0	0 594594594	mg/kg	1 92	0 37	0 49	0 33	0 42	0 3	0 15	0 74	0 39	0 14	0 53	0 5	0 68	0 45	0 45	0 2	0 53	0 38	0 42	0 4	0 39	0 61	0 51	0 79	0 5	0 38	0 5	0 4	0 43	0 3	0 48	0 81	1 92	0 68	0 79	0 34	0 71
D benzo (ah) anthracene	6 6	1 3	1 3	0	0 105405405	mg/kg	0 28	0 09	0 1	<0 09	0 09	<0 09	<0 1	0 1	<0 09	<0 1	<0 09	<0 1	<0 09	<0 09	<0 09	<0 09	<0 1	<0 09	<0 09	<0 09	<0 09	0 15	<0 09	<0 09	<0 09	<0 09	<0 09	<0 08	<0 09	<0 08	<0 08	0 12	0 28	0 12	0 13	<0 09	<0 09
ndeno (1 2 3 cd) pyrene	28	16	16	0	0 454864865	mg/kg	1 43	0 42	0 51	0 3	0 44	0 4	0 19	0 62	0 37	0 14	0 32	0 41	0 45	0 32	0 39	0 19	0 38	0 3	0 38	0 35	0 28	0 53	0 42	0 67	0 41	0 3	0 42	0 38	0 35	0 27	0 4	0 55	1 43	0 56	0 68	0 29	0 58
Fluoranthene	3700	95	95	0	1 383243243	mg/kg	5 73	1 05	1 47	0 83	1 14	0 9	0 43	2 39	1	0 34	0 96	1 35	1 46	1 08	1 21	0 62	1 3	1 27	0 8	0 9	0 82	1 44	1 06	1 53	1 11	0 84	1 31	0 95	0 63	0 72	1 06	2 3	5 73	1 48	1 76	0 72	1 49
Fluorene	3700	2600	2600	0	0 102972973	mg/kg	0 21	<0 09	<0 09	<0 09	<0 09	<0 09	<0 1	<0 1	<0 09	<0 1	<0 09	<0 1	<0 09	<0 09	<0 09	<0 09	<0 1	<0 09	<0 09	<0 09	<0 09	0 1	<0 09	0 1	<0 09	<0 09	<0 09	<0 08	<0 09	<0 08	<0 08	<0 09	0 21	<0 09	0 1	<0 09	<0 09
Naphthalene	360	5 6	5 6	0	0 110810811	mg/kg	0 3	<0 09	<0 09	<0 09	<0 09	0 16	<0 1	0 1	<0 09	<0 1	0 15	0 1	0 3	<0 09	0 2	<0 09	0 16	<0 09	<0 09	<0 09	0 1	0 09	<0 09	0 1	<0 09	<0 09	<0 09	<0 08	<0 09	<0 08	<0 08	<0 09	<0 09	<0 09	0 1	<0 09	<0 09
Phenanthrene	2800	1970	1970	0	0 747297297	mg/kg	3 01	0 5	0 51	0 29	0 51	0 49	0 26	1 59	0 64	0 17	0 43	0 75	0 89	0 66	0 56	0 32	0 73	0 81	0 42	0 52	0 47	0 72	0 5	0 82	0 65	0 46	0 91	0 58	0 32	0 34	0 56	1 59	3 01	0 62	1	0 4	0 64
Pyrene	2800	1500	1500	0	1 195675676	mg/kg	4 42	0 94	1 36	0 89	1 04	0 77	0 38	1 89	0 97	0 29	0 97	1 12	1 91	0 96	1 04	0 53	1 44	1 03	0 69	0 74	0 69	1 25	0 96	1 43	0 93	0 72	1	0 81	0 68	0 6	0 88	1 86	4 42	1 28	1 52	0 63	1 2
enzo(a)anoe hene	1500	1500	1500	0	28 18918919	ug kg	30	<29	<29	<28	<29	<29	<30	<30	<28	<30	<28	<30	<29	<29	<30	<30	<28	<28	<29	<28	<28	<28	<27	<27	<28	<27	<27	<26	<27	<26	<26	<27	<27	<27	<28	<27	<28
1 1 2 Tetrach oroethane	231000	6600	6600	0	5 702702703	ug kg	6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<6
1 2 2 Tetrach oroethane	231000	6600	6600	0	5 702702703	ug kg	6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<6
richloroethene	8330	170	170	0	5 702702703	ug kg	6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<6
1 1 Tr ch oroethane	231000	15000	15000	0	5 702702703	ug kg	6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<6
2 Ch oroethane	526	10	10	0	5 702702703	ug kg	6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<6
Carbon tetrachloride	3260	2100	2100	0	5 702702703	ug kg	6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<6
Vinyl Ch oride	137	2	2	36	5 702702703	ug kg	6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<5	<6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<6
Phenol	26300	50000	26300	0	0 32972973	mg/kg	0 4	<0 3	<0 3	<0 3	<0 4	<0 4	<0 4	<0 4	<0 3	<0 4	<0 3	<0 4	<0 3	<0 4	<0 4	<0 4	<0 4	<0 3	<0 3	<0 4	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3	<0 3

Notes:

1 The ndividual samp e resu ts were reviewed and the maximum va ue is recorded for each contaminant with a criter a value Where he maximum value exceeds the criteria va ue the ind v dual sample results have been listed for a more deta led assessment

2 The criter a u sed above is from the fo lowing documents: 0241 ENW NPK CM REP 0001 and REP WYG CM CZ7a XXX XXX E 4003 as noted wi hin the Queen Elizabeth Olympic Park (QEOP) Legacy Transformation Remedial on Impact Assessment (LC401 LCI APK CM REP 0002)

3 In order to uti is ng condit onal forma ting the '<' sign has been removed from resu ts

4 The vinyl chloride cr teria was rev sed vinyl chlor de to 5ug/kg as presented within enabling works PMI ATK PM ZZZ ZZZ ZZZ E 2678

Description	SSAC - Leachate	No > SSAC	Mean	Units	FV306449	FV306450	FV306451	FV306452	FV306453	FV306454	FV306455	FV306456	FV306457	FV423366	FV423367	FV423368	FV423369	FV423370	FV423371	FV423372	FV423373	FV423374
Arsenic	1.43E-01	0	0 004	mg/L	0 005	0.002	0.003	0 003	0.009	0.004	0 001	0 004	0.005	0.003	0 004	0 007	0.002	0 006	0 004	0.004	0.009	0 005
Cadmium	6.15E-02	0	0 000	mg/L	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0 0001	<0.0001	<0.0001	<0 0001
Chromium	5 00E-02	0	0 012	mg/L	0 007	0.008	0.006	0 013	0.005	0.004	0 004	0 005	0.006	0.042	0.05	0 007	0.005	0 005	0 028	0.007	0.006	0 011
Copper	2.87E+01	0	0 015	mg/L	0 013	0.013	0.011	0 014	0.02	0.012	0 015	0 017	0.011	0.015	0 023	0 013	0.011	0 013	0 014	0.012	0.016	0 019
Lead	3 58E-01	0	0 001	mg/L	<0.001	<0 001	<0 001	<0.001	<0.001	<0 001	0 002	<0.001	0.001	<0 001	0 001	<0.001	<0 001	<0.001	<0.001	0.001	0.001	0 004
Mercury	1 23E-02	0	0 000	mg/L	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0 0001	<0.0001	<0.0001	<0 0001	<0.0001	<0.0001	<0 0001	<0 0001	<0.0001	<0.0001	<0 0001
Nickel	2 00E-01	0	0 003	mg/L	0 007	0.001	0.002	0 003	0.003	0.002	0 002	0 003	0.002	0.002	0 003	0 001	0.003	0 002	0 002	0.003	0.002	0 006
Selenium	1.43E-01	0	0 005	mg/L	0 005	0.002	0.003	0 005	0.004	0.007	0 003	0 004	0.004	0.005	0 003	0 009	0.006	0 007	0 003	0.004	0 01	0 005
Zinc	7.17E+01	0	0 024	mg/L	0 015	0.033	0.019	0 024	0.016	0.019	0 067	0 022	0.013	0.037	0 015	0 009	0.055	0 014	0 016	0.019	0.009	0 023
Ammoniacal Nitrogen	13.7	0	0 306	mg/L	0.12	0 07	0 09	0.1	1 3	0.19	0.16	0.14	0.11	0.2	1.1	0.21	0.16	0 23	0.4	0 3	0.4	0.22
Sulphate	3580	0	131 944	mg/L	105	40	101	99	180	167	77	135	165	94	128	153	95	155	150	171	204	156
Acenaphthylene	424000	0	0 030	ug/L	0 016	0.011	0.011	0 016	0.01	<0.01	0.188	0 023	0.021	0 01	0.142	0 012	<0.01	<0.011	<0 01	<0.01	<0.01	<0 01
Acenaphthene	1.72E+05	0	0 391	ug/L	0 093	0.058	0.112	0.151	0.086	0.078	0 634	0 383	0.133	0.154	4.64	0 047	0.137	0 06	0 033	0.088	0.068	0 083
Anthracene	5.50E+02	0	0 034	ug/L	0 032	0.019	0 02	0 035	0.021	0.016	0 045	0 039	0.061	0.015	0.157	0 033	0.011	<0.011	<0 01	0.012	0.062	0 017
Benzo (a) anthracene	6.89E+02	0	0 015	ug/L	<0 01	0.018	<0.01	0 033	<0 01	<0.01	<0.01	<0 01	0.034	<0.01	<0 01	0.03	<0.01	<0 011	<0 01	<0 01	<0.01	0 026
Benzo (a) pyrene	0.768	0	0 010	ug/L	<0 01	<0.01	<0.01	<0 01	<0 01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0 01	<0.01	<0 011	<0 01	<0 01	<0.01	0 016
Benzo (b) fluoranthene	5.35E+00	0	0 011	ug/L	<0 01	<0.01	<0.01	<0 01	<0 01	<0.01	<0.01	<0 01	0.014	<0.01	<0 01	<0 01	<0.01	<0 011	<0 01	<0 01	<0.01	0 021
Benzo (k) fluoranthene	2.28E+00	0	0 010	ug/L	<0 01	<0.01	<0.01	<0 01	<0 01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0 01	<0.01	<0 011	<0 01	<0 01	<0.01	<0.01
Benzo (ghi) perylene	4.28E+00	0	0 010	ug/L	<0 01	<0.01	<0.01	<0 01	<0 01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0 01	<0.01	<0 011	<0 01	<0 01	<0.01	0 012
Chrysene	3.68E+02	0	0 012	ug/L	<0 01	0 01	<0.01	0 024	<0 01	<0.01	<0.01	<0 01	0.019	<0.01	<0 01	0.02	<0.01	<0 011	<0 01	<0 01	<0.01	0 019
Dibenzo (ah) anthracene	3.86E+02	0	0 010	ug/L	<0 01	<0.01	<0.01	<0 01	<0 01	<0.01	<0.01	<0 01	<0.01	<0.01	<0 01	<0 01	<0.01	<0 011	<0 01	<0 01	<0.01	<0.01
Fluoranthene	1.09E+03	0	0 046	ug/L	0 043	0.046	0.049	0 069	0.046	0.032	0 032	0 035	0.133	0.027	0 037	0 094	<0.01	0 026	0 018	0.023	0.055	0 049
Fluorene	7.40E+05	0	0 051	ug/L	0 023	0.011	0.012	0.03	0.015	0.015	0.149	0 056	0.038	0.016	0.461	0 015	0.016	<0.011	<0 01	<0.01	0.011	<0 01
Phenanthrene	1.18E+04	0	0 085	ug/L	0 084	0 06	0.044	0.123	0.056	0.053	0.195	0.131	0.178	0.028	0 347	0 075	0.021	0 013	0 011	0.024	0.049	0 031
Pyrene	2.63E+02	0	0 038	ug/L	0.04	0 04	0 04	0.09	0.04	0 03	0.03	0.03	0.1	0 02	0.02	0.07	0 01	0 02	0.01	0 02	0 04	0.04
Phenol	4.93E+03	0	0 001	ug/L	0.0011	0 0009	0.0007	0 001	<0.0005	<0.0005	0.0008	<0 0005	0 0006	0.001	<0 0005	<0.0005	<0.0005	<0 0005	<0 0005	<0.0005	<0.0005	<0 0005

Notes

1. The sample results have been compared to the CZ7a Addendum No. 1 to SSRS V5.1 Criteria [DCR-WYG-CM-07a-XXX-XXX-E-4003, Table 3 Revised Leachate Deposit Material Criteria (General Fill & Separation Layer) to be protective of controlled waters (all determinants except volatiles)].

Outlier Tests for Selected Variables

User Selected Options	
From File	C:\Users\[redacted]\Documents\Capita\ProUCL 112 SAMPLES WITHOUT OUTLIERS v1
Full Precision	OFF
Test for Suspected Outliers with Dixon test	1
Test for Suspected Outliers for Rosner test	1

Rosner's Outlier Test for Dibenzo(ah)anthracene

Mean	0.492
Standard Deviation	1.414
Number of data	82
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	0.492	1.405	13	74	8.903	3.318	3.68

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 13 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Therefore, Observation 13 is a Potential Statistical Outlier

Rosner's Outlier Test for Indeno(1,2,3-cd)pyrene

Mean	1.442
Standard Deviation	5.634
Number of data	104
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	1.442	5.607	58	93	10.09	3.391	3.761

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 58 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Therefore, Observation 58 is a Potential Statistical Outlier

Rosner's Outlier Test for Arsenic

Mean	15.88
Standard Deviation	14.53
Number of data	112
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	15.88	14.47	150	23	9.269	3.414	3.784

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 150 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Therefore, Observation 150 is a Potential Statistical Outlier

Rosner's Outlier Test for Lead

Mean	217.4
Standard Deviation	202
Number of data	112
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	217.4	201.1	1200	108	4.887	3.414	3.784

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 1200 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Therefore, Observation 1200 is a Potential Statistical Outlier

Rosner's Outlier Test for Benzo(a)anthracene

Mean	2.157
Standard Deviation	10.31
Number of data	112
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	2.157	10.27	110	100	10.5	3.414	3.784

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 110 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Therefore, Observation 110 is a Potential Statistical Outlier

Rosner's Outlier Test for Chrysene

Mean	2.464
Standard Deviation	12.2
Number of data	112
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	2.464	12.14	130	100	10.5	3.414	3.784

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 130 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Therefore, Observation 130 is a Potential Statistical Outlier

Rosner's Outlier Test for Benzo(b)fluoranthene

Mean	2.036
Standard Deviation	7.591
Number of data	112
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	2.036	7.557	81	100	10.45	3.414	3.784

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 81 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Therefore, Observation 81 is a Potential Statistical Outlier

Rosner's Outlier Test for Benzo(k)fluoranthene

Mean	1.628
Standard Deviation	6.644
Number of data	112
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	1.628	6.614	71	100	10.49	3.414	3.784

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 71 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Therefore, Observation 71 is a Potential Statistical Outlier

Rosner's Outlier Test for Benzo(a)pyrene

Mean	1.932
Standard Deviation	7.618
Number of data	111
Number of suspected outliers	1

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	1.932	7.584	81	99	10.43	3.411	3.781

For 5% Significance Level, there is 1 Potential Outlier											
Therefore, Observation 81 is a Potential Statistical Outlier											
For 1% Significance Level, there is 1 Potential Outlier											
Therefore, Observation 81 is a Potential Statistical Outlier											

General UCL Statistics for Data Sets with Non-Detects

User Selected Options	
From File	C:\Users[redacted]\Documents\Capita\ProUCL 112 SAMPLES WITH OUTLIERS.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Dibenzo(ah)anthracene

General Statistics

Number of Valid Data	112	Number of Detected Data	82
Number of Distinct Detected Data	46	Number of Non-Detect Data	30
		Percent Non-Detects	26.79%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.1	Minimum Detected	-2.303
Maximum Detected	13	Maximum Detected	2.565
Mean of Detected	0.492	Mean of Detected	-1.216
SD of Detected	1.414	SD of Detected	0.732
Minimum Non-Detect	0.1	Minimum Non-Detect	-2.303
Maximum Non-Detect	0.1	Maximum Non-Detect	-2.303

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.395	Lilliefors Test Statistic	0.0745
5% Lilliefors Critical Value	0.0978	5% Lilliefors Critical Value	0.0978
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.373	Mean	-1.693
SD	1.223	SD	1.008
95% DL/2 (t) UCL	0.565	95% H-Stat (DL/2) UCL	0.378
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	0.0715	Mean in Log Scale	-1.655
SD	1.462	SD in Log Scale	0.987
95% MLE (t) UCL	0.301	Mean in Original Scale	0.377
95% MLE (Tiku) UCL	0.305	SD in Original Scale	1.223
		95% t UCL	0.569
		95% Percentile Bootstrap UCL	0.599
		95% BCA Bootstrap UCL	0.763
		95% H UCL	0.382
Gamma Distribution Test with Detected Values Only		**Data Distribution Test with Detected Values Only**	
k star (bias corrected)	1.091	Data appear Lognormal at 5% Significance Level	
Theta Star	0.451		
nu star	178.9		
A-D Test Statistic	6.395	**Nonparametric Statistics**	
5% A-D Critical Value	0.779	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.779	Mean	0.387
5% K-S Critical Value	0.101	SD	1.215
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.115
		95% KM (t) UCL	0.578

Assuming Gamma Distribution			
Gamma ROS Statistics using Extrapolated Data		95% KM (z) UCL	0.577
Minimum	1.0000E-6	95% KM (jackknife) UCL	0.578
Maximum	13	95% KM (bootstrap t) UCL	1.259
Mean	0.36	95% KM (BCA) UCL	0.627
Median	0.2	95% KM (Percentile Bootstrap) UCL	0.616
SD	1.227	95% KM (Chebyshev) UCL	0.89
k star	0.206	97.5% KM (Chebyshev) UCL	1.108
Theta star	1.75	99% KM (Chebyshev) UCL	1.536
Nu star	46.09	Potential UCLs to Use	
AppChi2	31.51	95% KM (BCA) UCL	0.627
95% Gamma Approximate UCL (Use when n >= 40)	0.527		
95% Adjusted Gamma UCL (Use when n < 40)	0.529		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Indeno(1,2,3-cd)pyrene

General Statistics			
Number of Valid Data	112	Number of Detected Data	104
Number of Distinct Detected Data	61	Number of Non-Detect Data	8
		Percent Non-Detects	7.14%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.12	Minimum Detected	-2.12
Maximum Detected	58	Maximum Detected	4.06
Mean of Detected	1.442	Mean of Detected	-0.264
SD of Detected	5.634	SD of Detected	0.748
Minimum Non-Detect	0.1	Minimum Non-Detect	-2.303
Maximum Non-Detect	0.1	Maximum Non-Detect	-2.303

UCL Statistics			
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.407	Lilliefors Test Statistic	0.114
5% Lilliefors Critical Value	0.0869	5% Lilliefors Critical Value	0.0869
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.343	Mean	-0.459
SD	5.439	SD	1.009
95% DL/2 (t) UCL	2.195	95% H-Stat (DL/2) UCL	1.302
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	1.047	Mean in Log Scale	-0.38
SD	5.654	SD in Log Scale	0.837
95% MLE (t) UCL	1.933	Mean in Original Scale	1.35
95% MLE (Tiku) UCL	1.848	SD in Original Scale	5.437
		95% t UCL	2.202
		95% Percentile Bootstrap UCL	2.362
		95% BCA Bootstrap UCL	3.289
		95% H UCL	1.144

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.905	Data do not follow a Discernable Distribution (0.05)	
Theta Star	1.594		
nu star	188.2		
A-D Test Statistic	9.615E+28	Nonparametric Statistics	
5% A-D Critical Value	0.787	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.787	Mean	1.348
5% K-S Critical Value	0.0913	SD	5.414
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.514
		95% KM (t) UCL	2.2
Assuming Gamma Distribution		95% KM (z) UCL	2.193
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	2.197
Minimum	1.0000E-6	95% KM (bootstrap t) UCL	6.985
Maximum	58	95% KM (BCA) UCL	2.398
Mean	1.339	95% KM (Percentile Bootstrap) UCL	2.356
Median	0.65	95% KM (Chebyshev) UCL	3.588
SD	5.44	97.5% KM (Chebyshev) UCL	4.557
k star	0.422	99% KM (Chebyshev) UCL	6.462
Theta star	3.174		
Nu star	94.49	Potential UCLs to Use	
AppChi2	73.07	95% KM (BCA) UCL	2.398
95% Gamma Approximate UCL (Use when n >= 40)	1.731		
95% Adjusted Gamma UCL (Use when n < 40)	1.737		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Arsenic

General Statistics

Number of Valid Observations	112	Number of Distinct Observations	40

Raw Statistics		Log-transformed Statistics	
Minimum	6.1	Minimum of Log Data	1.808
Maximum	150	Maximum of Log Data	5.011
Mean	15.88	Mean of log Data	2.623
Geometric Mean	13.78	SD of log Data	0.454
Median	13		
SD	14.53		
Std. Error of Mean	1.373		
Coefficient of Variation	0.915		
Skewness	7.403		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.272	Lilliefors Test Statistic	0.117
Lilliefors Critical Value	0.0837	Lilliefors Critical Value	0.0837
Data not Normal at 5% Significance Level			
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	18.16	95% H-UCL	16.52
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	18.26

95% Adjusted-CLT UCL (Chen-1995)	19.17	97.5% Chebyshev (MVUE) UCL	19.55
95% Modified-t UCL (Johnson-1978)	18.32	99% Chebyshev (MVUE) UCL	22.09

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.592	Data do not follow a Discernable Distribution (0.05)	
Theta Star	4.422		
MLE of Mean	15.88		
MLE of Standard Deviation	8.38		
nu star	804.6		
Approximate Chi Square Value (.05)	739.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0479	95% CLT UCL	18.14
Adjusted Chi Square Value	739	95% Jackknife UCL	18.16
		95% Standard Bootstrap UCL	18.08
Anderson-Darling Test Statistic	4.639	95% Bootstrap-t UCL	20.64
Anderson-Darling 5% Critical Value	0.757	95% Hall's Bootstrap UCL	27.72
Kolmogorov-Smirnov Test Statistic	0.175	95% Percentile Bootstrap UCL	18.33
Kolmogorov-Smirnov 5% Critical Value	0.0868	95% BCA Bootstrap UCL	19.6
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	21.87
		97.5% Chebyshev(Mean, Sd) UCL	24.46
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	29.55
95% Approximate Gamma UCL (Use when n >= 40)	17.27		
95% Adjusted Gamma UCL (Use when n < 40)	17.29		
Potential UCL to Use		Use 95% Student's-t UCL	18.16
		or 95% Modified-t UCL	18.32

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Lead

General Statistics

Number of Valid Observations	112	Number of Distinct Observations	43

Raw Statistics		Log-transformed Statistics	
Minimum	28	Minimum of Log Data	3.332
Maximum	1200	Maximum of Log Data	7.09
Mean	217.4	Mean of log Data	5.155
Geometric Mean	173.3	SD of log Data	0.606
Median	155		
SD	202		
Std. Error of Mean	19.08		
Coefficient of Variation	0.929		
Skewness	3.134		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.295	Lilliefors Test Statistic	0.139
Lilliefors Critical Value	0.0837	Lilliefors Critical Value	0.0837
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	249.1	95% H-UCL	232.4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	264
95% Adjusted-CLT UCL (Chen-1995)	254.8	97.5% Chebyshev (MVUE) UCL	288.3

95% Modified-t UCL (Johnson-1978)	250	99% Chebyshev (MVUE) UCL	336

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.302	Data do not follow a Discernable Distribution (0.05)	
Theta Star	94.46		
MLE of Mean	217.4		
MLE of Standard Deviation	143.3		
nu star	515.5		
Approximate Chi Square Value (.05)	463.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0479	95% CLT UCL	248.8
Adjusted Chi Square Value	463.3	95% Jackknife UCL	249.1
		95% Standard Bootstrap UCL	247.8
Anderson-Darling Test Statistic	7.75	95% Bootstrap-t UCL	260.1
Anderson-Darling 5% Critical Value	0.763	95% Hall's Bootstrap UCL	256
Kolmogorov-Smirnov Test Statistic	0.195	95% Percentile Bootstrap UCL	250.7
Kolmogorov-Smirnov 5% Critical Value	0.0873	95% BCA Bootstrap UCL	254.7
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	300.6
		97.5% Chebyshev(Mean, Sd) UCL	336.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	407.3
95% Approximate Gamma UCL (Use when n >= 40)	241.6		
95% Adjusted Gamma UCL (Use when n < 40)	241.9		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	300.6

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Benzo(a)anthracene

General Statistics

Number of Valid Observations	112	Number of Distinct Observations	57

Raw Statistics		Log-transformed Statistics	
Minimum	0.13	Minimum of Log Data	-2.04
Maximum	110	Maximum of Log Data	4.7
Mean	2.157	Mean of log Data	0.0332
Geometric Mean	1.034	SD of log Data	0.742
Median	0.965		
SD	10.31		
Std. Error of Mean	0.975		
Coefficient of Variation	4.782		
Skewness	10.48		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.43	Lilliefors Test Statistic	0.138
Lilliefors Critical Value	0.0837	Lilliefors Critical Value	0.0837
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	3.773	95% H-UCL	1.567
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.821
95% Adjusted-CLT UCL (Chen-1995)	4.792	97.5% Chebyshev (MVUE) UCL	2.022
95% Modified-t UCL (Johnson-1978)	3.934	99% Chebyshev (MVUE) UCL	2.416

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.79	Data do not follow a Discernable Distribution (0.05)	
Theta Star	2.729		
MLE of Mean	2.157		
MLE of Standard Deviation	2.426		
nu star	177.1		
Approximate Chi Square Value (.05)	147.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0479	95% CLT UCL	3.76
Adjusted Chi Square Value	146.9	95% Jackknife UCL	3.773
		95% Standard Bootstrap UCL	3.748
Anderson-Darling Test Statistic	8.929E+28	95% Bootstrap-t UCL	18.48
Anderson-Darling 5% Critical Value	0.792	95% Hall's Bootstrap UCL	10.37
Kolmogorov-Smirnov Test Statistic	0.3	95% Percentile Bootstrap UCL	4.11
Kolmogorov-Smirnov 5% Critical Value	0.0896	95% BCA Bootstrap UCL	5.106
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	6.405
		97.5% Chebyshev(Mean, Sd) UCL	8.243
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	11.85
95% Approximate Gamma UCL (Use when n >= 40)	2.593		
95% Adjusted Gamma UCL (Use when n < 40)	2.599		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	6.405

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Chrysene

General Statistics

Number of Valid Observations	112	Number of Distinct Observations	61

Raw Statistics		Log-transformed Statistics	
Minimum	0.18	Minimum of Log Data	-1.715
Maximum	130	Maximum of Log Data	4.868
Mean	2.464	Mean of log Data	0.131
Geometric Mean	1.14	SD of log Data	0.742
Median	1		
SD	12.2		
Std. Error of Mean	1.152		
Coefficient of Variation	4.949		
Skewness	10.49		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.428	Lilliefors Test Statistic	0.135
Lilliefors Critical Value	0.0837	Lilliefors Critical Value	0.0837
Data not Normal at 5% Significance Level		[illegible]	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	4.376	95% H-UCL	1.728
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2.007
95% Adjusted-CLT UCL (Chen-1995)	5.58	97.5% Chebyshev (MVUE) UCL	2.229
95% Modified-t UCL (Johnson-1978)	4.566	99% Chebyshev (MVUE) UCL	2.663

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.759	[illegible]ta do not follow a Discernable Distribution (0.[illegible]

Theta Star	3.249		
MLE of Mean	2.464		
MLE of Standard Deviation	2.829		
nu star	169.9		
Approximate Chi Square Value (.05)	140.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0479	95% CLT UCL	4.36
Adjusted Chi Square Value	140.4	95% Jackknife UCL	4.376
		95% Standard Bootstrap UCL	4.403
Anderson-Darling Test Statistic	8.929E+28	95% Bootstrap-t UCL	21.45
Anderson-Darling 5% Critical Value	0.794	95% Hall's Bootstrap UCL	12.03
Kolmogorov-Smirnov Test Statistic	0.288	95% Percentile Bootstrap UCL	4.761
Kolmogorov-Smirnov 5% Critical Value	0.0897	95% BCA Bootstrap UCL	6.028
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	7.488
		97.5% Chebyshev(Mean, Sd) UCL	9.662
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	13.93
95% Approximate Gamma UCL (Use when n >= 40)	2.975		
95% Adjusted Gamma UCL (Use when n < 40)	2.982		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	7.488

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Benzo(b)fluoranthene

General Statistics

Number of Valid Observations	112	Number of Distinct Observations	60

Raw Statistics		Log-transformed Statistics	
Minimum	0.25	Minimum of Log Data	-1.386
Maximum	81	Maximum of Log Data	4.394
Mean	2.036	Mean of log Data	0.137
Geometric Mean	1.146	SD of log Data	0.701
Median	0.97		
SD	7.591		
Std. Error of Mean	0.717		
Coefficient of Variation	3.729		
Skewness	10.33		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.407	Lilliefors Test Statistic	0.135
Lilliefors Critical Value	0.0837	Lilliefors Critical Value	0.0837
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	3.225	95% H-UCL	1.671
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.929
95% Adjusted-CLT UCL (Chen-1995)	3.963	97.5% Chebyshev (MVUE) UCL	2.131
95% Modified-t UCL (Johnson-1978)	3.342	99% Chebyshev (MVUE) UCL	2.529
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.983	Data do not follow a Discernable Distribution (0.05)	
Theta Star	2.07		
MLE of Mean	2.036		

MLE of Standard Deviation	2.053		
nu star	220.3		
Approximate Chi Square Value (.05)	186.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0479	95% CLT UCL	3.216
Adjusted Chi Square Value	186.5	95% Jackknife UCL	3.225
		95% Standard Bootstrap UCL	3.173
Anderson-Darling Test Statistic	8.929E+28	95% Bootstrap-t UCL	9.932
Anderson-Darling 5% Critical Value	0.783	95% Hall's Bootstrap UCL	7.857
Kolmogorov-Smirnov Test Statistic	0.235	95% Percentile Bootstrap UCL	3.458
Kolmogorov-Smirnov 5% Critical Value	0.0889	95% BCA Bootstrap UCL	4.383
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	5.162
		97.5% Chebyshev(Mean, Sd) UCL	6.515
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.172
95% Approximate Gamma UCL (Use when n >= 40)	2.399		
95% Adjusted Gamma UCL (Use when n < 40)	2.404		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	5.162

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Benzo(k)fluoranthene

General Statistics

Number of Valid Observations	112	Number of Distinct Observations	64

Raw Statistics		Log-transformed Statistics	
Minimum	0.17	Minimum of Log Data	-1.772
Maximum	71	Maximum of Log Data	4.263
Mean	1.628	Mean of log Data	-0.123
Geometric Mean	0.884	SD of log Data	0.709
Median	0.825		
SD	6.644		
Std. Error of Mean	0.628		
Coefficient of Variation	4.081		
Skewness	10.44		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.413	Lilliefors Test Statistic	0.102
Lilliefors Critical Value	0.0837	Lilliefors Critical Value	0.0837
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	2.669	95% H-UCL	1.299
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.501
95% Adjusted-CLT UCL (Chen-1995)	3.322	97.5% Chebyshev (MVUE) UCL	1.66
95% Modified-t UCL (Johnson-1978)	2.772	99% Chebyshev (MVUE) UCL	1.972
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.932	Data do not follow a Discernable Distribution (0.05)	
Theta Star	1.747		
MLE of Mean	1.628		
MLE of Standard Deviation	1.687		
nu star	208.7		

Approximate Chi Square Value (.05)	176.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0479	95% CLT UCL	2.66
Adjusted Chi Square Value	175.9	95% Jackknife UCL	2.669
		95% Standard Bootstrap UCL	2.641
Anderson-Darling Test Statistic	8.929E+28	95% Bootstrap-t UCL	9.863
Anderson-Darling 5% Critical Value	0.785	95% Hall's Bootstrap UCL	6.982
Kolmogorov-Smirnov Test Statistic	0.249	95% Percentile Bootstrap UCL	2.865
Kolmogorov-Smirnov 5% Critical Value	0.0891	95% BCA Bootstrap UCL	3.613
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	4.364
		97.5% Chebyshev(Mean, Sd) UCL	5.548
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	7.874
95% Approximate Gamma UCL (Use when n >= 40)	1.927		
95% Adjusted Gamma UCL (Use when n < 40)	1.932		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	4.364

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Benzo(a)pyrene

General Statistics

Number of Valid Data	112	Number of Detected Data	111
Number of Distinct Detected Data	59	Number of Non-Detect Data	1
		Percent Non-Detects	0.89%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.16	Minimum Detected	-1.833
Maximum Detected	81	Maximum Detected	4.394
Mean of Detected	1.932	Mean of Detected	0.0383
SD of Detected	7.618	SD of Detected	0.755
Minimum Non-Detect	0.1	Minimum Non-Detect	-2.303
Maximum Non-Detect	0.1	Maximum Non-Detect	-2.303

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.408	Lilliefors Test Statistic	0.109
5% Lilliefors Critical Value	0.0841	5% Lilliefors Critical Value	0.0841
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.915	Mean	0.0112
SD	7.586	SD	0.805
95% DL/2 (t) UCL	3.104	95% H-Stat (DL/2) UCL	1.634
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	1.867	Mean in Log Scale	0.0209
SD	7.591	SD in Log Scale	0.774
95% MLE (t) UCL	3.057	Mean in Original Scale	1.916
95% MLE (Tiku) UCL	2.91	SD in Original Scale	7.585
		95% t UCL	3.105
		95% Percentile Bootstrap UCL	3.3
		95% BCA Bootstrap UCL	4.622

		95% H UCL	1.598
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.918	Data do not follow a Discernable Distribution (0.05)	
Theta Star	2.104		
nu star	203.9		
A-D Test Statistic	9.009E+28	Nonparametric Statistics	
5% A-D Critical Value	0.786	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.786	Mean	1.916
5% K-S Critical Value	0.0894	SD	7.552
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.717
		95% KM (t) UCL	3.105
Assuming Gamma Distribution		95% KM (z) UCL	3.095
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	3.105
Minimum	1.0000E-6	95% KM (bootstrap t) UCL	10.15
Maximum	81	95% KM (BCA) UCL	3.383
Mean	1.915	95% KM (Percentile Bootstrap) UCL	3.335
Median	0.97	95% KM (Chebyshev) UCL	5.041
SD	7.586	97.5% KM (Chebyshev) UCL	6.393
k star	0.791	99% KM (Chebyshev) UCL	9.048
Theta star	2.421		
Nu star	177.2	Potential UCLs to Use	
AppChi2	147.4	95% KM (BCA) UCL	3.383
95% Gamma Approximate UCL (Use when n >= 40)	2.302		
95% Adjusted Gamma UCL (Use when n < 40)	2.307		
Note: DL/2 is not a recommended method.			

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

For additional insight, the user may want to consult a statistician.

General UCL Statistics for Data Sets with Non-Detects

User Selected Options	
From File	C:\Users[redacted]\Documents\Capita\ProUCL 112 SAMPLES WITHOUT OUTLIERS v1.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Dibenzo(ah)anthracene

General Statistics

Number of Valid Data	111	Number of Detected Data	81
Number of Distinct Detected Data	45	Number of Non-Detect Data	30
Number of Missing Values	1	Percent Non-Detects	27.03%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.1	Minimum Detected	-2.303
Maximum Detected	1.2	Maximum Detected	0.182
Mean of Detected	0.337	Mean of Detected	-1.263
SD of Detected	0.209	SD of Detected	0.601
Minimum Non-Detect	0.1	Minimum Non-Detect	-2.303
Maximum Non-Detect	0.1	Maximum Non-Detect	-2.303

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.145	Lilliefors Test Statistic	0.0792
5% Lilliefors Critical Value	0.0984	5% Lilliefors Critical Value	0.0984
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.26	Mean	-1.731
SD	0.219	SD	0.927
95% DL/2 (t) UCL	0.294	95% H-Stat (DL/2) UCL	0.329
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	0.227	Mean in Log Scale	-1.641
SD	0.263	SD in Log Scale	0.832
95% MLE (t) UCL	0.269	Mean in Original Scale	0.266
95% MLE (Tiku) UCL	0.27	SD in Original Scale	0.213
		95% t UCL	0.3
		95% Percentile Bootstrap UCL	0.301
		95% BCA Bootstrap UCL	0.3
		95% H UCL	0.323

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	2.885	Data appear Lognormal at 5% Significance Level	
Theta Star	0.117		
nu star	467.4		
A-D Test Statistic	0.924	Nonparametric Statistics	
5% A-D Critical Value	0.759	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.759	Mean	0.273
5% K-S Critical Value	0.0999	SD	0.206
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.0197
		95% KM (t) UCL	0.306

Assuming Gamma Distribution		95% KM (z) UCL	0.306
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	0.306
Minimum	1.0000E-6	95% KM (bootstrap t) UCL	0.308
Maximum	1.2	95% KM (BCA) UCL	0.309
Mean	0.246	95% KM (Percentile Bootstrap) UCL	0.306
Median	0.2	95% KM (Chebyshev) UCL	0.359
SD	0.233	97.5% KM (Chebyshev) UCL	0.396
k star	0.222	99% KM (Chebyshev) UCL	0.469
Theta star	1.107		
Nu star	49.37	Potential UCLs to Use	
AppChi2	34.24	95% KM (BCA) UCL	0.309
95% Gamma Approximate UCL (Use when n >= 40)	0.355		
95% Adjusted Gamma UCL (Use when n < 40)	0.357		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Indeno(1,2,3-cd)pyrene

General Statistics

Number of Valid Data	111	Number of Detected Data	103
Number of Distinct Detected Data	60	Number of Non-Detect Data	8
Number of Missing Values	1	Percent Non-Detects	7.21%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.12	Minimum Detected	-2.12
Maximum Detected	3.4	Maximum Detected	1.224
Mean of Detected	0.893	Mean of Detected	-0.306
SD of Detected	0.622	SD of Detected	0.617
Minimum Non-Detect	0.1	Minimum Non-Detect	-2.303
Maximum Non-Detect	0.1	Maximum Non-Detect	-2.303

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.201	Lilliefors Test Statistic	0.0858
5% Lilliefors Critical Value	0.0873	5% Lilliefors Critical Value	0.0873
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.832	Mean	-0.5
SD	0.638	SD	0.917
95% DL/2 (t) UCL	0.932	95% H-Stat (DL/2) UCL	1.114
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	0.811	Mean in Log Scale	-0.408
SD	0.669	SD in Log Scale	0.701
95% MLE (t) UCL	0.916	Mean in Original Scale	0.842
95% MLE (Tiku) UCL	0.914	SD in Original Scale	0.627
		95% t UCL	0.94
		95% Percentile Bootstrap UCL	0.94
		95% BCA Bootstrap UCL	0.954
		95% H UCL	0.97

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	2.679	Data appear Lognormal at 5% Significance Level	
Theta Star	0.333		
nu star	551.8		
A-D Test Statistic	2.124	Nonparametric Statistics	
5% A-D Critical Value	0.76	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.76	Mean	0.837
5% K-S Critical Value	0.0894	SD	0.629
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.06
		95% KM (t) UCL	0.937
Assuming Gamma Distribution		95% KM (z) UCL	0.936
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	0.934
Minimum	1.0000E-6	95% KM (bootstrap t) UCL	0.954
Maximum	3.4	95% KM (BCA) UCL	0.941
Mean	0.828	95% KM (Percentile Bootstrap) UCL	0.937
Median	0.65	95% KM (Chebyshev) UCL	1.099
SD	0.642	97.5% KM (Chebyshev) UCL	1.212
k star	0.561	99% KM (Chebyshev) UCL	1.434
Theta star	1.477		
Nu star	124.5	Potential UCLs to Use	
AppChi2	99.77	95% KM (BCA) UCL	0.941
95% Gamma Approximate UCL (Use when n >= 40)	1.034		
95% Adjusted Gamma UCL (Use when n < 40)	1.037		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Arsenic

General Statistics

Number of Valid Observations	111	Number of Distinct Observations	39
Number of Missing Values	1		

Raw Statistics		Log-transformed Statistics	
Minimum	6.1	Minimum of Log Data	1.808
Maximum	51	Maximum of Log Data	3.932
Mean	14.67	Mean of log Data	2.602
Geometric Mean	13.49	SD of log Data	0.395
Median	13		
SD	6.94		
Std. Error of Mean	0.659		
Coefficient of Variation	0.473		
Skewness	2.345		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.171	Lilliefors Test Statistic	0.081
Lilliefors Critical Value	0.0841	Lilliefors Critical Value	0.0841
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	15.77	95% H-UCL	15.6

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	17.04
95% Adjusted-CLT UCL (Chen-1995)	15.91	97.5% Chebyshev (MVUE) UCL	18.11
95% Modified-t UCL (Johnson-1978)	15.79	99% Chebyshev (MVUE) UCL	20.21
Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	5.943	Data appear Lognormal at 5% Significance Level	
Theta Star	2.469		
MLE of Mean	14.67		
MLE of Standard Deviation	6.02		
nu star	1319		
Approximate Chi Square Value (.05)	1236	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0478	95% CLT UCL	15.76
Adjusted Chi Square Value	1235	95% Jackknife UCL	15.77
		95% Standard Bootstrap UCL	15.74
Anderson-Darling Test Statistic	1.55	95% Bootstrap-t UCL	15.96
Anderson-Darling 5% Critical Value	0.754	95% Hall's Bootstrap UCL	15.99
Kolmogorov-Smirnov Test Statistic	0.108	95% Percentile Bootstrap UCL	15.77
Kolmogorov-Smirnov 5% Critical Value	0.0867	95% BCA Bootstrap UCL	15.99
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	17.55
		97.5% Chebyshev(Mean, Sd) UCL	18.79
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	21.23
95% Approximate Gamma UCL (Use when n >= 40)	15.66		
95% Adjusted Gamma UCL (Use when n < 40)	15.68		
Potential UCL to Use		Use 95% Student's-t UCL	15.77
		or 95% Modified-t UCL	15.79
		or 95% H-UCL	15.6

ProUCL computes and outputs H-statistic based UCLs for historical reasons only.

H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.

It is therefore recommended to avoid the use of H-statistic based 95% UCLs.

Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)

and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Lead

General Statistics

Number of Valid Observations	111	Number of Distinct Observations	42
Number of Missing Values	1		
Raw Statistics		**Log-transformed Statistics**	
Minimum	28	Minimum of Log Data	3.332
Maximum	1100	Maximum of Log Data	7.003
Mean	208.5	Mean of log Data	5.138
Geometric Mean	170.3	SD of log Data	0.58
Median	150		
SD	179.7		
Std. Error of Mean	17.06		
Coefficient of Variation	0.862		
Skewness	3.126		

Relevant UCL Statistics

Normal Distribution Test	**Lognormal Distribution Te**

Lilliefors Test Statistic	0.277	Lilliefors Test Statistic	0.132
Lilliefors Critical Value	0.0841	Lilliefors Critical Value	0.0841
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	236.8	95% H-UCL	223.7
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	253.1
95% Adjusted-CLT UCL (Chen-1995)	242	97.5% Chebyshev (MVUE) UCL	275.5
95% Modified-t UCL (Johnson-1978)	237.7	99% Chebyshev (MVUE) UCL	319.7
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.558	Data do not follow a Discernable Distribution (0.05)	
Theta Star	81.52		
MLE of Mean	208.5		
MLE of Standard Deviation	130.4		
nu star	567.9		
Approximate Chi Square Value (.05)	513.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0478	95% CLT UCL	236.6
Adjusted Chi Square Value	513	95% Jackknife UCL	236.8
		95% Standard Bootstrap UCL	235.7
Anderson-Darling Test Statistic	6.848	95% Bootstrap-t UCL	245.1
Anderson-Darling 5% Critical Value	0.761	95% Hall's Bootstrap UCL	242.9
Kolmogorov-Smirnov Test Statistic	0.183	95% Percentile Bootstrap UCL	237.1
Kolmogorov-Smirnov 5% Critical Value	0.0874	95% BCA Bootstrap UCL	243.5
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	282.9
		97.5% Chebyshev(Mean, Sd) UCL	315.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	378.3
95% Approximate Gamma UCL (Use when n >= 40)	230.6		
95% Adjusted Gamma UCL (Use when n < 40)	230.9		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	282.9

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Benzo(a)anthracene

General Statistics

Number of Valid Observations	111	Number of Distinct Observations	56
Number of Missing Values	1		

Raw Statistics		Log-transformed Statistics	
Minimum	0.13	Minimum of Log Data	-2.04
Maximum	5.8	Maximum of Log Data	1.758
Mean	1.185	Mean of log Data	-0.00888
Geometric Mean	0.991	SD of log Data	0.597
Median	0.96		
SD	0.82		
Std. Error of Mean	0.0778		
Coefficient of Variation	0.692		
Skewness	2.529		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.21	Lilliefors Test Statistic	0.0947

Lilliefors Critical Value	0.0841	Lilliefors Critical Value	0.0841
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.314	95% H-UCL	1.319
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.497
95% Adjusted-CLT UCL (Chen-1995)	1.333	97.5% Chebyshev (MVUE) UCL	1.633
95% Modified-t UCL (Johnson-1978)	1.318	99% Chebyshev (MVUE) UCL	1.901
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.877	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.412		
MLE of Mean	1.185		
MLE of Standard Deviation	0.699		
nu star	638.8		
Approximate Chi Square Value (.05)	581.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0478	95% CLT UCL	1.313
Adjusted Chi Square Value	580.4	95% Jackknife UCL	1.314
		95% Standard Bootstrap UCL	1.314
Anderson-Darling Test Statistic	2.36	95% Bootstrap-t UCL	1.34
Anderson-Darling 5% Critical Value	0.759	95% Hall's Bootstrap UCL	1.356
Kolmogorov-Smirnov Test Statistic	0.129	95% Percentile Bootstrap UCL	1.317
Kolmogorov-Smirnov 5% Critical Value	0.0872	95% BCA Bootstrap UCL	1.333
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	1.525
		97.5% Chebyshev(Mean, Sd) UCL	1.671
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.96
95% Approximate Gamma UCL (Use when n >= 40)	1.303		
95% Adjusted Gamma UCL (Use when n < 40)	1.304		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.525

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

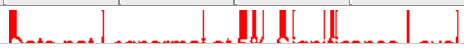
Chrysene

General Statistics

Number of Valid Observations	111	Number of Distinct Observations	60
Number of Missing Values	1		
Raw Statistics		Log-transformed Statistics	
Minimum	0.18	Minimum of Log Data	-1.715
Maximum	6.5	Maximum of Log Data	1.872
Mean	1.315	Mean of log Data	0.0884
Geometric Mean	1.092	SD of log Data	0.591
Median	1		
SD	0.955		
Std. Error of Mean	0.0906		
Coefficient of Variation	0.726		
Skewness	2.517		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.211	Lilliefors Test Statistic	0.117
Lilliefors Critical Value	0.0841	Lilliefors Critical Value	0.0841

Data not Normal at 5% Significance Level			
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	1.466	95% H-UCL	1.447
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.641
95% Adjusted-CLT UCL (Chen-1995)	1.488	97.5% Chebyshev (MVUE) UCL	1.789
95% Modified-t UCL (Johnson-1978)	1.469	99% Chebyshev (MVUE) UCL	2.079
Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	2.776	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.474		
MLE of Mean	1.315		
MLE of Standard Deviation	0.789		
nu star	616.4		
Approximate Chi Square Value (.05)	559.8	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0478	95% CLT UCL	1.464
Adjusted Chi Square Value	559.1	95% Jackknife UCL	1.466
		95% Standard Bootstrap UCL	1.462
Anderson-Darling Test Statistic	3.098	95% Bootstrap-t UCL	1.486
Anderson-Darling 5% Critical Value	0.76	95% Hall's Bootstrap UCL	1.497
Kolmogorov-Smirnov Test Statistic	0.158	95% Percentile Bootstrap UCL	1.473
Kolmogorov-Smirnov 5% Critical Value	0.0873	95% BCA Bootstrap UCL	1.496
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	1.71
		97.5% Chebyshev(Mean, Sd) UCL	1.881
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.217
95% Approximate Gamma UCL (Use when n >= 40)	1.448		
95% Adjusted Gamma UCL (Use when n < 40)	1.45		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.71

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

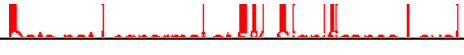
Benzo(b)fluoranthene

General Statistics

Number of Valid Observations	111	Number of Distinct Observations	59
Number of Missing Values	1		

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.25	Minimum of Log Data	-1.386
Maximum	6.7	Maximum of Log Data	1.902
Mean	1.324	Mean of log Data	0.0981
Geometric Mean	1.103	SD of log Data	0.575
Median	0.97		
SD	0.972		
Std. Error of Mean	0.0922		
Coefficient of Variation	0.734		
Skewness	2.605		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Lilliefors Test Statistic	0.218	Lilliefors Test Statistic	0.126
Lilliefors Critical Value	0.0841	Lilliefors Critical Value	0.0841
Data not Normal at 5% Significance Level			

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.477	95% H-UCL	1.442
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.63
95% Adjusted-CLT UCL (Chen-1995)	1.501	97.5% Chebyshev (MVUE) UCL	1.774
95% Modified-t UCL (Johnson-1978)	1.481	99% Chebyshev (MVUE) UCL	2.055

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.819	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.47		
MLE of Mean	1.324		
MLE of Standard Deviation	0.789		
nu star	625.7		
Approximate Chi Square Value (.05)	568.7	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0478	95% CLT UCL	1.476
Adjusted Chi Square Value	568	95% Jackknife UCL	1.477
		95% Standard Bootstrap UCL	1.481
Anderson-Darling Test Statistic	3.423	95% Bootstrap-t UCL	1.503
Anderson-Darling 5% Critical Value	0.759	95% Hall's Bootstrap UCL	1.514
Kolmogorov-Smirnov Test Statistic	0.159	95% Percentile Bootstrap UCL	1.478
Kolmogorov-Smirnov 5% Critical Value	0.0873	95% BCA Bootstrap UCL	1.51
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	1.727
		97.5% Chebyshev(Mean, Sd) UCL	1.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.242
95% Approximate Gamma UCL (Use when n >= 40)	1.457		
95% Adjusted Gamma UCL (Use when n < 40)	1.459		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.727

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Benzo(k)fluoranthene

General Statistics

Number of Valid Observations	111	Number of Distinct Observations	63
Number of Missing Values	1		

Raw Statistics		Log-transformed Statistics	
Minimum	0.17	Minimum of Log Data	-1.772
Maximum	3.6	Maximum of Log Data	1.281
Mean	1.003	Mean of log Data	-0.163
Geometric Mean	0.85	SD of log Data	0.576
Median	0.82		
SD	0.629		
Std. Error of Mean	0.0597		
Coefficient of Variation	0.627		
Skewness	1.653		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.178	Lilliefors Test Statistic	0.0644
Lilliefors Critical Value	0.0841	Lilliefors Critical Value	0.0841
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.102	95% H-UCL	1.112
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.257
95% Adjusted-CLT UCL (Chen-1995)	1.111	97.5% Chebyshev (MVUE) UCL	1.368
95% Modified-t UCL (Johnson-1978)	1.103	99% Chebyshev (MVUE) UCL	1.585

Gamma Distribution Test		Data Distribution
k star (bias corrected)	3.096	Data appear Lognormal at 5% Significance Level
Theta Star	0.324	
MLE of Mean	1.003	
MLE of Standard Deviation	0.57	
nu star	687.3	
Approximate Chi Square Value (.05)	627.5	**Nonparametric Statistics**
Adjusted Level of Significance	0.0478	95% CLT UCL 1.101
Adjusted Chi Square Value	626.7	95% Jackknife UCL 1.102
		95% Standard Bootstrap UCL 1.098
Anderson-Darling Test Statistic	1.675	95% Bootstrap-t UCL 1.118
Anderson-Darling 5% Critical Value	0.758	95% Hall's Bootstrap UCL 1.118
Kolmogorov-Smirnov Test Statistic	0.103	95% Percentile Bootstrap UCL 1.107
Kolmogorov-Smirnov 5% Critical Value	0.0872	95% BCA Bootstrap UCL 1.106
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1.263
		97.5% Chebyshev(Mean, Sd) UCL 1.376
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 1.597
95% Approximate Gamma UCL (Use when n >= 40)	1.099	
95% Adjusted Gamma UCL (Use when n < 40)	1.1	
Potential UCL to Use		Use 95% H-UCL 1.112

ProUCL computes and outputs H-statistic based UCLs for historical reasons only.
H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.
It is therefore recommended to avoid the use of H-statistic based 95% UCLs.
Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Benzo(a)pyrene

General Statistics

Number of Valid Data	111	Number of Detected Data	110
Number of Distinct Detected Data	58	Number of Non-Detect Data	1
Number of Missing Values	1	Percent Non-Detects	0.90%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.16	Minimum Detected	-1.833
Maximum Detected	4.8	Maximum Detected	1.569
Mean of Detected	1.213	Mean of Detected	-0.00131
SD of Detected	0.831	SD of Detected	0.632
Minimum Non-Detect	0.1	Minimum Non-Detect	-2.303
Maximum Non-Detect	0.1	Maximum Non-Detect	-2.303

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.197	Lilliefors Test Statistic	0.0835

5% Lilliefors Critical Value	0.0845	5% Lilliefors Critical Value	0.0845
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.203	Mean	-0.0283
SD	0.834	SD	0.691
95% DL/2 (t) UCL	1.334	95% H-Stat (DL/2) UCL	1.404
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	1.2	Mean in Log Scale	-0.0169
SD	0.836	SD in Log Scale	0.65
95% MLE (t) UCL	1.331	Mean in Original Scale	1.204
95% MLE (Tiku) UCL	1.327	SD in Original Scale	0.833
		95% t UCL	1.335
		95% Percentile Bootstrap UCL	1.35
		95% BCA Bootstrap UCL	1.339
		95% H UCL	1.369
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	2.655	Data appear Lognormal at 5% Significance Level	
Theta Star	0.457		
nu star	584.1		
A-D Test Statistic	1.764	Nonparametric Statistics	
5% A-D Critical Value	0.761	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.761	Mean	1.204
5% K-S Critical Value	0.0876	SD	0.829
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.0791
		95% KM (t) UCL	1.335
Assuming Gamma Distribution		95% KM (z) UCL	1.334
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	1.335
Minimum	1.0000E-6	95% KM (bootstrap t) UCL	1.357
Maximum	4.8	95% KM (BCA) UCL	1.33
Mean	1.202	95% KM (Percentile Bootstrap) UCL	1.341
Median	0.96	95% KM (Chebyshev) UCL	1.548
SD	0.835	97.5% KM (Chebyshev) UCL	1.698
k star	1.719	99% KM (Chebyshev) UCL	1.99
Theta star	0.699		
Nu star	381.6	Potential UCLs to Use	
AppChi2	337.3	95% KM (BCA) UCL	1.33
95% Gamma Approximate UCL (Use when n >= 40)	1.36		
95% Adjusted Gamma UCL (Use when n < 40)	1.362		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Appendix G. Laboratory Chemical Testing Certificates

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

Login Batch No					**219438**			
Chemtest LIMS ID					AI09833	AI09834	AI09835	AI09836
Sample ID					CSLT-15-02	CSLT-15-15	CSLT-15-33	CSLT-15-43
Sample No					NC20	NC20	NC20	NC20
Sampling Date					17/12/2012	17/12/2012	17/12/2012	17/12/2012
Depth					0.20m	0.20m	0.20m	0.20m
Matrix					*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-1	U	0.25	0.21	0.19	0.24
1300	Cyanide (free)	57125	mg l-1	U	<0.050	<0.050	<0.050	<0.050
1220	Sulfate	14808798	mg l-1	U	130	120	120	120
1450	Arsenic	7440382	µg l-1	U	13	9.0	11	12
	Cadmium	7440439	µg l-1	U	0.10	<0.080	<0.080	<0.080
	Copper	7440508	µg l-1	U	11.0	10.0	9.0	7.0
	Mercury	7439976	µg l-1	U	<0.5	<0.5	<0.5	<0.5
	Nickel	7440020	µg l-1	U	<1.0	<1.0	<1.0	<1.0
	Lead	7439921	µg l-1	U	<1.0	<1.0	<1.0	<1.0
	Selenium	7782492	µg l-1	U	12.0	5.0	7.0	5.0
	Zinc	7440666	µg l-1	U	8.0	7.0	8.0	7.0
1490	Chromium (hexavalent)	18540299	µg l-1	U	<20	<20	<20	<20
1675	TPH aliphatic >C5-C6		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C12-C16		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C16-C21		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C21-C35		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C35-C44		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C5-C7		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		µg l-1	N	< 0.1	< 0.1	< 0.1	< 0.1

All tests undertaken between 19/12/2012 and 08/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
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LABORATORY TEST REPORT

Results of analysis of 4 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438			
					AI09833	AI09834	AI09835	AI09836
					CSLT-15-02	CSLT-15-15	CSLT-15-33	CSLT-15-43
					NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m
					LEACHATE	*LEACHATE*	*LEACHATE*	*LEACHATE*
1675	TPH aromatic >C10-C12		µg l-¹	N	1.7	1.1	1.1	3.6
	TPH aromatic >C12-C16		µg l-¹	N	19	11	11	22
	TPH aromatic >C16-C21		µg l-¹	N	60	26	26	39
	TPH aromatic >C21-C35		µg l-¹	N	110	46	46	58
	TPH aromatic >C35-C44		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1
	Total Petroleum Hydrocarbons		µg l-¹	N	190	84	84	120
	Total Aliphatic Hydrocarbons		µg l-¹	N	< 5	< 5	< 5	< 5
	Total Aromatic Hydrocarbons		µg l-¹	N	190	84	84	120
1700	Naphthalene	91203	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Acenaphthylene	208968	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Acenaphthene	83329	µg l-¹	U	2	<0.1	0.5	0.9
	Fluorene	86737	µg l-¹	U	1.4	<0.1	0.6	0.7
	Phenanthrene	85018	µg l-¹	U	5.6	<0.1	2.1	2.7
	Anthracene	120127	µg l-¹	U	1.6	<0.1	1.3	0.7
	Fluoranthene	206440	µg l-¹	U	9.8	<0.1	4.6	4.8
	Pyrene	129000	µg l-¹	U	10	<0.1	4.9	4.6
	Benzo[a]anthracene	56553	µg l-¹	U	4.6	<0.1	2.5	2
	Chrysene	218019	µg l-¹	U	6.2	<0.1	3	2.5
	Benzo[b]fluoranthene	205992	µg l-¹	U	6.5	<0.1	2.3	3
	Benzo[k]fluoranthene	207089	µg l-¹	U	3.1	<0.1	1.9	1.3
	Benzo[a]pyrene	50328	µg l-¹	U	6.8	<0.1	3.7	6
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	0.3	<0.1	<0.1	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	1	<0.1	0.5	<0.1
	Benzo[g,h,i]perylene	191242	µg l-¹	U	0.8	<0.1	1.8	2.2

All tests undertaken between 19/12/2012 and 08/01/2013

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St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 4 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
08 January 2013

					219438			
					AI09833	AI09834	AI09835	AI09836
					CSLT-15-02	CSLT-15-15	CSLT-15-33	CSLT-15-43
					NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m
					LEACHATE	*LEACHATE*	*LEACHATE*	*LEACHATE*
1700	Total (of 16) PAHs		µg l-¹	U	60	<2	30	31
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03	< 0.03	< 0.03

All tests undertaken between 19/12/2012 and 08/01/2013

* Accreditation status

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St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

Login Batch No						**219438**					
Chemtest LIMS ID						AI09813	AI09814	AI09815	AI09816	AI09817	AI09818
Sample ID						CSLT-15-02	CSLT-15-03	CSLT-15-06	CSLT-15-07	CSLT-15-08	CSLT-15-09
Sample No						NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date						17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
Depth						0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
Matrix						*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*							
2300	Cyanide (free)	57125	mg kg-1	M		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-1	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-1	M		9.0	11	21	9.6	13	9.8
	Cadmium	7440439	mg kg-1	M		0.14	0.20	0.19	0.14	0.16	0.19
	Mercury	7439976	mg kg-1	M		0.55	0.36	1.1	0.55	0.49	0.93
	Nickel	7440020	mg kg-1	M		15	15	24	18	45	18
	Lead	7439921	mg kg-1	M		110	190	140	120	210	200
	Selenium	7782492	mg kg-1	M		0.55	0.35	0.69	0.49	0.68	0.84
2675	TPH aliphatic >C5-C6		mg kg-1	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-1	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-1	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-1	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-1	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-1	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-1	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-1	N		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-1	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-1	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-1	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-1	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-1	M		< 1	1.2	< 1	2.5	< 1	< 1
	TPH aromatic >C16-C21		mg kg-1	M		< 1	4.2	< 1	6.0	< 1	< 1
	TPH aromatic >C21-C35		mg kg-1	M		< 1	11	< 1	8.6	< 1	< 1

All tests undertaken between 19/12/2012 and 08/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

Login Batch No					**219438**						
Chemtest LIMS ID					AI09819	AI09820	AI09821	AI09822	AI09823	AI09824
Sample ID					CSLT-15-10	CSLT-15-12	CSLT-15-13	CSLT-15-15	CSLT-15-32	CSLT-15-33
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
Depth					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg⁻¹	M	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg⁻¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg⁻¹	M	8.8	9.5	7.7	13	8.2	9.8
	Cadmium	7440439	mg kg⁻¹	M	0.13	0.21	0.12	0.19	0.18	0.15
	Mercury	7439976	mg kg⁻¹	M	0.45	0.62	0.27	0.58	0.43	0.39
	Nickel	7440020	mg kg⁻¹	M	15	18	16	21	15	13
	Lead	7439921	mg kg⁻¹	M	120	830	94	240	190	95
	Selenium	7782492	mg kg⁻¹	M	0.55	0.55	0.67	0.62	0.44	0.47
2675	TPH aliphatic >C5-C6		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg⁻¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg⁻¹	M	< 1	1.3	< 1	1.8	1.7	1.8
	TPH aromatic >C16-C21		mg kg⁻¹	M	< 1	3.8	< 1	4.6	21	5.9
	TPH aromatic >C21-C35		mg kg⁻¹	M	< 1	5.7	< 1	9.5	24	13

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

Login Batch No					**219438**						
Chemtest LIMS ID					AI09825	AI09826	AI09827	AI09828	AI09829	AI09830
Sample ID					CSLT-15-36	CSLT-15-37	CSLT-15-38	CSLT-15-39	CSLT-15-40	CSLT-15-42
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
Depth					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg⁻¹	M	<0.50	<0.50	<0.50	0.70	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg⁻¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg⁻¹	M	8.4	19	15	15	14	10
	Cadmium	7440439	mg kg⁻¹	M	0.12	0.12	0.11	0.11	0.12	0.11
	Mercury	7439976	mg kg⁻¹	M	0.50	0.42	0.94	0.36	0.43	0.24
	Nickel	7440020	mg kg⁻¹	M	17	20	21	16	18	9.3
	Lead	7439921	mg kg⁻¹	M	130	110	120	120	110	91
	Selenium	7782492	mg kg⁻¹	M	0.57	0.47	0.91	0.56	0.62	0.40
2675	TPH aliphatic >C5-C6		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg⁻¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg⁻¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	3.9
	TPH aromatic >C21-C35		mg kg⁻¹	M	< 1	< 1	< 1	< 1	< 1	9.5

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

Report Date
08 January 2013

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QEOP-CS - Queen Elizabeth Olympic Park

						219438	
Login Batch No							
Chemtest LIMS ID						AI09831	AI09832
Sample ID						CSLT-15-43	CSLT-15-45
Sample No						NC20	NC20
Sampling Date						17/12/2012	17/12/2012
Depth						0.20m	0.20m
Matrix						*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2300	Cyanide (free)	57125	mg kg-1	M		<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-1	N		<0.5	<0.5
2450	Arsenic	7440382	mg kg-1	M		15	15
	Cadmium	7440439	mg kg-1	M		0.15	0.11
	Mercury	7439976	mg kg-1	M		0.48	0.73
	Nickel	7440020	mg kg-1	M		18	19
	Lead	7439921	mg kg-1	M		560	240
	Selenium	7782492	mg kg-1	M		0.64	0.60
2675	TPH aliphatic >C5-C6		mg kg-1	N		< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-1	N		< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-1	N		< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-1	M		< 1	< 1
	TPH aliphatic >C12-C16		mg kg-1	M		< 1	< 1
	TPH aliphatic >C16-C21		mg kg-1	M		< 1	< 1
	TPH aliphatic >C21-C35		mg kg-1	M		< 1	< 1
	TPH aliphatic >C35-C44		mg kg-1	N		< 1	< 1
	TPH aromatic >C5-C7		mg kg-1	N		< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-1	N		< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-1	N		< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-1	M		< 1	< 1
	TPH aromatic >C12-C16		mg kg-1	M		1.3	2.9
	TPH aromatic >C16-C21		mg kg-1	M		4.1	21
	TPH aromatic >C21-C35		mg kg-1	M		10	21

* Accreditation status

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Camberley
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LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438					
					AI09813	AI09814	AI09815	AI09816	AI09817	AI09818
					CSLT-15-02	CSLT-15-03	CSLT-15-06	CSLT-15-07	CSLT-15-08	CSLT-15-09
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	TPH aromatic >C35-C44		mg kg-1	N	< 1	< 1	< 1	< 1	< 1	< 1
	Total Petroleum Hydrocarbons		mg kg-1	N	< 10	16	< 10	17	< 10	< 10
2700	Naphthalene	91203	mg kg-1	M	0.15	< 0.1	0.18	0.23	0.26	0.5
	Acenaphthylene	208968	mg kg-1	M	0.32	0.23	0.31	0.26	0.3	0.73
	Acenaphthene	83329	mg kg-1	M	0.5	< 0.1	0.38	0.45	< 0.1	0.5
	Fluorene	86737	mg kg-1	M	0.24	0.24	0.11	0.14	0.18	0.62
	Phenanthrene	85018	mg kg-1	M	1.4	1.5	1.2	1.1	0.92	3.4
	Anthracene	120127	mg kg-1	M	0.68	0.82	0.64	0.49	0.61	1.3
	Fluoranthene	206440	mg kg-1	M	2.2	3.5	2.3	1.7	1.7	3
	Pyrene	129000	mg kg-1	M	2.5	3.1	2.1	1.6	1.6	2.4
	Benzo[a]anthracene	56553	mg kg-1	M	1.3	1.5	1.3	0.91	0.81	1.4
	Chrysene	218019	mg kg-1	M	1.5	1.8	1.4	0.99	0.98	1.6
	Benzo[b]fluoranthene	205992	mg kg-1	M	1.6	1.4	1.5	1	0.87	0.87
	Benzo[k]fluoranthene	207089	mg kg-1	M	1.6	1.9	1.5	1	0.57	1.3
	Benzo[a]pyrene	50328	mg kg-1	M	1.8	1.9	1.2	1	0.69	1
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	< 0.1	0.13	< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	< 0.1	1	0.73	0.3	0.34	0.56
	Benzo[g,h,i]perylene	191242	mg kg-1	M	0.75	0.93	0.33	0.23	0.34	0.5
	Total (of 16) PAHs		mg kg-1	M	17	20	15	11	10	20
2760	Methyl tert-butyl ether	1634044	µg kg-1	N	< 1	< 1	< 1	< 1	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20

All tests undertaken between 19/12/2012 and 08/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
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Camberley
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LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438					
					AI09819	AI09820	AI09821	AI09822	AI09823	AI09824
					CSLT-15-10	CSLT-15-12	CSLT-15-13	CSLT-15-15	CSLT-15-32	CSLT-15-33
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	TPH aromatic >C35-C44		mg kg-1	N	< 1	< 1	< 1	< 1	< 1	< 1
	Total Petroleum Hydrocarbons		mg kg-1	N	< 10	11	< 10	16	46	21
2700	Naphthalene	91203	mg kg-1	M	0.11	0.18	0.32	0.35	0.28	0.35
	Acenaphthylene	208968	mg kg-1	M	0.19	0.23	0.31	0.69	0.23	0.3
	Acenaphthene	83329	mg kg-1	M	0.28	0.25	0.24	0.42	0.77	0.75
	Fluorene	86737	mg kg-1	M	0.18	0.54	0.27	0.56	0.85	0.49
	Phenanthrene	85018	mg kg-1	M	1.4	2.2	0.71	1.1	6.3	2.5
	Anthracene	120127	mg kg-1	M	0.5	1.3	0.36	0.62	2.2	0.99
	Fluoranthene	206440	mg kg-1	M	2	1.7	0.77	1.7	12	4.2
	Pyrene	129000	mg kg-1	M	1.7	1.6	0.61	1.5	8.4	4.1
	Benzo[a]anthracene	56553	mg kg-1	M	1.1	0.66	0.53	0.87	5.8	2.2
	Chrysene	218019	mg kg-1	M	1.2	0.83	0.58	0.89	6.5	2.7
	Benzo[b]fluoranthene	205992	mg kg-1	M	1.2	0.78	0.35	0.78	6.7	2.7
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.84	0.44	0.44	1	3.6	1.6
	Benzo[a]pyrene	50328	mg kg-1	M	0.16	< 0.1	0.44	1	4.8	1.7
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	0.2	0.17	< 0.1	0.38	1.2	0.58
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	0.55	0.58	0.16	0.49	3.3	1.8
	Benzo[g,h,i]perylene	191242	mg kg-1	M	0.68	0.53	0.36	0.81	3.3	1.6
	Total (of 16) PAHs		mg kg-1	M	12	12	6.5	13	66	29
2760	Methyl tert-butyl ether	1634044	µg kg-1	N	< 1	< 1	< 1	< 1	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20

BAM Nuttall Ltd
St James House
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GU15 3XW

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

Report Date
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QEOP-CS - Queen Elizabeth Olympic Park

					219438					
					AI09825	AI09826	AI09827	AI09828	AI09829	AI09830
					CSLT-15-36	CSLT-15-37	CSLT-15-38	CSLT-15-39	CSLT-15-40	CSLT-15-42
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	TPH aromatic >C35-C44		mg kg-1	N	< 1	< 1	< 1	< 1	< 1	< 1
	Total Petroleum Hydrocarbons		mg kg-1	N	< 10	< 10	< 10	< 10	< 10	14
2700	Naphthalene	91203	mg kg-1	M	< 0.1	0.37	0.34	< 0.1	0.23	< 0.1
	Acenaphthylene	208968	mg kg-1	M	0.26	0.21	0.22	< 0.1	0.13	< 0.1
	Acenaphthene	83329	mg kg-1	M	0.33	0.57	0.43	< 0.1	0.52	0.15
	Fluorene	86737	mg kg-1	M	0.23	0.28	0.54	0.15	0.17	0.16
	Phenanthrene	85018	mg kg-1	M	0.98	2.1	0.87	1.3	2	1.1
	Anthracene	120127	mg kg-1	M	0.58	0.77	0.44	0.44	0.51	0.37
	Fluoranthene	206440	mg kg-1	M	1.1	2.5	1.2	1.8	2.2	1.7
	Pyrene	129000	mg kg-1	M	1	2.3	1.2	1.8	1.8	1.6
	Benzo[a]anthracene	56553	mg kg-1	M	0.66	1.5	0.59	0.87	0.98	0.7
	Chrysene	218019	mg kg-1	M	0.74	1.7	0.81	1	1	0.83
	Benzo[b]fluoranthene	205992	mg kg-1	M	0.72	1.9	0.75	0.9	0.92	0.83
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.56	2.2	0.7	0.76	0.58	0.61
	Benzo[a]pyrene	50328	mg kg-1	M	0.17	0.17	0.66	0.52	0.8	0.51
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	< 0.1	0.17	< 0.1	0.17	0.11	0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	< 0.1	0.63	< 0.1	0.71	0.56	0.59
	Benzo[g,h,i]perylene	191242	mg kg-1	M	< 0.1	0.48	< 0.1	0.67	0.46	0.51
	Total (of 16) PAHs		mg kg-1	M	7.3	18	8.8	11	13	9.8
2760	Methyl tert-butyl ether	1634044	µg kg-1	N	< 1	< 1	< 1	< 1	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
08 January 2013

					219438	
					AI09831	AI09832
					CSLT-15-43	CSLT-15-45
					NC20	NC20
					17/12/2012	17/12/2012
					0.20m	0.20m
					SOIL	*SOIL*
2675	TPH aromatic >C35-C44		mg kg-1	N	< 1	< 1
	Total Petroleum Hydrocarbons		mg kg-1	N	16	45
2700	Naphthalene	91203	mg kg-1	M	< 0.1	0.18
	Acenaphthylene	208968	mg kg-1	M	< 0.1	0.13
	Acenaphthene	83329	mg kg-1	M	0.23	0.29
	Fluorene	86737	mg kg-1	M	0.13	0.26
	Phenanthrene	85018	mg kg-1	M	1.1	1.8
	Anthracene	120127	mg kg-1	M	0.9	0.55
	Fluoranthene	206440	mg kg-1	M	1.6	3.3
	Pyrene	129000	mg kg-1	M	1.6	3.5
	Benzo[a]anthracene	56553	mg kg-1	M	0.73	1.7
	Chrysene	218019	mg kg-1	M	0.86	1.8
	Benzo[b]fluoranthene	205992	mg kg-1	M	0.83	1.8
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.64	1.3
	Benzo[a]pyrene	50328	mg kg-1	M	0.73	1.9
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	0.11	0.49
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	0.61	1.4
	Benzo[g,h,i]perylene	191242	mg kg-1	M	0.7	1.5
	Total (of 16) PAHs		mg kg-1	M	11	22
2760	Methyl tert-butyl ether	1634044	µg kg-1	N	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438					
					AI09813	AI09814	AI09815	AI09816	AI09817	AI09818
					CSLT-15-02	CSLT-15-03	CSLT-15-06	CSLT-15-07	CSLT-15-08	CSLT-15-09
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

All tests undertaken between 19/12/2012 and 08/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438					
					AI09819	AI09820	AI09821	AI09822	AI09823	AI09824
					CSLT-15-10	CSLT-15-12	CSLT-15-13	CSLT-15-15	CSLT-15-32	CSLT-15-33
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Chloroethane	75003	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-1	N	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-1	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-1	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-1	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-1	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-1	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438					
					AI09825	AI09826	AI09827	AI09828	AI09829	AI09830
					CSLT-15-36	CSLT-15-37	CSLT-15-38	CSLT-15-39	CSLT-15-40	CSLT-15-42
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Chloroethane	75003	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-1	N	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-1	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-1	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-1	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-1	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-1	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

* Accreditation status

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BAM Nuttall Ltd
St James House
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Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438	
					AI09831	AI09832
					CSLT-15-43	CSLT-15-45
					NC20	NC20
					17/12/2012	17/12/2012
					0.20m	0.20m
					SOIL	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0

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LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
08 January 2013

					219438					
					AI09813	AI09814	AI09815	AI09816	AI09817	AI09818
					CSLT-15-02	CSLT-15-03	CSLT-15-06	CSLT-15-07	CSLT-15-08	CSLT-15-09
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethy benzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tribromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethy benzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Butylbenzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethy benzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 19/12/2012 and 08/01/2013

* Accreditation status

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BAM Nuttall Ltd
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Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438					
					AI09819	AI09820	AI09821	AI09822	AI09823	AI09824
					CSLT-15-10	CSLT-15-12	CSLT-15-13	CSLT-15-15	CSLT-15-32	CSLT-15-33
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethy benzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tribromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethy benzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Butylbenzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethy benzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438					
					AI09825	AI09826	AI09827	AI09828	AI09829	AI09830
					CSLT-15-36	CSLT-15-37	CSLT-15-38	CSLT-15-39	CSLT-15-40	CSLT-15-42
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethy benzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tribromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethy benzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Butylbenzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethy benzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438	
					AI09831	AI09832
					CSLT-15-43	CSLT-15-45
					NC20	NC20
					17/12/2012	17/12/2012
					0.20m	0.20m
					SOIL	*SOIL*
2760	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0
	Ethy benzene	100414	µg kg-¹	M	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0
	Tribromomethane	75252	µg kg-¹	U	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0
	1,2,4-Trimethy benzene	95636	µg kg-¹	U	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0
	tert-Butylbenzene	98066	µg kg-¹	U	< 1.0	< 1.0
	1,3,5-Trimethy benzene	108678	µg kg-¹	U	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

					219438					
					AI09813	AI09814	AI09815	AI09816	AI09817	AI09818
					CSLT-15-02	CSLT-15-03	CSLT-15-06	CSLT-15-07	CSLT-15-08	CSLT-15-09
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

All tests undertaken between 19/12/2012 and 08/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

Report Date
08 January 2013

FAO [redacted]

QEOP-CS - Queen Elizabeth Olympic Park

					219438					
					AI09819	AI09820	AI09821	AI09822	AI09823	AI09824
					CSLT-15-10	CSLT-15-12	CSLT-15-13	CSLT-15-15	CSLT-15-32	CSLT-15-33
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

Report Date
08 January 2013

FAO [redacted]

QEOP-CS - Queen Elizabeth Olympic Park

					219438					
					AI09825	AI09826	AI09827	AI09828	AI09829	AI09830
					CSLT-15-36	CSLT-15-37	CSLT-15-38	CSLT-15-39	CSLT-15-40	CSLT-15-42
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

LABORATORY TEST REPORT

Results of analysis of 24 samples
received 19 December 2012

Report Date
08 January 2013

FAO [redacted]

QEOP-CS - Queen Elizabeth Olympic Park

					219438	
					AI09831	AI09832
					CSLT-15-43	CSLT-15-45
					NC20	NC20
					17/12/2012	17/12/2012
					0.20m	0.20m
					SOIL	*SOIL*
2760	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
12 February 2013

Dear [redacted]

Test Report Number **219438a Amended Test Report**
Your Project Reference **QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 8 February 2013.

Please find 1, 1, 2, 2 Tetrachloroethane results now reported. Disregard all previous reports.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely
[redacted]

2183

Notes to accompany report:
- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*
- *All results are expressed on a dry weight basis*
- *The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, phenols*
- *For all other tests the samples were dried at < 37°C prior to analysis*
- *Uncertainties of measurement for the determinands tested are available upon request*
- *None of the test results included in this report have been recovery corrected*

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
08 January 2013

Dear [redacted]

Test Report Number **219438**
Your Project Reference **QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 19 December 2012.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

[redacted]

2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
- *Samples associated with asbestos are retained for six months*
- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
08 January 2013

Dear [redacted]

Test Report Number **219438**
Your Project Reference **QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 19 December 2012.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely
[redacted]

2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*
- *All results are expressed on a dry weight basis*
- *The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, phenols*
- *For all other tests the samples were dried at < 37°C prior to analysis*
- *Uncertainties of measurement for the determinands tested are available upon request*
- *None of the test results included in this report have been recovery corrected*

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

Login Batch No						**220498**	
Chemtest LIMS ID						AI15934	AI15935
Sample ID						CSLT-15-04	CSLT-15-66
Sample No						NC20	NC20
Sampling Date						15/1/2013	15/1/2013
Depth						0.1m	0.3m
Matrix						*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U		0.46	0.08
1300	Cyanide (free)	57125	mg l-¹	U		< 0.05	< 0.05
1220	Sulfate	14808798	mg l-¹	U		78	64
1450	Arsenic	7440382	µg l-¹	U		11	5.1
	Cadmium	7440439	µg l-¹	U		<0.080	<0.080
	Copper	7440508	µg l-¹	U		16	8.1
	Mercury	7439976	µg l-¹	U		0.85	<0.50
	Nickel	7440020	µg l-¹	U		3.0	7.5
	Lead	7439921	µg l-¹	U		<1.0	1.1
	Selenium	7782492	µg l-¹	U		3.6	2.0
	Zinc	7440666	µg l-¹	U		22	15
1490	Chromium (hexavalent)	18540299	µg l-¹	U		<20	<20
1700	Naphthalene	91203	µg l-¹	U		<0.1	<0.1
	Acenaphthylene	208968	µg l-¹	U		<0.1	<0.1
	Acenaphthene	83329	µg l-¹	U		<0.1	<0.1
	Fluorene	86737	µg l-¹	U		<0.1	<0.1
	Phenanthrene	85018	µg l-¹	U		1.3	0.7
	Anthracene	120127	µg l-¹	U		0.8	<0.1
	Fluoranthene	206440	µg l-¹	U		16	2
	Pyrene	129000	µg l-¹	U		11	2.5
	Benzo[a]anthracene	56553	µg l-¹	U		1.3	1.1
	Chrysene	218019	µg l-¹	U		1.7	1.3
	Benzo[b]fluoranthene	205992	µg l-¹	U		<0.1	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	U		<0.1	<0.1

All tests undertaken between 17/01/2013 and 24/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

					220498	
					AI15934	AI15935
					CSLT-15-04	CSLT-15-66
					NC20	NC20
					15/1/2013	15/1/2013
					0.1m	0.3m
					LEACHATE	*LEACHATE*
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1	<0.1
	Total (of 16) PAHs		µg l-¹	U	32	7.6
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03

All tests undertaken between 17/01/2013 and 24/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

Login Batch No					220498					
Chemtest LIMS ID					AI15921	AI15922	AI15923	AI15924	AI15925	AI15926
Sample ID					CSLT-15-01	CSLT-15-05	CSLT-15-04	CSLT-15-35	CSLT-15-31	CSLT-15-34
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
Depth					0.1m	0.1m	0.1m	0.2m	0.1m	0.1m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	13	12	12	11	150	10
	Cadmium	7440439	mg kg-¹	M	0.11	<0.10	<0.10	0.17	0.11	0.33
	Mercury	7439976	mg kg-¹	M	0.60	0.49	0.64	0.60	0.47	0.31
	Nickel	7440020	mg kg-¹	M	22	19	22	19	18	14
	Lead	7439921	mg kg-¹	M	190	190	210	150	130	140
	Selenium	7782492	mg kg-¹	M	0.67	0.70	0.54	0.78	0.40	0.41
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	1.4	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	43	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	< 1	4.1	18	< 1	< 1
	TPH aromatic >C21-C35		mg kg-¹	M	< 1	< 1	6.6	13	< 1	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1

All tests undertaken between 17/01/2013 and 24/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

Login Batch No					**220498**						
Chemtest LIMS ID					AI15927	AI15928	AI15929	AI15930	AI15931	AI15932
Sample ID					CSLT-15-63	CSLT-15-64	CSLT-15-61	CSLT-15-65	CSLT-15-67	CSLT-15-66
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
Depth					0.1m	0.2m	0.2m	0.3m	0.2m	0.3m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	9.6	15	9.5	7.9	11	6.1
	Cadmium	7440439	mg kg-¹	M	0.13	<0.10	0.12	0.22	0.13	0.12
	Mercury	7439976	mg kg-¹	M	0.30	0.39	0.45	<0.10	0.44	0.12
	Nickel	7440020	mg kg-¹	M	18	19	18	13	21	11
	Lead	7439921	mg kg-¹	M	130	120	120	28	110	39
	Selenium	7782492	mg kg-¹	M	0.59	0.79	0.71	<0.20	0.68	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

Login Batch No					**220498**
Chemtest LIMS ID					AI15933
Sample ID					CSLT-15-68
Sample No					NC20
Sampling Date					15/1/2013
Depth					0.2m
Matrix					*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5
2450	Arsenic	7440382	mg kg-¹	M	8.1
	Cadmium	7440439	mg kg-¹	M	<0.10
	Mercury	7439976	mg kg-¹	M	0.49
	Nickel	7440020	mg kg-¹	M	15
	Lead	7439921	mg kg-¹	M	99
	Selenium	7782492	mg kg-¹	M	0.33
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1
	TPH aromatic >C21-C35		mg kg-¹	M	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1

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Report Date
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					220498					
					AI15921	AI15922	AI15923	AI15924	AI15925	AI15926
					CSLT-15-01	CSLT-15-05	CSLT-15-04	CSLT-15-35	CSLT-15-31	CSLT-15-34
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.1m	0.1m	0.2m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10	< 10	11	76	< 10	< 10
2700	Naphthalene	91203	mg kg-¹	M	0.29	1.2	< 0.1	0.39	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-¹	M	0.72	2	0.34	0.32	< 0.1	< 0.1
	Acenaphthene	83329	mg kg-¹	M	0.61	4.7	0.91	0.74	< 0.1	< 0.1
	Fluorene	86737	mg kg-¹	M	0.23	7.3	0.37	0.12	0.23	0.22
	Phenanthrene	85018	mg kg-¹	M	1.6	53	2.7	0.74	1.7	1.2
	Anthracene	120127	mg kg-¹	M	0.6	12	0.9	0.4	0.71	0.59
	Fluoranthene	206440	mg kg-¹	M	2.2	56	3.4	1.1	3.1	1.7
	Pyrene	129000	mg kg-¹	M	2.3	42	3	1.3	2.8	1.6
	Benzo[a]anthracene	56553	mg kg-¹	M	0.97	21	1.5	0.55	1.5	0.88
	Chrysene	218019	mg kg-¹	M	1.1	21	1.6	0.53	1.6	0.92
	Benzo[b]fluoranthene	205992	mg kg-¹	M	1.1	16	1.4	0.59	1.1	0.6
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.67	12	0.86	0.52	1.2	0.62
	Benzo[a]pyrene	50328	mg kg-¹	M	0.86	16	1.3	0.47	1.4	0.85
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.1	1.9	< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.49	9.3	0.65	0.27	1.1	0.48
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.43	9.7	0.93	0.23	1.3	0.61
	Total (of 16) PAHs		mg kg-¹	M	14	290	20	8.3	18	10
2760	Methyl tert-butyl ether		µg kg-¹		< 1	< 1	< 1	< 1	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 17/01/2013 and 24/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

					220498					
					AI15927	AI15928	AI15929	AI15930	AI15931	AI15932
					CSLT-15-63	CSLT-15-64	CSLT-15-61	CSLT-15-65	CSLT-15-67	CSLT-15-66
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.2m	0.2m	0.3m	0.2m	0.3m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-1	N	< 10	< 10	< 10	< 10	< 10	< 10
2700	Naphthalene	91203	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthene	83329	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluorene	86737	mg kg-1	M	0.16	0.21	0.3	< 0.1	0.18	0.14
	Phenanthrene	85018	mg kg-1	M	1.1	1.2	1.3	0.41	0.75	0.64
	Anthracene	120127	mg kg-1	M	0.49	0.64	0.61	0.26	0.6	0.3
	Fluoranthene	206440	mg kg-1	M	1.6	2	1.9	0.39	1.2	0.88
	Pyrene	129000	mg kg-1	M	1.5	1.9	1.9	0.39	1.3	0.91
	Benzo[a]anthracene	56553	mg kg-1	M	0.71	0.97	0.99	0.13	0.59	0.41
	Chrysene	218019	mg kg-1	M	0.74	1	1	0.18	0.6	0.44
	Benzo[b]fluoranthene	205992	mg kg-1	M	0.83	0.94	0.87	0.25	0.6	0.48
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.57	0.66	0.82	0.2	0.49	0.33
	Benzo[a]pyrene	50328	mg kg-1	M	0.78	0.92	1	0.3	0.61	0.45
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	0.1	< 0.1	0.14	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	0.61	0.65	0.79	< 0.1	0.47	0.27
	Benzo[g,h,]perylene	191242	mg kg-1	M	0.75	0.79	0.75	< 0.1	0.5	0.29
	Total (of 16) PAHs		mg kg-1	M	9.9	12	12	2.5	7.9	5.5
2760	Methyl tert-butyl ether		µg kg-1		< 1	< 1	< 1	< 1	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

					220498
					AI15933
					CSLT-15-68
					NC20
					15/1/2013
					0.2m
					SOIL
2675	Total Petroleum Hydrocarbons		mg kg-1	N	< 10
2700	Naphthalene	91203	mg kg-1	M	1.3
	Acenaphthylene	208968	mg kg-1	M	1.2
	Acenaphthene	83329	mg kg-1	M	2.3
	Fluorene	86737	mg kg-1	M	0.72
	Phenanthrene	85018	mg kg-1	M	6.2
	Anthracene	120127	mg kg-1	M	2.1
	Fluoranthene	206440	mg kg-1	M	7
	Pyrene	129000	mg kg-1	M	5.9
	Benzo[a]anthracene	56553	mg kg-1	M	3.1
	Chrysene	218019	mg kg-1	M	3.3
	Benzo[b]fluoranthene	205992	mg kg-1	M	2.6
	Benzo[k]fluoranthene	207089	mg kg-1	M	2.3
	Benzo[a]pyrene	50328	mg kg-1	M	3
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	0.52
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	2.4
	Benzo[g,h,]perylene	191242	mg kg-1	M	2.2
	Total (of 16) PAHs		mg kg-1	M	46
2760	Methyl tert-butyl ether		µg kg-1		< 1
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0

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LABORATORY TEST REPORT

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					220498					
					AI15921	AI15922	AI15923	AI15924	AI15925	AI15926
					CSLT-15-01	CSLT-15-05	CSLT-15-04	CSLT-15-35	CSLT-15-31	CSLT-15-34
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.1m	0.1m	0.2m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 17/01/2013 and 24/01/2013

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BAM Nuttall Ltd
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LABORATORY TEST REPORT

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					220498					
					AI15927	AI15928	AI15929	AI15930	AI15931	AI15932
					CSLT-15-63	CSLT-15-64	CSLT-15-61	CSLT-15-65	CSLT-15-67	CSLT-15-66
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.2m	0.2m	0.3m	0.2m	0.3m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

					220498
					AI15933
					CSLT-15-68
					NC20
					15/1/2013
					0.2m
					SOIL
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10
	Toluene	108883	µg kg-¹	M	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

					220498					
					AI15921	AI15922	AI15923	AI15924	AI15925	AI15926
					CSLT-15-01	CSLT-15-05	CSLT-15-04	CSLT-15-35	CSLT-15-31	CSLT-15-34
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.1m	0.1m	0.2m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

All tests undertaken between 17/01/2013 and 24/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

					220498					
					AI15927	AI15928	AI15929	AI15930	AI15931	AI15932
					CSLT-15-63	CSLT-15-64	CSLT-15-61	CSLT-15-65	CSLT-15-67	CSLT-15-66
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.2m	0.2m	0.3m	0.2m	0.3m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
24 January 2013

					220498
					AI15933
					CSLT-15-68
					NC20
					15/1/2013
					0.2m
					SOIL
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
12 February 2013

Dear [redacted]

Test Report Number **220498a Amended Test Report**
Your Project Reference **QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 17 January 2013.

Please find 1, 1, 2, 2 Tetrachloroethane results now reported. Disregard all previous reports.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely
[redacted]

2183

Notes to accompany report:
- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*
- *All results are expressed on a dry weight basis*
- *The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, phenols*
- *For all other tests the samples were dried at < 37°C prior to analysis*
- *Uncertainties of measurement for the determinands tested are available upon request*
- *None of the test results included in this report have been recovery corrected*

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
24 January 2013

Dear [redacted]

Test Report Number **220498**
Your Project Reference **QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 17 January 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

[redacted]

2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
- *Samples associated with asbestos are retained for six months*
- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
24 January 2013

Dear [redacted]

Test Report Number **220498**
Your Project Reference **QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 17 January 2013.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely
[redacted]

2183

Notes to accompany report:
- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
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- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*
- *All results are expressed on a dry weight basis*
- *The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, phenols*
- *For all other tests the samples were dried at < 37°C prior to analysis*
- *Uncertainties of measurement for the determinands tested are available upon request*
- *None of the test results included in this report have been recovery corrected*

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
29 January 2013

Login Batch No					**220709**
Chemtest LIMS ID					AI17239
Sample ID					CSLT-15-73
Sample No					PDZ15
Sampling Date					17/1/2013
Depth					0.2m
Matrix					*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U	0.27
1300	Cyanide (free)	57125	mg l-¹	U	< 0.05
1220	Sulfate	14808798	mg l-¹	U	83
1450	Arsenic	7440382	µg l-¹	U	6.9
	Cadmium	7440439	µg l-¹	U	<0.080
	Copper	7440508	µg l-¹	U	14
	Mercury	7439976	µg l-¹	U	<0.50
	Nickel	7440020	µg l-¹	U	1.1
	Lead	7439921	µg l-¹	U	<1.0
	Selenium	7782492	µg l-¹	U	2.5
	Zinc	7440666	µg l-¹	U	2.7
1490	Chromium (hexavalent)	18540299	µg l-¹	U	<20
1700	Naphthalene	91203	µg l-¹	U	0.1
	Acenaphthylene	208968	µg l-¹	U	0.1
	Acenaphthene	83329	µg l-¹	U	0.7
	Fluorene	86737	µg l-¹	U	0.6
	Phenanthrene	85018	µg l-¹	U	3.8
	Anthracene	120127	µg l-¹	U	1.2
	Fluoranthene	206440	µg l-¹	U	6.8
	Pyrene	129000	µg l-¹	U	6.6
	Benzo[a]anthracene	56553	µg l-¹	U	3.6
	Chrysene	218019	µg l-¹	U	4.2
	Benzo[b]fluoranthene	205992	µg l-¹	U	4
	Benzo[k]fluoranthene	207089	µg l-¹	U	2

All tests undertaken between 21/01/2013 and 29/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
29 January 2013

					220709
					AI17239
					CSLT-15-73
					PDZ15
					17/1/2013
					0.2m
					LEACHATE
1700	Benzo[a]pyrene	50328	µg l-¹	U	4
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	0.2
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	2.5
	Benzo[g,h,]perylene	191242	µg l-¹	U	2.8
	Total (of 16) PAHs		µg l-¹	U	43
1920	Phenols (total)		mg l-¹	N	< 0.03

All tests undertaken between 21/01/2013 and 29/01/2013

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
29 January 2013

Login Batch No						**220709**		
Chemtest LIMS ID						AI17236	AI17237	AI17238
Sample ID						CSLT-15-69	CSLT-15-72	CSLT-15-73
Sample No						PDZ15	PDZ15	PDZ15
Sampling Date						17/1/2013	17/1/2013	17/1/2013
Depth						0.2m	0.2m	0.2m
Matrix						*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
2300	Cyanide (free)	57125	mg kg-¹	M		< 0.5	< 0.5	< 0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N		<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M		8.5	12	10
	Cadmium	7440439	mg kg-¹	M		0.11	<0.10	<0.10
	Mercury	7439976	mg kg-¹	M		0.23	0.56	0.56
	Nickel	7440020	mg kg-¹	M		16	17	16
	Lead	7439921	mg kg-¹	M		93	170	130
	Selenium	7782492	mg kg-¹	M		<0.20	0.51	0.41
2675	TPH aliphatic >C5-C6		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M		< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M		< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M		< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M		< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N		< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M		< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M		< 1	1.7	< 1
	TPH aromatic >C16-C21		mg kg-¹	M		< 1	3.7	< 1
	TPH aromatic >C21-C35		mg kg-¹	M		< 1	7.5	< 1
	TPH aromatic >C35-C44		mg kg-¹	N		< 1	< 1	< 1

All tests undertaken between 21/01/2013 and 29/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
29 January 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-1	N	< 10	13	< 10
2700	Naphthalene	91203	mg kg-1	M	1.5	1.9	2.2
	Acenaphthylene	208968	mg kg-1	M	< 0.1	0.36	0.33
	Acenaphthene	83329	mg kg-1	M	0.4	0.59	0.66
	Fluorene	86737	mg kg-1	M	0.33	0.62	0.32
	Phenanthrene	85018	mg kg-1	M	0.86	2.6	2
	Anthracene	120127	mg kg-1	M	0.46	0.93	0.66
	Fluoranthene	206440	mg kg-1	M	1.6	4.1	2.7
	Pyrene	129000	mg kg-1	M	1.4	3.4	2.6
	Benzo[a]anthracene	56553	mg kg-1	M	0.88	1.9	1.4
	Chrysene	218019	mg kg-1	M	0.78	1.9	1.7
	Benzo[b]fluoranthene	205992	mg kg-1	M	0.78	2.1	1.8
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.75	1.6	1.1
	Benzo[a]pyrene	50328	mg kg-1	M	0.77	1.9	1.6
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	0.2	0.63	0.53
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	0.71	1.7	1.6
	Benzo[g,h,]perylene	191242	mg kg-1	M	< 0.1	1.2	0.87
	Total (of 16) PAHs		mg kg-1	M	11	27	22
2760	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-1	U	< 1.0	< 1.0	< 1.0

All tests undertaken between 21/01/2013 and 29/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
29 January 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2760	Dichloromethane	75092	µg kg-¹	N	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0

All tests undertaken between 21/01/2013 and 29/01/2013

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
29 January 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2760	Ethylbenzene	100414	µg kg-¹	M	4.3	2.2	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	4.4	1.8	< 1.0
	o-Xylene	95476	µg kg-¹	U	2.1	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0
2790	Phenol	108952	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethyl)ether	111444	mg kg-¹	N	< 0.5	< 0.5	< 0.5

All tests undertaken between 21/01/2013 and 29/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
29 January 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2790	2-Chlorophenol	95578	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	1,3-Dichlorobenzene	541731	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	1,4-Dichlorobenzene	106467	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	1,2-Dichlorobenzene	95501	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Methylphenol	95487	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	bis(2-Chloroisopropyl)ether	108601	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Methylphenol	106445	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	N-Nitrosodi-n-propylamine	621647	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Hexachloroethane	67721	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Nitrobenzene	98953	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Isophorone	78591	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Nitrophenol	88755	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4-Dimethylphenol	105679	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethoxy)methane	111911	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4-Dichlorophenol	120832	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	1,2,4-Trichlorobenzene	120821	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Naphthalene	91203	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Chloroaniline	106478	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Hexachlorobutadiene	87683	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Chloro-3-methylphenol	59507	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Methylnaphthalene	91576	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Hexachlorocyclopentadiene	77474	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4,6-Trichlorophenol	88062	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4,5-Trichlorophenol	95954	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Chloronaphthalene	91587	mg kg-¹	N	< 0.5	< 0.5	< 0.5

All tests undertaken between 21/01/2013 and 29/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
29 January 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2790	2-Nitroaniline	88744	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Dimethylphthalate	131113	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,6-Dinitrotoluene	606202	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Acenaphthylene	208968	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	3-Nitroaniline	99092	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Acenaphthene	83329	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Dibenzofuran	132649	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4-Dinitrotoluene	121142	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Diethylphthalate	84662	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Fluorene	86737	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Chlorophenylphenylether	7005723	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Nitroaniline	100016	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Methyl-4,6-dinitrophenol	534521	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Azobenzene	103333	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Bromophenylphenylether	101553	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Hexachlorobenzene	118741	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Pentachlorophenol	87865	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Phenanthrene	85018	mg kg-¹	N	< 0.5	0.69	< 0.5
	Anthracene	120127	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Carbazole	86748	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Di-n-butylphthalate	84742	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Fluoranthene	206440	mg kg-¹	N	0.64	2.4	0.66
	Pyrene	129000	mg kg-¹	N	0.60	1.8	0.65
	Butylbenzylphthalate	85687	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Benzo[a]anthracene	56553	mg kg-¹	N	< 0.5	< 0.5	< 0.5

All tests undertaken between 21/01/2013 and 29/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
29 January 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2790	Chrysene	218019	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	bis(2-Ethylhexyl)phthalate	117817	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Di-n-octylphthalate	117840	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Benzo[b]fluoranthene	205992	mg kg-¹	N	< 0.5	0.87	< 0.5
	Benzo[k]fluoranthene	207089	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Benzo[a]pyrene	50328	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Dibenzo[a,h]anthracene	53703	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Benzo[g,h,]perylene	191242	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4-Dinitrophenol	51285	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Nitrophenol	100027	mg kg-¹	N	< 0.5	< 0.5	< 0.5
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3

All tests undertaken between 21/01/2013 and 29/01/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
12 February 2013

Dear [redacted]

Test Report Number **220709a Amended Test Report**

Your Project Reference **35875-002 - QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 21 January 2013.

Please find 1, 1, 2, 2 Tetrachloroethane results now reported. Disregard all previous reports.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

[redacted]

UKAS TESTING
2183

ISO 14001 sira UKAS ENVIRONMENTAL MANAGEMENT

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*
- *All results are expressed on a dry weight basis*
- *The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, phenols*
- *For all other tests the samples were dried at < 37°C prior to analysis*
- *Uncertainties of measurement for the determinands tested are available upon request*
- *None of the test results included in this report have been recovery corrected*

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
29 January 2013

Dear [redacted]

Test Report Number **220709**
Your Project Reference **35875-002 - QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 21 January 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
- *Samples associated with asbestos are retained for six months*
- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

Chemtest
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
29 January 2013

Dear [redacted]

Test Report Number **220709**

Your Project Reference **35875-002 - QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 21 January 2013.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
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- *For all other tests the samples were dried at < 37°C prior to analysis*
- *Uncertainties of measurement for the determinands tested are available upon request*
- *None of the test results included in this report have been recovery corrected*

Chemtest
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
21 February 2013

Dear [redacted]

Test Report Number **222026**
Your Project Reference **35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford**

Please find enclosed the results of analysis for the samples received 7 February 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely,

[redacted]

2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
- *Samples associated with asbestos are retained for six months*
- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

Chemtest
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
20 February 2013

Dear [redacted]

Test Report Number **222026**
Your Project Reference **35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford**

Please find enclosed the results of analysis for the samples received 7 February 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely,
[redacted]

2183

Notes to accompany report:
- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
07 March 2013

Dear [redacted]

Test Report Number **223643**
Your Project Reference **35875-002 - QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 14 February 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

Authorised Signatory

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
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- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

UKAS TESTING
2183

ISO 14001 sira UKAS ENVIRONMENTAL MANAGEMENT

Chemtest
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
21 February 2013

Dear [redacted]

Test Report Number **223643**
Your Project Reference **35875-002 - QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 14 February 2013.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
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- *None of the test results included in this report have been recovery corrected*

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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
25 March 2013

Dear [redacted]

Test Report Number **225856**
Your Project Reference **Queen Elizabeth Olympic Park, Stratford - 35875-002**

Please find enclosed the results of analysis for the samples received 15 March 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

UKAS TESTING
2183

ISO 14001 sira UKAS ENVIRONMENTAL MANAGEMENT

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
05 April 2013

Dear [redacted]

Test Report Number **226199**
Your Project Reference **35875-002 - QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 21 March 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
- *Samples associated with asbestos are retained for six months*
- *The results relate only to the items tested as supplied by the client*
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
03 April 2013

Dear [redacted]

Test Report Number **226199**
Your Project Reference **35875-002 - QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 21 March 2013.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

2183

Notes to accompany report:

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- *Tests marked 'U' hold UKAS accreditation*
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Newmarket
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Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
07 June 2013

Dear [redacted]

Test Report Number **231234**
Your Project Reference **35875-002- Queen Elizabeth Olympic Park- QEOP-CS**

Please find enclosed the results of analysis for the samples received 30 May 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely,
[redacted]

2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
- *Samples associated with asbestos are retained for six months*
- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
07 June 2013

Dear [redacted]

Test Report Number **231234**
Your Project Reference **35875-002- Queen Elizabeth Olympic Park- QEOP-CS**

Please find enclosed the results of analysis for the samples received 30 May 2013.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely
[redacted]

2183

Notes to accompany report:
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
12 June 2013

Dear [redacted]

Test Report Number **231549**
Your Project Reference **35875-003 - QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 4 June 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely,

[redacted]

2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
- *Samples associated with asbestos are retained for six months*
- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

Chemtest
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
12 June 2013

Dear [redacted]

Test Report Number **231549**
Your Project Reference **35875-003 - QEOP-CS - Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 4 June 2013.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely,

[redacted]

2183

Notes to accompany report:

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- *Tests marked 'U' hold UKAS accreditation*
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
24 June 2013

Dear [redacted]

Test Report Number **232472**
Your Project Reference **QEOP-CS - Queen Elizabeth Olympic Park - 35875-002**

Please find enclosed the results of analysis for the samples received 14 June 2013.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely,

[redacted]

2183

Notes to accompany report:

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- *Tests marked 'U' hold UKAS accreditation*
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- *None of the test results included in this report have been recovery corrected*

Chemtest
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
22 July 2013

Dear [redacted]

Test Report Number **232936**
Your Project Reference **Queen Elizabeth Olympic Park - 35875-002**

Please find enclosed the results of analysis for the samples received 20 June 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
- *Samples associated with asbestos are retained for six months*
- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
22 July 2013

Dear [redacted]

Test Report Number **232943**
Your Project Reference **Queen Elizabeth Olympic Park - 35875-002**

Please find enclosed the results of analysis for the samples received 20 June 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
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- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
02 July 2013

Dear [redacted]

Test Report Number **232943**
Your Project Reference **Queen Elizabeth Olympic Park - 35875-002**

Please find enclosed the results of analysis for the samples received 20 June 2013.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

2183

Notes to accompany report:

- *The sign < means 'less than'*
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Chemtest
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
06 September 2013

Dear [redacted]

Test Report Number **237636**
Your Project Reference **35875-002- Queen Elizabeth Olympic Park- QEOP-CS**

Please find enclosed the results of analysis for the samples received 29 August 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

UKAS TESTING
2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
06 September 2013

Dear [redacted]

Test Report Number **237636**

Your Project Reference **35875-002- Queen Elizabeth Olympic Park- QEOP-CS**

Please find enclosed the results of analysis for the samples received 29 August 2013.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

UKAS TESTING
2183

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Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
04 October 2013

Dear [redacted]

Test Report Number **239706**
Your Project Reference **QEOP-CS Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 30 September 2013.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

Authorised Signatory

UKAS TESTING
2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
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- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
05 February 2014

Login Batch No						**250192**	
Chemtest LIMS ID						AJ76279	AJ76280
Sample ID						cslt-15-201	cslt-15-202
Sample No						NC24	NC24
Sampling Date						28/1/2014	28/1/2014
Depth						0.40m	0.40m
Matrix						*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
1300	Cyanide (free)	57125	mg l-¹	U		<0.050	<0.050
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U		0.10	0.10
1220	Sulfate	14808798	mg l-¹	U		18	14
1450	Arsenic	7440382	µg l-¹	U		20	21
	Cadmium	7440439	µg l-¹	U		0.22	<0.080
	Copper	7440508	µg l-¹	U		29	32
	Mercury	7439976	µg l-¹	U		<0.50	<0.50
	Nickel	7440020	µg l-¹	U		2.1	1.7
	Lead	7439921	µg l-¹	U		72	99
	Selenium	7782492	µg l-¹	U		1.4	1.1
	Zinc	7440666	µg l-¹	U		30	30
1490	Chromium (hexavalent)	18540299	µg l-¹	U		<20	<20
1700	Naphthalene	91203	µg l-¹	U		<0.1	<0.1
	Acenaphthylene	208968	µg l-¹	U		<0.1	<0.1
	Acenaphthene	83329	µg l-¹	U		<0.1	<0.1
	Fluorene	86737	µg l-¹	U		<0.1	<0.1
	Phenanthrene	85018	µg l-¹	U		<0.1	<0.1
	Anthracene	120127	µg l-¹	U		<0.1	<0.1
	Fluoranthene	206440	µg l-¹	U		<0.1	1.9
	Pyrene	129000	µg l-¹	U		<0.1	2.3
	Benzo[a]anthracene	56553	µg l-¹	U		<0.1	<0.1
	Chrysene	218019	µg l-¹	U		<0.1	<0.1
	Benzo[b]fluoranthene	205992	µg l-¹	N		<0.1	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	N		<0.1	<0.1

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 2 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Report Date
05 February 2014

					250192	
					AJ76279	AJ76280
					cslt-15-201	cslt-15-202
					NC24	NC24
					28/1/2014	28/1/2014
					0.40m	0.40m
					LEACHATE	*LEACHATE*
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1	<0.1
	Total (of 16) PAHs		µg l-¹	U	<2	4.2
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
05 February 2014

Login Batch No						**250192**	
Chemtest LIMS ID						AJ76277	AJ76278
Sample ID						cslt-15-201	cslt-15-202
Sample No						NC24	NC24
Sampling Date						28/1/2014	28/1/2014
Depth						0.40m	0.40m
Matrix						*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2300	Cyanide (free)	57125	mg kg-¹	M		<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N		<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M		27	47
	Cadmium	7440439	mg kg-¹	M		0.53	0.36
	Copper	7440508	mg kg-¹	M		110	170
	Mercury	7439976	mg kg-¹	M		1.9	4.4
	Nickel	7440020	mg kg-¹	M		35	37
	Lead	7439921	mg kg-¹	M		590	950
	Selenium	7782492	mg kg-¹	M		<0.20	<0.20
	Zinc	7440666	mg kg-¹	M		250	330
2675	TPH aliphatic >C5-C6		mg kg-¹	N		< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N		< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M		< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M		< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M		< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M		< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N		< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N		< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N		< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	N		1.4	< 1
	TPH aromatic >C12-C16		mg kg-¹	M		2.8	2.9
	TPH aromatic >C16-C21		mg kg-¹	M		11	13

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
05 February 2014

					250192	
					AJ76277	AJ76278
					cslt-15-201	cslt-15-202
					NC24	NC24
					28/1/2014	28/1/2014
					0.40m	0.40m
					SOIL	*SOIL*
2675	TPH aromatic >C21-C35		mg kg-¹	N	30	36
	TPH aromatic >C35-C44		mg kg-¹	N	3.7	3.5
	Total Petroleum Hydrocarbons		mg kg-¹	N	48	55
2700	Naphthalene	91203	mg kg-¹	M	< 0.1	0.37
	Acenaphthylene	208968	mg kg-¹	M	0.5	0.45
	Acenaphthene	83329	mg kg-¹	M	0.27	0.27
	Fluorene	86737	mg kg-¹	M	0.27	< 0.1
	Phenanthrene	85018	mg kg-¹	M	3.5	3.4
	Anthracene	120127	mg kg-¹	M	1.2	1
	Fluoranthene	206440	mg kg-¹	M	8.7	8.6
	Pyrene	129000	mg kg-¹	M	7.8	7.8
	Benzo[a]anthracene	56553	mg kg-¹	M	4.6	4.7
	Chrysene	218019	mg kg-¹	M	4.7	4.7
	Benzo[b]fluoranthene	205992	mg kg-¹	N	6.2	6
	Benzo[k]fluoranthene	207089	mg kg-¹	N	4.1	3.3
	Benzo[a]pyrene	50328	mg kg-¹	M	5.3	5.1
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.42	0.62
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	3.6	3.4
	Benzo[g,h,]perylene	191242	mg kg-¹	M	3.9	3.6
	Total (of 16) PAHs		mg kg-¹	M	55	53
2760	Methyl tert-butylether	1634044	µg kg-¹	M	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	M	< 20	< 20

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Report Date
05 February 2014

					250192	
					AJ76277	AJ76278
					cslt-15-201	cslt-15-202
					NC24	NC24
					28/1/2014	28/1/2014
					0.40m	0.40m
					SOIL	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	M	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	M	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	M	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	M	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	M	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	M	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	M	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	M	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Report Date
05 February 2014

					250192	
					AJ76277	AJ76278
					cslt-15-201	cslt-15-202
					NC24	NC24
					28/1/2014	28/1/2014
					0.40m	0.40m
					SOIL	*SOIL*
2760	1,2-Dibromoethane	106934	µg kg-¹	M	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	M	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	M	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	M	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	M	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	M	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	M	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	M	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	M	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	M	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	M	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Report Date
05 February 2014

					250192	
					AJ76277	AJ76278
					cslt-15-201	cslt-15-202
					NC24	NC24
					28/1/2014	28/1/2014
					0.40m	0.40m
					SOIL	*SOIL*
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	M	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	M	<0.3	<0.3

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
05 February 2014

Dear [redacted]

Test Report Number **250192**
Your Project Reference **35875-002 Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 29 January 2014.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

UKAS TESTING
2183

Notes to accompany report:

- *The in-house procedure is employed to identify materials and fibres in soils*
- *The sample is examined by stereo-binocular and polarised light microscopy*
- *Sample size is reduced by coning and quartering to obtain a representative sub-sample if necessary*
- *The bulk identification is in accordance with the requirements of the analyst guide (HSG 248)*
- *Samples associated with asbestos are retained for six months*
- *The results relate only to the items tested as supplied by the client*
- *Comments or interpretations are beyond the scope of UKAS accreditation*

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]
05 February 2014

Dear [redacted]

Test Report Number **250192**
Your Project Reference **35875-002 Queen Elizabeth Olympic Park**

Please find enclosed the results of analysis for the samples received 29 January 2014.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

[redacted]

UKAS TESTING
2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*
- *All results are expressed on a dry weight basis*
- *The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, phenols*
- *For all other tests the samples were dried at < 37°C prior to analysis*
- *Uncertainties of measurement for the determinands tested are available upon request*
- *None of the test results included in this report have been recovery corrected*

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 5 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

Login Batch No					**219438**					
Chemtest LIMS ID					AI09833	AI09834	AI09835	AI09836	AI26327	
Sample ID					CSLT-15-02	CSLT-15-15	CSLT-15-33	CSLT-15-43	CSLT-15-36	
Sample No					NC20	NC20	NC20	NC20	NC20	
Sampling Date					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	
Depth					0.20m	0.20m	0.20m	0.20m	0.20m	
Matrix					*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*	
SOP↓	Determinand↓	CAS No↓	Units↓	*						
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U	0.25	0.21	0.19	0.24		
1300	Cyanide (free)	57125	mg l-¹	U	<0.050	<0.050	<0.050	<0.050		
1220	Sulfate	14808798	mg l-¹	U	130	120	120	120		
1450	Arsenic	7440382	µg l-¹	U	13	9.0	11	12		
	Cadmium	7440439	µg l-¹	U	0.10	<0.080	<0.080	<0.080		
	Copper	7440508	µg l-¹	U	11.0	10.0	9.0	7.0		
	Mercury	7439976	µg l-¹	U	<0.5	<0.5	<0.5	<0.5		
	Nickel	7440020	µg l-¹	U	<1.0	<1.0	<1.0	<1.0		
	Lead	7439921	µg l-¹	U	<1.0	<1.0	<1.0	<1.0		
	Selenium	7782492	µg l-¹	U	12.0	5.0	7.0	5.0		
	Zinc	7440666	µg l-¹	U	8.0	7.0	8.0	7.0		
1490	Chromium (hexavalent)	18540299	µg l-¹	U	<20	<20	<20	<20		
1675	TPH aliphatic >C5-C6		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aliphatic >C6-C8		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aliphatic >C8-C10		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aliphatic >C10-C12		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aliphatic >C12-C16		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aliphatic >C16-C21		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aliphatic >C21-C35		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aliphatic >C35-C44		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aromatic >C5-C7		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aromatic >C7-C8		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aromatic >C8-C10		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]	
	TPH aromatic >C10-C12		µg l-¹	N	1.7	1.1	1.1	3.6	[1]	

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

All tests undertaken between 30/12/1899 and 11/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 5 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					219438				
					AI09833	AI09834	AI09835	AI09836	AI26327
					CSLT-15-02	CSLT-15-15	CSLT-15-33	CSLT-15-43	CSLT-15-36
					NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m
					LEACHATE	*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*
1675	TPH aromatic >C12-C16		µg l-¹	N	19	11	11	22	[1]
	TPH aromatic >C16-C21		µg l-¹	N	60	26	26	39	[1]
	TPH aromatic >C21-C35		µg l-¹	N	110	46	46	58	[1]
	TPH aromatic >C35-C44		µg l-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	[1]
	Total Petroleum Hydrocarbons		µg l-¹	N	190	84	84	120	[1]
	Total Aliphatic Hydrocarbons		µg l-¹	N	< 5	< 5	< 5	< 5	[1]
	Total Aromatic Hydrocarbons		µg l-¹	N	190	84	84	120	[1]
1700	Naphthalene	91203	µg l-¹	U	<0.1	<0.1	<0.1	<0.1	
	Acenaphthylene	208968	µg l-¹	U	<0.1	<0.1	<0.1	<0.1	
	Acenaphthene	83329	µg l-¹	U	2	<0.1	0.5	0.9	
	Fluorene	86737	µg l-¹	U	1.4	<0.1	0.6	0.7	
	Phenanthrene	85018	µg l-¹	U	5.6	<0.1	2.1	2.7	
	Anthracene	120127	µg l-¹	U	1.6	<0.1	1.3	0.7	
	Fluoranthene	206440	µg l-¹	U	9.8	<0.1	4.6	4.8	
	Pyrene	129000	µg l-¹	U	10	<0.1	4.9	4.6	
	Benzo[a]anthracene	56553	µg l-¹	U	4.6	<0.1	2.5	2	
	Chrysene	218019	µg l-¹	U	6.2	<0.1	3	2.5	
	Benzo[b]fluoranthene	205992	µg l-¹	U	6.5	<0.1	2.3	3	
	Benzo[k]fluoranthene	207089	µg l-¹	U	3.1	<0.1	1.9	1.3	
	Benzo[a]pyrene	50328	µg l-¹	U	6.8	<0.1	3.7	6	
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	0.3	<0.1	<0.1	<0.1	
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	1	<0.1	0.5	<0.1	
	Benzo[g,h,]perylene	191242	µg l-¹	U	0.8	<0.1	1.8	2.2	
	Total (of 16) PAHs		µg l-¹	U	60	<2	30	31	
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03	< 0.03	< 0.03	

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

Login Batch No						**219438**					
Chemtest LIMS ID						AI09813	AI09814	AI09815	AI09816	AI09817	AI09818
Sample ID						CSLT-15-02	CSLT-15-03	CSLT-15-06	CSLT-15-07	CSLT-15-08	CSLT-15-09
Sample No						NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date						17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
Depth						0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
Matrix						*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*							
2300	Cyanide (free)	57125	mg kg-¹	M		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M		9.0	11	21	9.6	13	9.8
	Cadmium	7440439	mg kg-¹	M		0.14	0.20	0.19	0.14	0.16	0.19
	Mercury	7439976	mg kg-¹	M		0.55	0.36	1.1	0.55	0.49	0.93
	Nickel	7440020	mg kg-¹	M		15	15	24	18	45	18
	Lead	7439921	mg kg-¹	M		110	190	140	120	210	200
	Selenium	7782492	mg kg-¹	M		0.55	0.35	0.69	0.49	0.68	0.84
2675	TPH aliphatic >C5-C6		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M		< 1	1.2	< 1	2.5	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M		< 1	4.2	< 1	6.0	< 1	< 1
	TPH aromatic >C21-C35		mg kg-¹	M		< 1	11	< 1	8.6	< 1	< 1
	TPH aromatic >C35-C44		mg kg-¹	N		< 1	< 1	< 1	< 1	< 1	< 1

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

All tests undertaken between 30/12/1899 and 11/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

Login Batch No					**219438**						
Chemtest LIMS ID					AI09819	AI09820	AI09821	AI09822	AI09823	AI09824
Sample ID					CSLT-15-10	CSLT-15-12	CSLT-15-13	CSLT-15-15	CSLT-15-32	CSLT-15-33
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
Depth					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	8.8	9.5	7.7	13	8.2	9.8
	Cadmium	7440439	mg kg-¹	M	0.13	0.21	0.12	0.19	0.18	0.15
	Mercury	7439976	mg kg-¹	M	0.45	0.62	0.27	0.58	0.43	0.39
	Nickel	7440020	mg kg-¹	M	15	18	16	21	15	13
	Lead	7439921	mg kg-¹	M	120	830	94	240	190	95
	Selenium	7782492	mg kg-¹	M	0.55	0.55	0.67	0.62	0.44	0.47
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	1.3	< 1	1.8	1.7	1.8
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	3.8	< 1	4.6	21	5.9
	TPH aromatic >C21-C35		mg kg-¹	M	< 1	5.7	< 1	9.5	24	13
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

Login Batch No					**219438**						
Chemtest LIMS ID					AI09825	AI09826	AI09827	AI09828	AI09829	AI09830
Sample ID					CSLT-15-36	CSLT-15-37	CSLT-15-38	CSLT-15-39	CSLT-15-40	CSLT-15-42
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
Depth					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50	<0.50	<0.50	0.70	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	8.4	19	15	15	14	10
	Cadmium	7440439	mg kg-¹	M	0.12	0.12	0.11	0.11	0.12	0.11
	Mercury	7439976	mg kg-¹	M	0.50	0.42	0.94	0.36	0.43	0.24
	Nickel	7440020	mg kg-¹	M	17	20	21	16	18	9.3
	Lead	7439921	mg kg-¹	M	130	110	120	120	110	91
	Selenium	7782492	mg kg-¹	M	0.57	0.47	0.91	0.56	0.62	0.40
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	3.9
	TPH aromatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	9.5
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

Login Batch No					**219438**	
Chemtest LIMS ID					AI09831	AI09832
Sample ID					CSLT-15-43	CSLT-15-45
Sample No					NC20	NC20
Sampling Date					17/12/2012	17/12/2012
Depth					0.20m	0.20m
Matrix					*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*		
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	15	15
	Cadmium	7440439	mg kg-¹	M	0.15	0.11
	Mercury	7439976	mg kg-¹	M	0.48	0.73
	Nickel	7440020	mg kg-¹	M	18	19
	Lead	7439921	mg kg-¹	M	560	240
	Selenium	7782492	mg kg-¹	M	0.64	0.60
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	1.3	2.9
	TPH aromatic >C16-C21		mg kg-¹	M	4.1	21
	TPH aromatic >C21-C35		mg kg-¹	M	10	21
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

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					219438					
					AI09813	AI09814	AI09815	AI09816	AI09817	AI09818
					CSLT-15-02	CSLT-15-03	CSLT-15-06	CSLT-15-07	CSLT-15-08	CSLT-15-09
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-1	N	< 10	16	< 10	17	< 10	< 10
2700	Naphthalene	91203	mg kg-1	M	0.15	< 0.1	0.18	0.23	0.26	0.5
	Acenaphthylene	208968	mg kg-1	M	0.32	0.23	0.31	0.26	0.3	0.73
	Acenaphthene	83329	mg kg-1	M	0.5	< 0.1	0.38	0.45	< 0.1	0.5
	Fluorene	86737	mg kg-1	M	0.24	0.24	0.11	0.14	0.18	0.62
	Phenanthrene	85018	mg kg-1	M	1.4	1.5	1.2	1.1	0.92	3.4
	Anthracene	120127	mg kg-1	M	0.68	0.82	0.64	0.49	0.61	1.3
	Fluoranthene	206440	mg kg-1	M	2.2	3.5	2.3	1.7	1.7	3
	Pyrene	129000	mg kg-1	M	2.5	3.1	2.1	1.6	1.6	2.4
	Benzo[a]anthracene	56553	mg kg-1	M	1.3	1.5	1.3	0.91	0.81	1.4
	Chrysene	218019	mg kg-1	M	1.5	1.8	1.4	0.99	0.98	1.6
	Benzo[b]fluoranthene	205992	mg kg-1	M	1.6	1.4	1.5	1	0.87	0.87
	Benzo[k]fluoranthene	207089	mg kg-1	M	1.6	1.9	1.5	1	0.57	1.3
	Benzo[a]pyrene	50328	mg kg-1	M	1.8	1.9	1.2	1	0.69	1
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	< 0.1	0.13	< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	< 0.1	1	0.73	0.3	0.34	0.56
	Benzo[g,h,]perylene	191242	mg kg-1	M	0.75	0.93	0.33	0.23	0.34	0.5
	Total (of 16) PAHs		mg kg-1	M	17	20	15	11	10	20
2760	Methyl tert-butyl ether		µg kg-1		< 1	< 1	< 1	< 1	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

BAM Nuttall Ltd
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AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
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QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					219438					
					AI09819	AI09820	AI09821	AI09822	AI09823	AI09824
					CSLT-15-10	CSLT-15-12	CSLT-15-13	CSLT-15-15	CSLT-15-32	CSLT-15-33
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10	11	< 10	16	46	21
2700	Naphthalene	91203	mg kg-¹	M	0.11	0.18	0.32	0.35	0.28	0.35
	Acenaphthylene	208968	mg kg-¹	M	0.19	0.23	0.31	0.69	0.23	0.3
	Acenaphthene	83329	mg kg-¹	M	0.28	0.25	0.24	0.42	0.77	0.75
	Fluorene	86737	mg kg-¹	M	0.18	0.54	0.27	0.56	0.85	0.49
	Phenanthrene	85018	mg kg-¹	M	1.4	2.2	0.71	1.1	6.3	2.5
	Anthracene	120127	mg kg-¹	M	0.5	1.3	0.36	0.62	2.2	0.99
	Fluoranthene	206440	mg kg-¹	M	2	1.7	0.77	1.7	12	4.2
	Pyrene	129000	mg kg-¹	M	1.7	1.6	0.61	1.5	8.4	4.1
	Benzo[a]anthracene	56553	mg kg-¹	M	1.1	0.66	0.53	0.87	5.8	2.2
	Chrysene	218019	mg kg-¹	M	1.2	0.83	0.58	0.89	6.5	2.7
	Benzo[b]fluoranthene	205992	mg kg-¹	M	1.2	0.78	0.35	0.78	6.7	2.7
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.84	0.44	0.44	1	3.6	1.6
	Benzo[a]pyrene	50328	mg kg-¹	M	0.16	< 0.1	0.44	1	4.8	1.7
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.2	0.17	< 0.1	0.38	1.2	0.58
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.55	0.58	0.16	0.49	3.3	1.8
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.68	0.53	0.36	0.81	3.3	1.6
	Total (of 16) PAHs		mg kg-¹	M	12	12	6.5	13	66	29
2760	Methyl tert-butyl ether		µg kg-¹		< 1	< 1	< 1	< 1	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					219438					
					AI09825	AI09826	AI09827	AI09828	AI09829	AI09830
					CSLT-15-36	CSLT-15-37	CSLT-15-38	CSLT-15-39	CSLT-15-40	CSLT-15-42
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10	< 10	< 10	< 10	< 10	14
2700	Naphthalene	91203	mg kg-¹	M	< 0.1	0.37	0.34	< 0.1	0.23	< 0.1
	Acenaphthylene	208968	mg kg-¹	M	0.26	0.21	0.22	< 0.1	0.13	< 0.1
	Acenaphthene	83329	mg kg-¹	M	0.33	0.57	0.43	< 0.1	0.52	0.15
	Fluorene	86737	mg kg-¹	M	0.23	0.28	0.54	0.15	0.17	0.16
	Phenanthrene	85018	mg kg-¹	M	0.98	2.1	0.87	1.3	2	1.1
	Anthracene	120127	mg kg-¹	M	0.58	0.77	0.44	0.44	0.51	0.37
	Fluoranthene	206440	mg kg-¹	M	1.1	2.5	1.2	1.8	2.2	1.7
	Pyrene	129000	mg kg-¹	M	1	2.3	1.2	1.8	1.8	1.6
	Benzo[a]anthracene	56553	mg kg-¹	M	0.66	1.5	0.59	0.87	0.98	0.7
	Chrysene	218019	mg kg-¹	M	0.74	1.7	0.81	1	1	0.83
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.72	1.9	0.75	0.9	0.92	0.83
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.56	2.2	0.7	0.76	0.58	0.61
	Benzo[a]pyrene	50328	mg kg-¹	M	0.17	0.17	0.66	0.52	0.8	0.51
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	< 0.1	0.17	< 0.1	0.17	0.11	0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	< 0.1	0.63	< 0.1	0.71	0.56	0.59
	Benzo[g,h,]perylene	191242	mg kg-¹	M	< 0.1	0.48	< 0.1	0.67	0.46	0.51
	Total (of 16) PAHs		mg kg-¹	M	7.3	18	8.8	11	13	9.8
2760	Methyl tert-butyl ether		µg kg-¹		< 1	< 1	< 1	< 1	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

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received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					219438	
					AI09831	AI09832
					CSLT-15-43	CSLT-15-45
					NC20	NC20
					17/12/2012	17/12/2012
					0.20m	0.20m
					SOIL	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	16	45
2700	Naphthalene	91203	mg kg-¹	M	< 0.1	0.18
	Acenaphthylene	208968	mg kg-¹	M	< 0.1	0.13
	Acenaphthene	83329	mg kg-¹	M	0.23	0.29
	Fluorene	86737	mg kg-¹	M	0.13	0.26
	Phenanthrene	85018	mg kg-¹	M	1.1	1.8
	Anthracene	120127	mg kg-¹	M	0.9	0.55
	Fluoranthene	206440	mg kg-¹	M	1.6	3.3
	Pyrene	129000	mg kg-¹	M	1.6	3.5
	Benzo[a]anthracene	56553	mg kg-¹	M	0.73	1.7
	Chrysene	218019	mg kg-¹	M	0.86	1.8
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.83	1.8
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.64	1.3
	Benzo[a]pyrene	50328	mg kg-¹	M	0.73	1.9
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.11	0.49
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.61	1.4
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.7	1.5
	Total (of 16) PAHs		mg kg-¹	M	11	22
2760	Methyl tert-butyl ether		µg kg-¹		< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0

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					219438					
					AI09813	AI09814	AI09815	AI09816	AI09817	AI09818
					CSLT-15-02	CSLT-15-03	CSLT-15-06	CSLT-15-07	CSLT-15-08	CSLT-15-09
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

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AMENDED LABORATORY TEST REPORT

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QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
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Report Date
12 February 2013

					219438					
					AI09819	AI09820	AI09821	AI09822	AI09823	AI09824
					CSLT-15-10	CSLT-15-12	CSLT-15-13	CSLT-15-15	CSLT-15-32	CSLT-15-33
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

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					219438					
					AI09825	AI09826	AI09827	AI09828	AI09829	AI09830
					CSLT-15-36	CSLT-15-37	CSLT-15-38	CSLT-15-39	CSLT-15-40	CSLT-15-42
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

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Report Date
12 February 2013

					219438	
					AI09831	AI09832
					CSLT-15-43	CSLT-15-45
					NC20	NC20
					17/12/2012	17/12/2012
					0.20m	0.20m
					SOIL	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

BAM Nuttall Ltd
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Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					219438					
					AI09813	AI09814	AI09815	AI09816	AI09817	AI09818
					CSLT-15-02	CSLT-15-03	CSLT-15-06	CSLT-15-07	CSLT-15-08	CSLT-15-09
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

BAM Nuttall Ltd
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GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					219438					
					AI09819	AI09820	AI09821	AI09822	AI09823	AI09824
					CSLT-15-10	CSLT-15-12	CSLT-15-13	CSLT-15-15	CSLT-15-32	CSLT-15-33
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					219438					
					AI09825	AI09826	AI09827	AI09828	AI09829	AI09830
					CSLT-15-36	CSLT-15-37	CSLT-15-38	CSLT-15-39	CSLT-15-40	CSLT-15-42
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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BAM Nuttall Ltd
St James House
Knoll Road
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GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					219438	
					AI09831	AI09832
					CSLT-15-43	CSLT-15-45
					NC20	NC20
					17/12/2012	17/12/2012
					0.20m	0.20m
					SOIL	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

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GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					219438					
					AI09813	AI09814	AI09815	AI09816	AI09817	AI09818
					CSLT-15-02	CSLT-15-03	CSLT-15-06	CSLT-15-07	CSLT-15-08	CSLT-15-09
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-[1]	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

All tests undertaken between 30/12/1899 and 11/02/2013
* Accreditation status
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BAM Nuttall Ltd
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FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					219438					
					AI09819	AI09820	AI09821	AI09822	AI09823	AI09824
					CSLT-15-10	CSLT-15-12	CSLT-15-13	CSLT-15-15	CSLT-15-32	CSLT-15-33
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-[1]	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

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received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					219438					
					AI09825	AI09826	AI09827	AI09828	AI09829	AI09830
					CSLT-15-36	CSLT-15-37	CSLT-15-38	CSLT-15-39	CSLT-15-40	CSLT-15-42
					NC20	NC20	NC20	NC20	NC20	NC20
					17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-[1]	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

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AMENDED LABORATORY TEST REPORT

Results of analysis of 25 samples
received 19 December 2012

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					219438	
					AI09831	AI09832
					CSLT-15-43	CSLT-15-45
					NC20	NC20
					17/12/2012	17/12/2012
					0.20m	0.20m
					SOIL	*SOIL*
2920	Phenols (total)		mg kg-[1]	N	<0.3	<0.3

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 20 samples
received 19 December 2012
QEOP-CS - Queen Elizabeth Olympic Park

Report Date
08 January 2013

Login Batch No: 219438

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI09813	NC20	CSLT-15-02	0.20	-	No Asbestos Detected
AI09814	NC20	CSLT-15-03	0.20	-	No Asbestos Detected
AI09815	NC20	CSLT-15-06	0.20	-	No Asbestos Detected
AI09816	NC20	CSLT-15-07	0.20	-	No Asbestos Detected
AI09817	NC20	CSLT-15-08	0.20	-	No Asbestos Detected
AI09818	NC20	CSLT-15-09	0.20	-	No Asbestos Detected
AI09819	NC20	CSLT-15-10	0.20	-	No Asbestos Detected
AI09820	NC20	CSLT-15-12	0.20	-	No Asbestos Detected
AI09821	NC20	CSLT-15-13	0.20	-	No Asbestos Detected
AI09822	NC20	CSLT-15-15	0.20	-	No Asbestos Detected
AI09823	NC20	CSLT-15-32	0.20	-	No Asbestos Detected
AI09824	NC20	CSLT-15-33	0.20	-	No Asbestos Detected
AI09825	NC20	CSLT-15-36	0.20	-	No Asbestos Detected
AI09826	NC20	CSLT-15-37	0.20	-	No Asbestos Detected
AI09827	NC20	CSLT-15-38	0.20	-	No Asbestos Detected
AI09828	NC20	CSLT-15-39	0.20	-	No Asbestos Detected
AI09829	NC20	CSLT-15-40	0.20	-	No Asbestos Detected
AI09830	NC20	CSLT-15-42	0.20	-	No Asbestos Detected
AI09831	NC20	CSLT-15-43	0.20	-	No Asbestos Detected
AI09832	NC20	CSLT-15-45	0.20	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
Chemtest ID	Sample ID	Sample Desc		
AI09813	NC20	CSLT-15-02	<0.001	-
AI09814	NC20	CSLT-15-03	<0.001	-
AI09815	NC20	CSLT-15-06	<0.001	-
AI09816	NC20	CSLT-15-07	<0.001	-
AI09817	NC20	CSLT-15-08	<0.001	-
AI09818	NC20	CSLT-15-09	<0.001	-
AI09819	NC20	CSLT-15-10	<0.001	-
AI09820	NC20	CSLT-15-12	<0.001	-
AI09821	NC20	CSLT-15-13	<0.001	-
AI09822	NC20	CSLT-15-15	<0.001	-
AI09823	NC20	CSLT-15-32	<0.001	-
AI09824	NC20	CSLT-15-33	<0.001	-
AI09825	NC20	CSLT-15-36	<0.001	-
AI09826	NC20	CSLT-15-37	<0.001	-
AI09827	NC20	CSLT-15-38	<0.001	-
AI09828	NC20	CSLT-15-39	<0.001	-
AI09829	NC20	CSLT-15-40	<0.001	-
AI09830	NC20	CSLT-15-42	<0.001	-
AI09831	NC20	CSLT-15-43	<0.001	-
AI09832	NC20	CSLT-15-45	<0.001	-

The detection limit for this method is 0.001%

All tests undertaken between 08-Jan-2013 and 8-Jan-2013

BAM Nuttall Ltd
St James House
Knoll Road
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GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 20 samples
received 19 December 2012
QEOP-CS - Queen Elizabeth Olympic Park

Chemtest

Report Date
08 January 2013

Signed

[redacted]

All tests undertaken between 08-Jan-2013 and 8-Jan-2013

LIMS sample ID range AI09813 to AI09832

BAM Nuttall Ltd
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Knoll Road
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GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 2 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

Login Batch No						**220498**	
Chemtest LIMS ID						AI15934	AI15935
Sample ID						CSLT-15-04	CSLT-15-66
Sample No						NC20	NC20
Sampling Date						15/1/2013	15/1/2013
Depth						0.1m	0.3m
Matrix						*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U		0.46	0.08
1300	Cyanide (free)	57125	mg l-¹	U		< 0.05	< 0.05
1220	Sulfate	14808798	mg l-¹	U		78	64
1450	Arsenic	7440382	µg l-¹	U		11	5.1
	Cadmium	7440439	µg l-¹	U		<0.080	<0.080
	Copper	7440508	µg l-¹	U		16	8.1
	Mercury	7439976	µg l-¹	U		0.85	<0.50
	Nickel	7440020	µg l-¹	U		3.0	7.5
	Lead	7439921	µg l-¹	U		<1.0	1.1
	Selenium	7782492	µg l-¹	U		3.6	2.0
	Zinc	7440666	µg l-¹	U		22	15
1490	Chromium (hexavalent)	18540299	µg l-¹	U		<20	<20
1700	Naphthalene	91203	µg l-¹	U		<0.1	<0.1
	Acenaphthylene	208968	µg l-¹	U		<0.1	<0.1
	Acenaphthene	83329	µg l-¹	U		<0.1	<0.1
	Fluorene	86737	µg l-¹	U		<0.1	<0.1
	Phenanthrene	85018	µg l-¹	U		1.3	0.7
	Anthracene	120127	µg l-¹	U		0.8	<0.1
	Fluoranthene	206440	µg l-¹	U		16	2
	Pyrene	129000	µg l-¹	U		11	2.5
	Benzo[a]anthracene	56553	µg l-¹	U		1.3	1.1
	Chrysene	218019	µg l-¹	U		1.7	1.3
	Benzo[b]fluoranthene	205992	µg l-¹	U		<0.1	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	U		<0.1	<0.1

All tests undertaken between 17/01/2013 and 11/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
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GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 2 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					220498	
					AI15934	AI15935
					CSLT-15-04	CSLT-15-66
					NC20	NC20
					15/1/2013	15/1/2013
					0.1m	0.3m
					LEACHATE	*LEACHATE*
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1	<0.1
	Total (of 16) PAHs		µg l-¹	U	32	7.6
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03

All tests undertaken between 17/01/2013 and 11/02/2013

* Accreditation status

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BAM Nuttall Ltd
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AMENDED LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

Login Batch No						**220498**					
Chemtest LIMS ID						AI15921	AI15922	AI15923	AI15924	AI15925	AI15926
Sample ID						CSLT-15-01	CSLT-15-05	CSLT-15-04	CSLT-15-35	CSLT-15-31	CSLT-15-34
Sample No						NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date						15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
Depth						0.1m	0.1m	0.1m	0.2m	0.1m	0.1m
Matrix						*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*							
2300	Cyanide (free)	57125	mg kg-¹	M		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M		13	12	12	11	150	10
	Cadmium	7440439	mg kg-¹	M		0.11	<0.10	<0.10	0.17	0.11	0.33
	Mercury	7439976	mg kg-¹	M		0.60	0.49	0.64	0.60	0.47	0.31
	Nickel	7440020	mg kg-¹	M		22	19	22	19	18	14
	Lead	7439921	mg kg-¹	M		190	190	210	150	130	140
	Selenium	7782492	mg kg-¹	M		0.67	0.70	0.54	0.78	0.40	0.41
2675	TPH aliphatic >C5-C6		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M		< 1	< 1	< 1	1.4	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M		< 1	< 1	< 1	43	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M		< 1	< 1	4.1	18	< 1	< 1
	TPH aromatic >C21-C35		mg kg-¹	M		< 1	< 1	6.6	13	< 1	< 1
	TPH aromatic >C35-C44		mg kg-¹	N		< 1	< 1	< 1	< 1	< 1	< 1

All tests undertaken between 17/01/2013 and 11/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

Login Batch No					**220498**						
Chemtest LIMS ID					AI15927	AI15928	AI15929	AI15930	AI15931	AI15932
Sample ID					CSLT-15-63	CSLT-15-64	CSLT-15-61	CSLT-15-65	CSLT-15-67	CSLT-15-66
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
Depth					0.1m	0.2m	0.2m	0.3m	0.2m	0.3m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	9.6	15	9.5	7.9	11	6.1
	Cadmium	7440439	mg kg-¹	M	0.13	<0.10	0.12	0.22	0.13	0.12
	Mercury	7439976	mg kg-¹	M	0.30	0.39	0.45	<0.10	0.44	0.12
	Nickel	7440020	mg kg-¹	M	18	19	18	13	21	11
	Lead	7439921	mg kg-¹	M	130	120	120	28	110	39
	Selenium	7782492	mg kg-¹	M	0.59	0.79	0.71	<0.20	0.68	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
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GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

Login Batch No					**220498**
Chemtest LIMS ID					AI15933
Sample ID					CSLT-15-68
Sample No					NC20
Sampling Date					15/1/2013
Depth					0.2m
Matrix					*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5
2450	Arsenic	7440382	mg kg-¹	M	8.1
	Cadmium	7440439	mg kg-¹	M	<0.10
	Mercury	7439976	mg kg-¹	M	0.49
	Nickel	7440020	mg kg-¹	M	15
	Lead	7439921	mg kg-¹	M	99
	Selenium	7782492	mg kg-¹	M	0.33
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1
	TPH aromatic >C21-C35		mg kg-¹	M	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1

* Accreditation status

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St James House
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Camberley
GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					220498					
					AI15921	AI15922	AI15923	AI15924	AI15925	AI15926
					CSLT-15-01	CSLT-15-05	CSLT-15-04	CSLT-15-35	CSLT-15-31	CSLT-15-34
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.1m	0.1m	0.2m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10	< 10	11	76	< 10	< 10
2700	Naphthalene	91203	mg kg-¹	M	0.29	1.2	< 0.1	0.39	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-¹	M	0.72	2	0.34	0.32	< 0.1	< 0.1
	Acenaphthene	83329	mg kg-¹	M	0.61	4.7	0.91	0.74	< 0.1	< 0.1
	Fluorene	86737	mg kg-¹	M	0.23	7.3	0.37	0.12	0.23	0.22
	Phenanthrene	85018	mg kg-¹	M	1.6	53	2.7	0.74	1.7	1.2
	Anthracene	120127	mg kg-¹	M	0.6	12	0.9	0.4	0.71	0.59
	Fluoranthene	206440	mg kg-¹	M	2.2	56	3.4	1.1	3.1	1.7
	Pyrene	129000	mg kg-¹	M	2.3	42	3	1.3	2.8	1.6
	Benzo[a]anthracene	56553	mg kg-¹	M	0.97	21	1.5	0.55	1.5	0.88
	Chrysene	218019	mg kg-¹	M	1.1	21	1.6	0.53	1.6	0.92
	Benzo[b]fluoranthene	205992	mg kg-¹	M	1.1	16	1.4	0.59	1.1	0.6
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.67	12	0.86	0.52	1.2	0.62
	Benzo[a]pyrene	50328	mg kg-¹	M	0.86	16	1.3	0.47	1.4	0.85
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.1	1.9	< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.49	9.3	0.65	0.27	1.1	0.48
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.43	9.7	0.93	0.23	1.3	0.61
	Total (of 16) PAHs		mg kg-¹	M	14	290	20	8.3	18	10
2760	Methyl tert-butyl ether		µg kg-¹		< 1	< 1	< 1	< 1	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 17/01/2013 and 11/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
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GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					220498					
					AI15927	AI15928	AI15929	AI15930	AI15931	AI15932
					CSLT-15-63	CSLT-15-64	CSLT-15-61	CSLT-15-65	CSLT-15-67	CSLT-15-66
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.2m	0.2m	0.3m	0.2m	0.3m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
2700	Naphthalene	91203	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthene	83329	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluorene	86737	mg kg-¹	M	0.16	0.21	0.3	< 0.1	0.18	0.14
	Phenanthrene	85018	mg kg-¹	M	1.1	1.2	1.3	0.41	0.75	0.64
	Anthracene	120127	mg kg-¹	M	0.49	0.64	0.61	0.26	0.6	0.3
	Fluoranthene	206440	mg kg-¹	M	1.6	2	1.9	0.39	1.2	0.88
	Pyrene	129000	mg kg-¹	M	1.5	1.9	1.9	0.39	1.3	0.91
	Benzo[a]anthracene	56553	mg kg-¹	M	0.71	0.97	0.99	0.13	0.59	0.41
	Chrysene	218019	mg kg-¹	M	0.74	1	1	0.18	0.6	0.44
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.83	0.94	0.87	0.25	0.6	0.48
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.57	0.66	0.82	0.2	0.49	0.33
	Benzo[a]pyrene	50328	mg kg-¹	M	0.78	0.92	1	0.3	0.61	0.45
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.1	< 0.1	0.14	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.61	0.65	0.79	< 0.1	0.47	0.27
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.75	0.79	0.75	< 0.1	0.5	0.29
	Total (of 16) PAHs		mg kg-¹	M	9.9	12	12	2.5	7.9	5.5
2760	Methyl tert-butyl ether		µg kg-¹		< 1	< 1	< 1	< 1	< 1	< 1
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					220498
					AI15933
					CSLT-15-68
					NC20
					15/1/2013
					0.2m
					SOIL
2675	Total Petroleum Hydrocarbons		mg kg-1	N	< 10
2700	Naphthalene	91203	mg kg-1	M	1.3
	Acenaphthylene	208968	mg kg-1	M	1.2
	Acenaphthene	83329	mg kg-1	M	2.3
	Fluorene	86737	mg kg-1	M	0.72
	Phenanthrene	85018	mg kg-1	M	6.2
	Anthracene	120127	mg kg-1	M	2.1
	Fluoranthene	206440	mg kg-1	M	7
	Pyrene	129000	mg kg-1	M	5.9
	Benzo[a]anthracene	56553	mg kg-1	M	3.1
	Chrysene	218019	mg kg-1	M	3.3
	Benzo[b]fluoranthene	205992	mg kg-1	M	2.6
	Benzo[k]fluoranthene	207089	mg kg-1	M	2.3
	Benzo[a]pyrene	50328	mg kg-1	M	3
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	0.52
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	2.4
	Benzo[g,h,]perylene	191242	mg kg-1	M	2.2
	Total (of 16) PAHs		mg kg-1	M	46
2760	Methyl tert-butyl ether		µg kg-1		< 1
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0

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QEOP-CS - Queen Elizabeth Olympic Park

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					220498					
					AI15921	AI15922	AI15923	AI15924	AI15925	AI15926
					CSLT-15-01	CSLT-15-05	CSLT-15-04	CSLT-15-35	CSLT-15-31	CSLT-15-34
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.1m	0.1m	0.2m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 17/01/2013 and 11/02/2013

* Accreditation status

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BAM Nuttall Ltd
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Camberley
GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					220498					
					AI15927	AI15928	AI15929	AI15930	AI15931	AI15932
					CSLT-15-63	CSLT-15-64	CSLT-15-61	CSLT-15-65	CSLT-15-67	CSLT-15-66
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.2m	0.2m	0.3m	0.2m	0.3m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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12 February 2013

					220498
					AI15933
					CSLT-15-68
					NC20
					15/1/2013
					0.2m
					SOIL
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10
	Toluene	108883	µg kg-¹	M	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0

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					220498					
					AI15921	AI15922	AI15923	AI15924	AI15925	AI15926
					CSLT-15-01	CSLT-15-05	CSLT-15-04	CSLT-15-35	CSLT-15-31	CSLT-15-34
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.1m	0.1m	0.2m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 17/01/2013 and 11/02/2013

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QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					220498					
					AI15927	AI15928	AI15929	AI15930	AI15931	AI15932
					CSLT-15-63	CSLT-15-64	CSLT-15-61	CSLT-15-65	CSLT-15-67	CSLT-15-66
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.2m	0.2m	0.3m	0.2m	0.3m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

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BAM Nuttall Ltd
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AMENDED LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					220498
					AI15933
					CSLT-15-68
					NC20
					15/1/2013
					0.2m
					SOIL
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0

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AMENDED LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					220498					
					AI15921	AI15922	AI15923	AI15924	AI15925	AI15926
					CSLT-15-01	CSLT-15-05	CSLT-15-04	CSLT-15-35	CSLT-15-31	CSLT-15-34
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.1m	0.1m	0.2m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

All tests undertaken between 17/01/2013 and 11/02/2013

* Accreditation status

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AMENDED LABORATORY TEST REPORT

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QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					220498					
					AI15927	AI15928	AI15929	AI15930	AI15931	AI15932
					CSLT-15-63	CSLT-15-64	CSLT-15-61	CSLT-15-65	CSLT-15-67	CSLT-15-66
					NC20	NC20	NC20	NC20	NC20	NC20
					15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013	15/1/2013
					0.1m	0.2m	0.2m	0.3m	0.2m	0.3m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

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AMENDED LABORATORY TEST REPORT

Results of analysis of 15 samples
received 16 January 2013

QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					220498
					AI15933
					CSLT-15-68
					NC20
					15/1/2013
					0.2m
					SOIL
2920	Phenols (total)		mg kg-¹	N	<0.3

* Accreditation status

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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 13 samples
received 16 January 2013
QEOP-CS - Queen Elizabeth Olympic Park

Report Date
24 January 2013

Login Batch No: 220498

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI15921	NC20	CSLT-15-01	0.1	-	No Asbestos Detected
AI15922	NC20	CSLT-15-05	0.1	Cement	Chrysotile
AI15923	NC20	CSLT-15-04	0.1	Cement	Chrysotile
AI15924	NC20	CSLT-15-35	0.2	-	No Asbestos Detected
AI15925	NC20	CSLT-15-31	0.1	-	No Asbestos Detected
AI15926	NC20	CSLT-15-34	0.1	-	No Asbestos Detected
AI15927	NC20	CSLT-15-63	0.1	-	No Asbestos Detected
AI15928	NC20	CSLT-15-64	0.2	-	No Asbestos Detected
AI15929	NC20	CSLT-15-61	0.2	-	No Asbestos Detected
AI15930	NC20	CSLT-15-65	0.3	-	No Asbestos Detected
AI15931	NC20	CSLT-15-67	0.2	-	No Asbestos Detected
AI15932	NC20	CSLT-15-66	0.3	-	No Asbestos Detected
AI15933	NC20	CSLT-15-68	0.2	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
Chemtest ID	Sample ID	Sample Desc		
AI15921	NC20	CSLT-15-01	<0.001	-
AI15922	NC20	CSLT-15-05	0.021	-
AI15923	NC20	CSLT-15-04	0.018	-
AI15924	NC20	CSLT-15-35	<0.001	-
AI15925	NC20	CSLT-15-31	<0.001	-
AI15926	NC20	CSLT-15-34	<0.001	-
AI15927	NC20	CSLT-15-63	<0.001	-
AI15928	NC20	CSLT-15-64	<0.001	-
AI15929	NC20	CSLT-15-61	<0.001	-
AI15930	NC20	CSLT-15-65	<0.001	-
AI15931	NC20	CSLT-15-67	<0.001	-
AI15932	NC20	CSLT-15-66	<0.001	-
AI15933	NC20	CSLT-15-68	<0.001	-

The detection limit for this method is 0.001%

Signed

[redacted]

All tests undertaken between 24-Jan-2013 and 24-Jan-2013

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AMENDED LABORATORY TEST REPORT

Results of analysis of 1 sample
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

Login Batch No					**220709**
Chemtest LIMS ID					AI17239
Sample ID					CSLT-15-73
Sample No					PDZ15
Sampling Date					17/1/2013
Depth					0.2m
Matrix					*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U	0.27
1300	Cyanide (free)	57125	mg l-¹	U	< 0.05
1220	Sulfate	14808798	mg l-¹	U	83
1450	Arsenic	7440382	µg l-¹	U	6.9
	Cadmium	7440439	µg l-¹	U	<0.080
	Copper	7440508	µg l-¹	U	14
	Mercury	7439976	µg l-¹	U	<0.50
	Nickel	7440020	µg l-¹	U	1.1
	Lead	7439921	µg l-¹	U	<1.0
	Selenium	7782492	µg l-¹	U	2.5
	Zinc	7440666	µg l-¹	U	2.7
1490	Chromium (hexavalent)	18540299	µg l-¹	U	<20
1700	Naphthalene	91203	µg l-¹	U	0.1
	Acenaphthylene	208968	µg l-¹	U	0.1
	Acenaphthene	83329	µg l-¹	U	0.7
	Fluorene	86737	µg l-¹	U	0.6
	Phenanthrene	85018	µg l-¹	U	3.8
	Anthracene	120127	µg l-¹	U	1.2
	Fluoranthene	206440	µg l-¹	U	6.8
	Pyrene	129000	µg l-¹	U	6.6
	Benzo[a]anthracene	56553	µg l-¹	U	3.6
	Chrysene	218019	µg l-¹	U	4.2
	Benzo[b]fluoranthene	205992	µg l-¹	U	4
	Benzo[k]fluoranthene	207089	µg l-¹	U	2

All tests undertaken between 21/01/2013 and 11/02/2013

* Accreditation status

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AMENDED LABORATORY TEST REPORT

Results of analysis of 1 sample
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					220709
					AI17239
					CSLT-15-73
					PDZ15
					17/1/2013
					0.2m
					LEACHATE
1700	Benzo[a]pyrene	50328	µg l-¹	U	4
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	0.2
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	2.5
	Benzo[g,h,]perylene	191242	µg l-¹	U	2.8
	Total (of 16) PAHs		µg l-¹	U	43
1920	Phenols (total)		mg l-¹	N	< 0.03

All tests undertaken between 21/01/2013 and 11/02/2013

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

Login Batch No						**220709**		
Chemtest LIMS ID						AI17236	AI17237	AI17238
Sample ID						CSLT-15-69	CSLT-15-72	CSLT-15-73
Sample No						PDZ15	PDZ15	PDZ15
Sampling Date						17/1/2013	17/1/2013	17/1/2013
Depth						0.2m	0.2m	0.2m
Matrix						*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
2300	Cyanide (free)	57125	mg kg-¹	M		< 0.5	< 0.5	< 0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N		<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M		8.5	12	10
	Cadmium	7440439	mg kg-¹	M		0.11	<0.10	<0.10
	Mercury	7439976	mg kg-¹	M		0.23	0.56	0.56
	Nickel	7440020	mg kg-¹	M		16	17	16
	Lead	7439921	mg kg-¹	M		93	170	130
	Selenium	7782492	mg kg-¹	M		<0.20	0.51	0.41
2675	TPH aliphatic >C5-C6		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M		< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M		< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M		< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M		< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N		< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M		< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M		< 1	1.7	< 1
	TPH aromatic >C16-C21		mg kg-¹	M		< 1	3.7	< 1
	TPH aromatic >C21-C35		mg kg-¹	M		< 1	7.5	< 1
	TPH aromatic >C35-C44		mg kg-¹	N		< 1	< 1	< 1

All tests undertaken between 21/01/2013 and 11/02/2013

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10	13	< 10
2700	Naphthalene	91203	mg kg-¹	M	1.5	1.9	2.2
	Acenaphthylene	208968	mg kg-¹	M	< 0.1	0.36	0.33
	Acenaphthene	83329	mg kg-¹	M	0.4	0.59	0.66
	Fluorene	86737	mg kg-¹	M	0.33	0.62	0.32
	Phenanthrene	85018	mg kg-¹	M	0.86	2.6	2
	Anthracene	120127	mg kg-¹	M	0.46	0.93	0.66
	Fluoranthene	206440	mg kg-¹	M	1.6	4.1	2.7
	Pyrene	129000	mg kg-¹	M	1.4	3.4	2.6
	Benzo[a]anthracene	56553	mg kg-¹	M	0.88	1.9	1.4
	Chrysene	218019	mg kg-¹	M	0.78	1.9	1.7
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.78	2.1	1.8
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.75	1.6	1.1
	Benzo[a]pyrene	50328	mg kg-¹	M	0.77	1.9	1.6
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.2	0.63	0.53
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.71	1.7	1.6
	Benzo[g,h,]perylene	191242	mg kg-¹	M	< 0.1	1.2	0.87
	Total (of 16) PAHs		mg kg-¹	M	11	27	22
2760	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0

All tests undertaken between 21/01/2013 and 11/02/2013

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2760	Dichloromethane	75092	µg kg-¹	N	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0

All tests undertaken between 21/01/2013 and 11/02/2013

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2760	Ethylbenzene	100414	µg kg-¹	M	4.3	2.2	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	4.4	1.8	< 1.0
	o-Xylene	95476	µg kg-¹	U	2.1	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0
2790	Phenol	108952	mg kg-¹	N	< 0.5	< 0.5	< 0.5

All tests undertaken between 21/01/2013 and 11/02/2013

* Accreditation status

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2790	bis(2-Chloroethyl)ether	111444	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Chlorophenol	95578	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	1,3-Dichlorobenzene	541731	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	1,4-Dichlorobenzene	106467	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	1,2-Dichlorobenzene	95501	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Methylphenol	95487	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	bis(2-Chloroisopropyl)ether	108601	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Methylphenol	106445	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	N-Nitrosodi-n-propylamine	621647	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Hexachloroethane	67721	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Nitrobenzene	98953	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Isophorone	78591	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Nitrophenol	88755	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4-Dimethylphenol	105679	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethoxy)methane	111911	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4-Dichlorophenol	120832	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	1,2,4-Trichlorobenzene	120821	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Naphthalene	91203	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Chloroaniline	106478	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Hexachlorobutadiene	87683	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Chloro-3-methylphenol	59507	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Methylnaphthalene	91576	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Hexachlorocyclopentadiene	77474	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4,6-Trichlorophenol	88062	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4,5-Trichlorophenol	95954	mg kg-¹	N	< 0.5	< 0.5	< 0.5

All tests undertaken between 21/01/2013 and 11/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 February 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2790	2-Chloronaphthalene	91587	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Nitroaniline	88744	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Dimethylphthalate	131113	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,6-Dinitrotoluene	606202	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Acenaphthylene	208968	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	3-Nitroaniline	99092	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Acenaphthene	83329	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Dibenzofuran	132649	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4-Dinitrotoluene	121142	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Diethylphthalate	84662	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Fluorene	86737	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Chlorophenylphenylether	7005723	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Nitroaniline	100016	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2-Methyl-4,6-dinitrophenol	534521	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Azobenzene	103333	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Bromophenylphenylether	101553	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Hexachlorobenzene	118741	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Pentachlorophenol	87865	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Phenanthrene	85018	mg kg-¹	N	< 0.5	0.69	< 0.5
	Anthracene	120127	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Carbazole	86748	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Di-n-butylphthalate	84742	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Fluoranthene	206440	mg kg-¹	N	0.64	2.4	0.66
	Pyrene	129000	mg kg-¹	N	0.60	1.8	0.65
	Butylbenzylphthalate	85687	mg kg-¹	N	< 0.5	< 0.5	< 0.5

All tests undertaken between 21/01/2013 and 11/02/2013

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 21 January 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 February 2013

					220709		
					AI17236	AI17237	AI17238
					CSLT-15-69	CSLT-15-72	CSLT-15-73
					PDZ15	PDZ15	PDZ15
					17/1/2013	17/1/2013	17/1/2013
					0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*
2790	Benzo[a]anthracene	56553	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Chrysene	218019	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	bis(2-Ethylhexyl)phthalate	117817	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Di-n-octylphthalate	117840	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Benzo[b]fluoranthene	205992	mg kg-¹	N	< 0.5	0.87	< 0.5
	Benzo[k]fluoranthene	207089	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Benzo[a]pyrene	50328	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Dibenzo[a,h]anthracene	53703	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	Benzo[g,h,]perylene	191242	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	2,4-Dinitrophenol	51285	mg kg-¹	N	< 0.5	< 0.5	< 0.5
	4-Nitrophenol	100027	mg kg-¹	N	< 0.5	< 0.5	< 0.5
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3

All tests undertaken between 21/01/2013 and 11/02/2013

* Accreditation status

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BAM Nuttall Ltd
St James House
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GU15 3XW

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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 3 samples
received 21 January 2013
35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest

Report Date
29 January 2013

Login Batch No: 220709

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI17236	PDZ15	CSLT-15-69	0.2	-	No Asbestos Detected
AI17237	PDZ15	CSLT-15-72	0.2	-	No Asbestos Detected
AI17238	PDZ15	CSLT-15-73	0.2	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
Chemtest ID	Sample ID	Sample Desc		
AI17236	PDZ15	CSLT-15-69	<0.001	-
AI17237	PDZ15	CSLT-15-72	<0.001	-
AI17238	PDZ15	CSLT-15-73	<0.001	-

The detection limit for this method is 0.001%

Signed

[redacted]

All tests undertaken between 29-Jan-2013 and 29-Jan-2013

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Knoll Road
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LABORATORY TEST REPORT

Results of analysis of 2 samples
received 6 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford

Report Date
20 February 2013

Login Batch No						**222026**	
Chemtest LIMS ID						AI25481	AI25482
Sample ID						CSLT-15-20	CSLT-15-47
Sample No						PDZ15	PDZ15
Sampling Date						5/2/2013	5/2/2013
Depth						0.2m	0.2m
Matrix						*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U		0.18	0.09
1300	Cyanide (free)	57125	mg l-¹	U		< 0.05	< 0.05
1220	Sulfate	14808798	mg l-¹	U		68	91
1450	Arsenic	7440382	µg l-¹	U		19	6.3
	Cadmium	7440439	µg l-¹	U		0.70	<0.080
	Copper	7440508	µg l-¹	U		7.4	3.2
	Mercury	7439976	µg l-¹	U		<0.50	<0.50
	Nickel	7440020	µg l-¹	U		5.4	4.6
	Lead	7439921	µg l-¹	U		1.2	<1.0
	Selenium	7782492	µg l-¹	U		5.1	1.8
	Zinc	7440666	µg l-¹	U		10	8.0
1490	Chromium (hexavalent)	18540299	µg l-¹	U		<20	<20
1700	Naphthalene	91203	µg l-¹	U		<0.1	<0.1
	Acenaphthylene	208968	µg l-¹	U		<0.1	<0.1
	Acenaphthene	83329	µg l-¹	U		<0.1	<0.1
	Fluorene	86737	µg l-¹	U		<0.1	<0.1
	Phenanthrene	85018	µg l-¹	U		1.2	<0.1
	Anthracene	120127	µg l-¹	U		0.4	<0.1
	Fluoranthene	206440	µg l-¹	U		2.8	<0.1
	Pyrene	129000	µg l-¹	U		4.7	<0.1
	Benzo[a]anthracene	56553	µg l-¹	U		<0.1	<0.1
	Chrysene	218019	µg l-¹	U		<0.1	<0.1
	Benzo[b]fluoranthene	205992	µg l-¹	U		<0.1	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	U		<0.1	<0.1

All tests undertaken between 30/12/1899 and 15/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 2 samples
received 6 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford

Chemtest
The right chemistry to deliver results

Report Date
20 February 2013

					222026	
					AI25481	AI25482
					CSLT-15-20	CSLT-15-47
					PDZ15	PDZ15
					5/2/2013	5/2/2013
					0.2m	0.2m
					LEACHATE	*LEACHATE*
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1	<0.1
	Total (of 16) PAHs		µg l-¹	U	9.1	<2
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03

All tests undertaken between 30/12/1899 and 15/02/2013

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GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 12 samples
received 6 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford

Chemtest
The right chemistry to deliver results

Report Date
20 February 2013

Login Batch No					222026					
Chemtest LIMS ID					AI25471	AI25472	AI25473	AI25474	AI25475	AI25476
Sample ID					CSLT-15-78	CSLT-15-76	CSLT-15-77	CSLT-15-16	CSLT-15-20	CSLT-15-17
Sample No					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
Sampling Date					5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013
Depth					0.2m	0.2m	0.2m	0.2m	0.2m	0.2m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	6.4	6.8	6.7	7.3	8.1	11
	Cadmium	7440439	mg kg-¹	M	0.11	<0.10	0.14	0.56	0.16	0.19
	Mercury	7439976	mg kg-¹	M	0.38	0.35	0.45	0.33	0.35	0.36
	Nickel	7440020	mg kg-¹	M	16	15	16	18	18	19
	Lead	7439921	mg kg-¹	M	130	150	150	140	150	170
	Selenium	7782492	mg kg-¹	M	<0.20	0.27	<0.20	<0.20	0.24	0.30
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	1.3	< 1	< 1	< 1	< 1	1.1
	TPH aromatic >C16-C21		mg kg-¹	M	3.7	< 1	< 1	< 1	< 1	3.5
	TPH aromatic >C21-C35		mg kg-¹	M	6.4	< 1	< 1	< 1	< 1	11
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1

All tests undertaken between 30/12/1899 and 15/02/2013

* Accreditation status

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BAM Nuttall Ltd
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GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 12 samples
received 6 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford

Chemtest
The right chemistry to deliver results

Report Date
20 February 2013

Login Batch No					**222026**			
Chemtest LIMS ID					AI25477	AI25478	AI25479	AI25480
Sample ID					CSLT-15-19	CSLT-15-18	CSLT-15-47	CSLT-15-46
Sample No					PDZ15	PDZ15	PDZ15	PDZ15
Sampling Date					5/2/2013	5/2/2013	5/2/2013	5/2/2013
Depth					0.2m	0.2m	0.2m	0.2m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	8.5	6.8	9.7	15
	Cadmium	7440439	mg kg-¹	M	0.17	0.12	0.13	0.13
	Mercury	7439976	mg kg-¹	M	0.31	0.32	0.37	0.48
	Nickel	7440020	mg kg-¹	M	17	14	18	20
	Lead	7439921	mg kg-¹	M	130	130	230	660
	Selenium	7782492	mg kg-¹	M	<0.20	0.72	0.46	0.45
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1
	TPH aromatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1

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LABORATORY TEST REPORT

Results of analysis of 12 samples
received 6 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford

Report Date
20 February 2013

					222026					
					AI25471	AI25472	AI25473	AI25474	AI25475	AI25476
					CSLT-15-78	CSLT-15-76	CSLT-15-77	CSLT-15-16	CSLT-15-20	CSLT-15-17
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	11	< 10	< 10	< 10	< 10	16
2700	Naphthalene	91203	mg kg-¹	M	0.13	0.15	< 0.1	< 0.1	< 0.1	0.28
	Acenaphthylene	208968	mg kg-¹	M	0.3	0.35	0.26	0.26	0.2	0.28
	Acenaphthene	83329	mg kg-¹	M	0.19	0.57	0.21	0.13	0.13	0.38
	Fluorene	86737	mg kg-¹	M	0.25	0.51	0.25	0.12	0.11	0.24
	Phenanthrene	85018	mg kg-¹	M	1.1	3	0.98	0.97	0.82	1.3
	Anthracene	120127	mg kg-¹	M	0.49	1	0.54	0.58	0.45	0.51
	Fluoranthene	206440	mg kg-¹	M	1.6	3.4	1.7	1.8	1.6	1.7
	Pyrene	129000	mg kg-¹	M	1.6	2.4	1.7	1.8	1.3	1.4
	Benzo[a]anthracene	56553	mg kg-¹	M	0.66	1.3	0.82	0.95	0.88	0.68
	Chrysene	218019	mg kg-¹	M	0.81	1.5	0.94	1.1	0.91	0.82
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.73	1.9	0.98	0.87	1	1.2
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.58	1.1	0.83	0.36	1	1.1
	Benzo[a]pyrene	50328	mg kg-¹	M	0.73	1.6	0.88	0.99	1.1	1
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.17	0.64	0.15	0.26	0.22	0.27
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.57	1	0.63	0.61	0.65	0.54
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.44	0.79	0.53	0.43	0.35	0.4
	Total (of 16) PAHs		mg kg-¹	M	10	21	11	11	11	12
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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The right chemistry to deliver results

Report Date
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					222026			
					AI25477	AI25478	AI25479	AI25480
					CSLT-15-19	CSLT-15-18	CSLT-15-47	CSLT-15-46
					PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10	< 10	< 10	< 10
2700	Naphthalene	91203	mg kg-¹	M	0.21	0.16	0.29	0.19
	Acenaphthylene	208968	mg kg-¹	M	0.23	0.4	0.19	0.26
	Acenaphthene	83329	mg kg-¹	M	0.16	0.35	0.35	0.31
	Fluorene	86737	mg kg-¹	M	0.11	0.23	0.19	0.14
	Phenanthrene	85018	mg kg-¹	M	0.61	0.81	1.3	0.77
	Anthracene	120127	mg kg-¹	M	0.39	0.42	0.5	0.46
	Fluoranthene	206440	mg kg-¹	M	1	1.3	2.1	1.5
	Pyrene	129000	mg kg-¹	M	1.1	1.2	1.8	1.3
	Benzo[a]anthracene	56553	mg kg-¹	M	0.54	0.67	0.99	0.7
	Chrysene	218019	mg kg-¹	M	0.64	0.7	1.1	0.86
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.59	0.55	0.86	0.73
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.48	0.69	0.72	0.74
	Benzo[a]pyrene	50328	mg kg-¹	M	0.57	0.67	0.9	0.8
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	< 0.1	0.16	0.23	0.19
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.33	0.43	0.43	0.57
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.19	0.39	0.22	0.51
	Total (of 16) PAHs		mg kg-¹	M	7.2	9.1	12	10
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0

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					222026					
					AI25471	AI25472	AI25473	AI25474	AI25475	AI25476
					CSLT-15-78	CSLT-15-76	CSLT-15-77	CSLT-15-16	CSLT-15-20	CSLT-15-17
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	<100	<100	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 30/12/1899 and 15/02/2013

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					CSLT-15-19	CSLT-15-18	CSLT-15-47	CSLT-15-46
					PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	<100	<100	<100	<100
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0

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					CSLT-15-78	CSLT-15-76	CSLT-15-77	CSLT-15-16	CSLT-15-20	CSLT-15-17
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg⁻¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg⁻¹	M	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg⁻¹	U	< 1.0	4.6	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg⁻¹	U	< 1.0	3.6	1.5	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg⁻¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg⁻¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg⁻¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg⁻¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg⁻¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg⁻¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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					PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0

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					CSLT-15-78	CSLT-15-76	CSLT-15-77	CSLT-15-16	CSLT-15-20	CSLT-15-17
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2790	Phenol	108952	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethyl)ether	111444	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Chlorophenol	95578	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,3-Dichlorobenzene	541731	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,4-Dichlorobenzene	106467	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,2-Dichlorobenzene	95501	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methylphenol	95487	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroisopropyl)ether	108601	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Methylphenol	106445	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	N-Nitrosodi-n-propylamine	621647	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachloroethane	67721	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Nitrobenzene	98953	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Isophorone	78591	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Nitrophenol	88755	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dimethylphenol	105679	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethoxy)methane	111911	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dichlorophenol	120832	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,2,4-Trichlorobenzene	120821	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Naphthalene	91203	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chloroaniline	106478	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorobutadiene	87683	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chloro-3-methylphenol	59507	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methylnaphthalene	91576	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorocyclopentadiene	77474	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4,6-Trichlorophenol	88062	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

All tests undertaken between 30/12/1899 and 15/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 12 samples
received 6 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford

Chemtest
The right chemistry to deliver results

Report Date
20 February 2013

					222026			
					AI25477	AI25478	AI25479	AI25480
					CSLT-15-19	CSLT-15-18	CSLT-15-47	CSLT-15-46
					PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*
2790	Phenol	108952	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethyl)ether	111444	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	2-Chlorophenol	95578	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	1,3-Dichlorobenzene	541731	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	1,4-Dichlorobenzene	106467	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	1,2-Dichlorobenzene	95501	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methylphenol	95487	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroisopropyl)ether	108601	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	4-Methylphenol	106445	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	N-Nitrosodi-n-propylamine	621647	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachloroethane	67721	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	Nitrobenzene	98953	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	Isophorone	78591	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	2-Nitrophenol	88755	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dimethylphenol	105679	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethoxy)methane	111911	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dichlorophenol	120832	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	1,2,4-Trichlorobenzene	120821	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	Naphthalene	91203	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chloroaniline	106478	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorobutadiene	87683	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chloro-3-methylphenol	59507	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methylnaphthalene	91576	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorocyclopentadiene	77474	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5
	2,4,6-Trichlorophenol	88062	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5

BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 12 samples
received 6 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford

Chemtest
The right chemistry to deliver results

Report Date
20 February 2013

					222026					
					AI25471	AI25472	AI25473	AI25474	AI25475	AI25476
					CSLT-15-78	CSLT-15-76	CSLT-15-77	CSLT-15-16	CSLT-15-20	CSLT-15-17
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2790	2,4,5-Trichlorophenol	95954	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Chloronaphthalene	91587	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Nitroaniline	88744	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Dimethylphthalate	131113	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,6-Dinitrotoluene	606202	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Acenaphthylene	208968	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3-Nitroaniline	99092	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Acenaphthene	83329	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Dibenzofuran	132649	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dinitrotoluene	121142	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Diethylphthalate	84662	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Fluorene	86737	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chlorophenylphenylether	7005723	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Nitroaniline	100016	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methyl-4,6-dinitrophenol	534521	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Azobenzene	103333	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Bromophenylphenylether	101553	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorobenzene	118741	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Pentachlorophenol	87865	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Phenanthrene	85018	mg kg-¹	N	< 0.5	< 0.5	2.8	< 0.5	< 0.5	< 0.5
	Anthracene	120127	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Carbazole	86748	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Di-n-butylphthalate	84742	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Fluoranthene	206440	mg kg-¹	N	< 0.5	< 0.5	1.9	< 0.5	< 0.5	0.71
	Pyrene	129000	mg kg-¹	N	< 0.5	< 0.5	4.4	< 0.5	< 0.5	0.74

All tests undertaken between 30/12/1899 and 15/02/2013

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 12 samples
received 6 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford

Chemtest
The right chemistry to deliver results

Report Date
20 February 2013

					222026			
					AI25477	AI25478	AI25479	AI25480
					CSLT-15-19	CSLT-15-18	CSLT-15-47	CSLT-15-46
					PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*
2790	2,4,5-Trichlorophenol	95954	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	2-Chloronaphthalene	91587	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	2-Nitroaniline	88744	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Dimethylphthalate	131113	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	2,6-Dinitrotoluene	606202	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Acenaphthylene	208968	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	3-Nitroaniline	99092	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Acenaphthene	83329	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Dibenzofuran	132649	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dinitrotoluene	121142	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Diethylphthalate	84662	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Fluorene	86737	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chlorophenylphenylether	7005723	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	4-Nitroaniline	100016	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methyl-4,6-dinitrophenol	534521	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Azobenzene	103333	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	4-Bromophenylphenylether	101553	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorobenzene	118741	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Pentachlorophenol	87865	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Phenanthrene	85018	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Anthracene	120127	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Carbazole	86748	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Di-n-butylphthalate	84742	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Fluoranthene	206440	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Pyrene	129000	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5

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LABORATORY TEST REPORT

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Report Date
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					222026					
					AI25471	AI25472	AI25473	AI25474	AI25475	AI25476
					CSLT-15-78	CSLT-15-76	CSLT-15-77	CSLT-15-16	CSLT-15-20	CSLT-15-17
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2790	Butylbenzylphthalate	85687	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[a]anthracene	56553	mg kg-¹	N	< 0.5	< 0.5	0.93	< 0.5	< 0.5	< 0.5
	Chrysene	218019	mg kg-¹	N	< 0.5	< 0.5	0.60	< 0.5	< 0.5	< 0.5
	bis(2-Ethylhexyl)phthalate	117817	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Di-n-octylphthalate	117840	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[b]fluoranthene	205992	mg kg-¹	N	< 0.5	< 0.5	0.62	< 0.5	< 0.5	< 0.5
	Benzo[k]fluoranthene	207089	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[a]pyrene	50328	mg kg-¹	N	< 0.5	< 0.5	0.73	< 0.5	< 0.5	< 0.5
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Dibenzo[a,h]anthracene	53703	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[g,h,]perylene	191242	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dinitrophenol	51285	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Nitrophenol	100027	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

All tests undertaken between 30/12/1899 and 15/02/2013

* Accreditation status

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BAM Nuttall Ltd
St James House
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GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 12 samples
received 6 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford

Chemtest
The right chemistry to deliver results

Report Date
20 February 2013

					222026			
					AI25477	AI25478	AI25479	AI25480
					CSLT-15-19	CSLT-15-18	CSLT-15-47	CSLT-15-46
					PDZ15	PDZ15	PDZ15	PDZ15
					5/2/2013	5/2/2013	5/2/2013	5/2/2013
					0.2m	0.2m	0.2m	0.2m
					SOIL	*SOIL*	*SOIL*	*SOIL*
2790	Butylbenzylphthalate	85687	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[a]anthracene	56553	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Chrysene	218019	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Ethylhexyl)phthalate	117817	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Di-n-octylphthalate	117840	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[b]fluoranthene	205992	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[k]fluoranthene	207089	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[a]pyrene	50328	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Dibenzo[a,h]anthracene	53703	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[g,h,]perylene	191242	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dinitrophenol	51285	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
	4-Nitrophenol	100027	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3

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St James House
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Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 10 samples
received 6 February 2013
35875-002 - QEOP-CS - Queen Elizabeth Olympic Park, Stratford

Report Date
21 February 2013

Login Batch No: 222026

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI25471	PDZ15	CSLT-15-78	0.2	-	No Asbestos Detected
AI25472	PDZ15	CSLT-15-76	0.2	-	No Asbestos Detected
AI25473	PDZ15	CSLT-15-77	0.2	-	No Asbestos Detected
AI25474	PDZ15	CSLT-15-16	0.2	-	No Asbestos Detected
AI25475	PDZ15	CSLT-15-20	0.2	-	No Asbestos Detected
AI25476	PDZ15	CSLT-15-17	0.2	-	No Asbestos Detected
AI25477	PDZ15	CSLT-15-19	0.2	-	No Asbestos Detected
AI25478	PDZ15	CSLT-15-18	0.2	-	No Asbestos Detected
AI25479	PDZ15	CSLT-15-47	0.2	-	No Asbestos Detected
AI25480	PDZ15	CSLT-15-46	0.2	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
Chemtest ID	Sample ID	Sample Desc		
AI25471	PDZ15	CSLT-15-78	<0.001	-
AI25472	PDZ15	CSLT-15-76	<0.001	-
AI25473	PDZ15	CSLT-15-77	<0.001	-
AI25474	PDZ15	CSLT-15-16	<0.001	-
AI25475	PDZ15	CSLT-15-20	<0.001	-
AI25476	PDZ15	CSLT-15-17	<0.001	-
AI25477	PDZ15	CSLT-15-19	<0.001	-
AI25478	PDZ15	CSLT-15-18	<0.001	-
AI25479	PDZ15	CSLT-15-47	<0.001	-
AI25480	PDZ15	CSLT-15-46	<0.001	-

The detection limit for this method is 0.001%

[redacted]

All tests undertaken between 21-Feb-2013 and 21-Feb-2013

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 3 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

						223643		
Login Batch No								
Chemtest LIMS ID						AI29309	AI29310	AI29311
Sample ID						CSLT-15-53	CSLT-15-81	CSLT-15-48
Sample No						PDZ15	PDZ15	PDZ15
Sampling Date						12/2/2013	12/2/2013	12/2/2013
Depth						0.20m	0.20m	0.20m
Matrix						*LEACHATE*	*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U		0.07	0.10	0.16
1300	Cyanide (free)	57125	mg l-¹	U		< 0.05	< 0.05	< 0.05
1220	Sulfate	14808798	mg l-¹	U		61	60	62
1450	Arsenic	7440382	µg l-¹	U		5.8	8.9	6.2
	Cadmium	7440439	µg l-¹	U		<0.080	<0.080	<0.080
	Copper	7440508	µg l-¹	U		3.7	5.4	6.3
	Mercury	7439976	µg l-¹	U		<0.50	<0.50	<0.50
	Nickel	7440020	µg l-¹	U		1.9	2.1	2.0
	Lead	7439921	µg l-¹	U		<1.0	<1.0	<1.0
	Selenium	7782492	µg l-¹	U		1.4	2.0	1.2
	Zinc	7440666	µg l-¹	U		1.5	3.3	1.4
1490	Chromium (hexavalent)	18540299	µg l-¹	U		<20	<20	<20
1700	Naphthalene	91203	µg l-¹	U		<0.1	<0.1	<0.1
	Acenaphthylene	208968	µg l-¹	U		<0.1	1.3	<0.1
	Acenaphthene	83329	µg l-¹	U		<0.1	0.1	<0.1
	Fluorene	86737	µg l-¹	U		<0.1	1	<0.1
	Phenanthrene	85018	µg l-¹	U		<0.1	2.8	<0.1
	Anthracene	120127	µg l-¹	U		<0.1	0.6	<0.1
	Fluoranthene	206440	µg l-¹	U		<0.1	4	0.7
	Pyrene	129000	µg l-¹	U		<0.1	4.1	0.8
	Benzo[a]anthracene	56553	µg l-¹	U		<0.1	2.6	<0.1
	Chrysene	218019	µg l-¹	U		<0.1	2.1	<0.1
	Benzo[b]fluoranthene	205992	µg l-¹	U		<0.1	2.1	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	U		<0.1	2.4	<0.1

All tests undertaken between 14/02/2013 and 21/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 3 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
21 February 2013

					223643		
					AI29309	AI29310	AI29311
					CSLT-15-53	CSLT-15-81	CSLT-15-48
					PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m
					LEACHATE	*LEACHATE*	*LEACHATE*
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1	1.4	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1	0.4	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1	1.3	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1	0.9	<0.1
	Total (of 16) PAHs		µg l-¹	U	<2	27	<2
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03	< 0.03

All tests undertaken between 14/02/2013 and 21/02/2013

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 16 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

Login Batch No					223643					
Chemtest LIMS ID					AI29296	AI29297	AI29298	AI29299	AI29300	AI29301
Sample ID					CSLT-15-51	CSLT-15-52	CSLT-15-53	CSLT-15-54	CSLT-15-55	CSLT-15-80
Sample No					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
Sampling Date					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
Depth					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	16	14	12	11	14	8.8
	Cadmium	7440439	mg kg-¹	M	0.60	0.16	0.16	0.11	0.19	<0.10
	Mercury	7439976	mg kg-¹	M	0.38	0.36	0.41	0.36	0.54	0.21
	Nickel	7440020	mg kg-¹	M	22	16	18	16	21	13
	Lead	7439921	mg kg-¹	M	2100	290	160	150	190	87
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	<0.20	0.63	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	5.6
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	14
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	4.1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	3.5
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	5.4
	TPH aromatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	2.8
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1

All tests undertaken between 14/02/2013 and 21/02/2013

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 16 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

Login Batch No					**223643**						
Chemtest LIMS ID					AI29302	AI29303	AI29304	AI29305	AI29306	AI29307
Sample ID					CSLT-15-81	CSLT-15-79	CSLT-15-50	CSLT-15-70	CSLT-15-75	CSLT-15-48
Sample No					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
Sampling Date					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
Depth					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	12	12	10	13	13	13
	Cadmium	7440439	mg kg-¹	M	0.13	0.18	0.16	0.17	0.16	0.17
	Mercury	7439976	mg kg-¹	M	0.31	0.46	0.38	0.46	0.47	0.42
	Nickel	7440020	mg kg-¹	M	17	19	16	19	17	18
	Lead	7439921	mg kg-¹	M	130	220	130	130	160	160
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	0.29	<0.20	0.23
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
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GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 16 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

Login Batch No					**223643**
Chemtest LIMS ID					AI29308
Sample ID					CSLT-15-49
Sample No					PDZ15
Sampling Date					12/2/2013
Depth					0.20m
Matrix					*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
2300	Cyanide (free)	57125	mg kg-¹	M	< 0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5
2450	Arsenic	7440382	mg kg-¹	M	27
	Cadmium	7440439	mg kg-¹	M	0.22
	Mercury	7439976	mg kg-¹	M	0.43
	Nickel	7440020	mg kg-¹	M	18
	Lead	7439921	mg kg-¹	M	150
	Selenium	7782492	mg kg-¹	M	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1
	TPH aromatic >C21-C35		mg kg-¹	M	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1

* Accreditation status

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St James House
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LABORATORY TEST REPORT

Results of analysis of 16 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

					223643					
					AI29296	AI29297	AI29298	AI29299	AI29300	AI29301
					CSLT-15-51	CSLT-15-52	CSLT-15-53	CSLT-15-54	CSLT-15-55	CSLT-15-80
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10	< 10	< 10	< 10	< 10	36
2700	Naphthalene	91203	mg kg-¹	M	0.14	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-¹	M	0.18	< 0.1	0.19	0.27	0.13	0.15
	Acenaphthene	83329	mg kg-¹	M	0.23	0.26	0.28	0.19	0.16	0.23
	Fluorene	86737	mg kg-¹	M	0.11	0.41	0.19	0.16	0.14	0.12
	Phenanthrene	85018	mg kg-¹	M	0.82	1.3	1.3	0.72	0.75	0.55
	Anthracene	120127	mg kg-¹	M	0.36	0.51	0.4	0.38	0.26	0.26
	Fluoranthene	206440	mg kg-¹	M	1.5	2.9	2.7	1.1	1.1	0.87
	Pyrene	129000	mg kg-¹	M	1.1	2	2	0.78	0.74	0.73
	Benzo[a]anthracene	56553	mg kg-¹	M	0.73	1.2	1.2	0.58	0.52	0.53
	Chrysene	218019	mg kg-¹	M	0.81	1.3	1.4	0.64	0.57	0.49
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.86	1.3	1.4	1.1	0.81	0.52
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.53	0.99	1.2	0.41	0.7	0.37
	Benzo[a]pyrene	50328	mg kg-¹	M	0.79	1.1	1.3	0.61	0.73	0.42
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.29	0.33	0.53	0.31	0.46	0.11
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.52	0.93	0.87	0.47	0.76	0.4
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.65	0.68	0.81	0.33	0.32	0.37
	Total (of 16) PAHs		mg kg-¹	M	9.6	15	16	8.1	8.2	6.1
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 14/02/2013 and 21/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 16 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

					223643					
					AI29302	AI29303	AI29304	AI29305	AI29306	AI29307
					CSLT-15-81	CSLT-15-79	CSLT-15-50	CSLT-15-70	CSLT-15-75	CSLT-15-48
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-1	N	< 10	< 10	< 10	< 10	< 10	< 10
2700	Naphthalene	91203	mg kg-1	M	< 0.1	0.27	< 0.1	0.3	0.5	< 0.1
	Acenaphthylene	208968	mg kg-1	M	0.12	0.13	0.14	0.13	0.23	0.24
	Acenaphthene	83329	mg kg-1	M	0.19	0.35	0.26	0.25	0.26	0.32
	Fluorene	86737	mg kg-1	M	0.13	0.25	0.25	0.28	0.3	0.5
	Phenanthrene	85018	mg kg-1	M	0.66	1.7	1.3	1	0.88	1.6
	Anthracene	120127	mg kg-1	M	0.31	0.52	0.44	0.37	0.39	0.71
	Fluoranthene	206440	mg kg-1	M	1.3	2.3	2	1.7	1.5	2.6
	Pyrene	129000	mg kg-1	M	1.1	2.1	1.4	1.4	2.3	2.4
	Benzo[a]anthracene	56553	mg kg-1	M	0.72	1.1	0.94	0.71	0.75	1.3
	Chrysene	218019	mg kg-1	M	0.79	1.2	0.96	0.72	0.77	1.4
	Benzo[b]fluoranthene	205992	mg kg-1	M	0.72	1.4	0.99	0.97	0.92	1.2
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.67	0.9	0.56	0.47	0.76	0.89
	Benzo[a]pyrene	50328	mg kg-1	M	0.72	1.6	0.84	0.78	0.82	1.2
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	< 0.1	0.32	0.42	< 0.1	0.17	0.11
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	0.41	1.3	0.56	0.5	0.69	0.88
	Benzo[g,h,]perylene	191242	mg kg-1	M	0.4	0.44	0.82	0.81	0.71	0.44
	Total (of 16) PAHs		mg kg-1	M	8.2	16	12	10	12	16
2760	Methyl tert-butylether	1634044	µg kg-1	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

BAM Nuttall Ltd
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Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 16 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

					223643
					AI29308
					CSLT-15-49
					PDZ15
					12/2/2013
					0.20m
					SOIL
2675	Total Petroleum Hydrocarbons		mg kg-1	N	< 10
2700	Naphthalene	91203	mg kg-1	M	0.13
	Acenaphthylene	208968	mg kg-1	M	< 0.1
	Acenaphthene	83329	mg kg-1	M	0.23
	Fluorene	86737	mg kg-1	M	0.21
	Phenanthrene	85018	mg kg-1	M	0.7
	Anthracene	120127	mg kg-1	M	0.39
	Fluoranthene	206440	mg kg-1	M	1.4
	Pyrene	129000	mg kg-1	M	1.3
	Benzo[a]anthracene	56553	mg kg-1	M	0.66
	Chrysene	218019	mg kg-1	M	0.65
	Benzo[b]fluoranthene	205992	mg kg-1	M	0.7
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.54
	Benzo[a]pyrene	50328	mg kg-1	M	0.76
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	0.58
	Benzo[g,h,]perylene	191242	mg kg-1	M	0.51
	Total (of 16) PAHs		mg kg-1	M	8.8
2760	Methyl tert-butylether	1634044	µg kg-1	N	< 1.0
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0

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LABORATORY TEST REPORT

Results of analysis of 16 samples
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Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

					223643					
					AI29296	AI29297	AI29298	AI29299	AI29300	AI29301
					CSLT-15-51	CSLT-15-52	CSLT-15-53	CSLT-15-54	CSLT-15-55	CSLT-15-80
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 14/02/2013 and 21/02/2013

* Accreditation status

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BAM Nuttall Ltd
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GU15 3XW

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LABORATORY TEST REPORT

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received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

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The right chemistry to deliver results

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21 February 2013

					223643					
					AI29302	AI29303	AI29304	AI29305	AI29306	AI29307
					CSLT-15-81	CSLT-15-79	CSLT-15-50	CSLT-15-70	CSLT-15-75	CSLT-15-48
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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LABORATORY TEST REPORT

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35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

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21 February 2013

					223643
					AI29308
					CSLT-15-49
					PDZ15
					12/2/2013
					0.20m
					SOIL
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10
	Toluene	108883	µg kg-¹	M	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0

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					AI29296	AI29297	AI29298	AI29299	AI29300	AI29301
					CSLT-15-51	CSLT-15-52	CSLT-15-53	CSLT-15-54	CSLT-15-55	CSLT-15-80
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 14/02/2013 and 21/02/2013

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					223643					
					AI29302	AI29303	AI29304	AI29305	AI29306	AI29307
					CSLT-15-81	CSLT-15-79	CSLT-15-50	CSLT-15-70	CSLT-15-75	CSLT-15-48
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	2.9	< 1.0	< 1.0	3.1
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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					223643
					AI29308
					CSLT-15-49
					PDZ15
					12/2/2013
					0.20m
					SOIL
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0

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21 February 2013

					223643					
					AI29296	AI29297	AI29298	AI29299	AI29300	AI29301
					CSLT-15-51	CSLT-15-52	CSLT-15-53	CSLT-15-54	CSLT-15-55	CSLT-15-80
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2790	Phenol	108952	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethyl)ether	111444	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Chlorophenol	95578	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,3-Dichlorobenzene	541731	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,4-Dichlorobenzene	106467	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,2-Dichlorobenzene	95501	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methylphenol	95487	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroisopropyl)ether	108601	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Methylphenol	106445	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	N-Nitrosodi-n-propylamine	621647	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachloroethane	67721	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Nitrobenzene	98953	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Isophorone	78591	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Nitrophenol	88755	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dimethylphenol	105679	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethoxy)methane	111911	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dichlorophenol	120832	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,2,4-Trichlorobenzene	120821	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Naphthalene	91203	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chloroaniline	106478	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorobutadiene	87683	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chloro-3-methylphenol	59507	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methylnaphthalene	91576	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorocyclopentadiene	77474	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4,6-Trichlorophenol	88062	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

All tests undertaken between 14/02/2013 and 21/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 16 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

					223643					
					AI29302	AI29303	AI29304	AI29305	AI29306	AI29307
					CSLT-15-81	CSLT-15-79	CSLT-15-50	CSLT-15-70	CSLT-15-75	CSLT-15-48
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2790	Phenol	108952	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethyl)ether	111444	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Chlorophenol	95578	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,3-Dichlorobenzene	541731	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,4-Dichlorobenzene	106467	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,2-Dichlorobenzene	95501	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methylphenol	95487	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroisopropyl)ether	108601	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Methylphenol	106445	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	N-Nitrosodi-n-propylamine	621647	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachloroethane	67721	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Nitrobenzene	98953	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Isophorone	78591	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Nitrophenol	88755	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dimethylphenol	105679	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Chloroethoxy)methane	111911	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dichlorophenol	120832	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1,2,4-Trichlorobenzene	120821	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Naphthalene	91203	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chloroaniline	106478	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorobutadiene	87683	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chloro-3-methylphenol	59507	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methylnaphthalene	91576	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorocyclopentadiene	77474	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4,6-Trichlorophenol	88062	mg kg-1	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 16 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

					223643
					AI29308
					CSLT-15-49
					PDZ15
					12/2/2013
					0.20m
					SOIL
2790	Phenol	108952	mg kg-¹	N	< 0.5
	bis(2-Chloroethyl)ether	111444	mg kg-¹	N	< 0.5
	2-Chlorophenol	95578	mg kg-¹	N	< 0.5
	1,3-Dichlorobenzene	541731	mg kg-¹	N	< 0.5
	1,4-Dichlorobenzene	106467	mg kg-¹	N	< 0.5
	1,2-Dichlorobenzene	95501	mg kg-¹	N	< 0.5
	2-Methylphenol	95487	mg kg-¹	N	< 0.5
	bis(2-Chloroisopropyl)ether	108601	mg kg-¹	N	< 0.5
	4-Methylphenol	106445	mg kg-¹	N	< 0.5
	N-Nitrosodi-n-propylamine	621647	mg kg-¹	N	< 0.5
	Hexachloroethane	67721	mg kg-¹	N	< 0.5
	Nitrobenzene	98953	mg kg-¹	N	< 0.5
	Isophorone	78591	mg kg-¹	N	< 0.5
	2-Nitrophenol	88755	mg kg-¹	N	< 0.5
	2,4-Dimethylphenol	105679	mg kg-¹	N	< 0.5
	bis(2-Chloroethoxy)methane	111911	mg kg-¹	N	< 0.5
	2,4-Dichlorophenol	120832	mg kg-¹	N	< 0.5
	1,2,4-Trichlorobenzene	120821	mg kg-¹	N	< 0.5
	Naphthalene	91203	mg kg-¹	N	< 0.5
	4-Chloroaniline	106478	mg kg-¹	N	< 0.5
	Hexachlorobutadiene	87683	mg kg-¹	N	< 0.5
	4-Chloro-3-methylphenol	59507	mg kg-¹	N	< 0.5
	2-Methylnaphthalene	91576	mg kg-¹	N	< 0.5
	Hexachlorocyclopentadiene	77474	mg kg-¹	N	< 0.5
	2,4,6-Trichlorophenol	88062	mg kg-¹	N	< 0.5

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					223643					
					AI29296	AI29297	AI29298	AI29299	AI29300	AI29301
					CSLT-15-51	CSLT-15-52	CSLT-15-53	CSLT-15-54	CSLT-15-55	CSLT-15-80
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2790	2,4,5-Trichlorophenol	95954	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Chloronaphthalene	91587	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Nitroaniline	88744	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Dimethylphthalate	131113	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,6-Dinitrotoluene	606202	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Acenaphthylene	208968	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3-Nitroaniline	99092	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Acenaphthene	83329	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Dibenzofuran	132649	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dinitrotoluene	121142	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Diethylphthalate	84662	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Fluorene	86737	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Chlorophenylphenylether	7005723	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Nitroaniline	100016	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Methyl-4,6-dinitrophenol	534521	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Azobenzene	103333	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Bromophenylphenylether	101553	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorobenzene	118741	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Pentachlorophenol	87865	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Phenanthrene	85018	mg kg-¹	N	< 0.5	0.77	< 0.5	< 0.5	< 0.5	< 0.5
	Anthracene	120127	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Carbazole	86748	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Di-n-butylphthalate	84742	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Fluoranthene	206440	mg kg-¹	N	0.71	1.5	1.3	< 0.5	< 0.5	< 0.5
	Pyrene	129000	mg kg-¹	N	< 0.5	1.3	1.1	< 0.5	< 0.5	< 0.5

All tests undertaken between 14/02/2013 and 21/02/2013

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					223643					
					AI29302	AI29303	AI29304	AI29305	AI29306	AI29307
					CSLT-15-81	CSLT-15-79	CSLT-15-50	CSLT-15-70	CSLT-15-75	CSLT-15-48
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2790	2,4,5-Trichlorophenol	95954	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Chloronaphthalene	91587	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2-Nitroaniline	88744	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Dimethylphthalate	131113	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,6-Dinitrotoluene	606202	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Acenaphthylene	208968	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3-Nitroaniline	99092	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Acenaphthene	83329	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Dibenzofuran	132649	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dinitrotoluene	121142	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Diethylphthalate	84662	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Fluorene	86737	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
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	2-Methyl-4,6-dinitrophenol	534521	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Azobenzene	103333	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Bromophenylphenylether	101553	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Hexachlorobenzene	118741	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Pentachlorophenol	87865	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Phenanthrene	85018	mg kg-¹	N	0.78	1.0	1.8	< 0.5	0.73	< 0.5
	Anthracene	120127	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Carbazole	86748	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Di-n-butylphthalate	84742	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Fluoranthene	206440	mg kg-¹	N	1.1	1.6	1.9	0.80	0.92	< 0.5
	Pyrene	129000	mg kg-¹	N	0.94	1.3	1.5	0.62	0.70	< 0.5

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					223643
					AI29308
					CSLT-15-49
					PDZ15
					12/2/2013
					0.20m
					SOIL
2790	2,4,5-Trichlorophenol	95954	mg kg-¹	N	< 0.5
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	2-Nitroaniline	88744	mg kg-¹	N	< 0.5
	Dimethylphthalate	131113	mg kg-¹	N	< 0.5
	2,6-Dinitrotoluene	606202	mg kg-¹	N	< 0.5
	Acenaphthylene	208968	mg kg-¹	N	< 0.5
	3-Nitroaniline	99092	mg kg-¹	N	< 0.5
	Acenaphthene	83329	mg kg-¹	N	< 0.5
	Dibenzofuran	132649	mg kg-¹	N	< 0.5
	2,4-Dinitrotoluene	121142	mg kg-¹	N	< 0.5
	Diethylphthalate	84662	mg kg-¹	N	< 0.5
	Fluorene	86737	mg kg-¹	N	< 0.5
	4-Chlorophenylphenylether	7005723	mg kg-¹	N	< 0.5
	4-Nitroaniline	100016	mg kg-¹	N	< 0.5
	2-Methyl-4,6-dinitrophenol	534521	mg kg-¹	N	< 0.5
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	4-Bromophenylphenylether	101553	mg kg-¹	N	< 0.5
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	Phenanthrene	85018	mg kg-¹	N	< 0.5
	Anthracene	120127	mg kg-¹	N	< 0.5
	Carbazole	86748	mg kg-¹	N	< 0.5
	Di-n-butylphthalate	84742	mg kg-¹	N	< 0.5
	Fluoranthene	206440	mg kg-¹	N	< 0.5
	Pyrene	129000	mg kg-¹	N	< 0.5

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					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2790	Butylbenzylphthalate	85687	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[a]anthracene	56553	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Chrysene	218019	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	bis(2-Ethylhexyl)phthalate	117817	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Di-n-octylphthalate	117840	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[b]fluoranthene	205992	mg kg-¹	N	< 0.5	0.66	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[k]fluoranthene	207089	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[a]pyrene	50328	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Dibenzo[a,h]anthracene	53703	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[g,h,]perylene	191242	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dinitrophenol	51285	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Nitrophenol	100027	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

All tests undertaken between 14/02/2013 and 21/02/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 16 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

					223643					
					AI29302	AI29303	AI29304	AI29305	AI29306	AI29307
					CSLT-15-81	CSLT-15-79	CSLT-15-50	CSLT-15-70	CSLT-15-75	CSLT-15-48
					PDZ15	PDZ15	PDZ15	PDZ15	PDZ15	PDZ15
					12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013	12/2/2013
					0.20m	0.20m	0.20m	0.20m	0.20m	0.20m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2790	Butylbenzylphthalate	85687	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[a]anthracene	56553	mg kg-¹	N	< 0.5	< 0.5	0.73	< 0.5	< 0.5	< 0.5
	Chrysene	218019	mg kg-¹	N	< 0.5	< 0.5	0.60	< 0.5	< 0.5	< 0.5
	bis(2-Ethylhexyl)phthalate	117817	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Di-n-octylphthalate	117840	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[b]fluoranthene	205992	mg kg-¹	N	0.59	0.65	0.92	< 0.5	< 0.5	< 0.5
	Benzo[k]fluoranthene	207089	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[a]pyrene	50328	mg kg-¹	N	< 0.5	< 0.5	0.80	< 0.5	< 0.5	< 0.5
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Dibenzo[a,h]anthracene	53703	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Benzo[g,h,]perylene	191242	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2,4-Dinitrophenol	51285	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4-Nitrophenol	100027	mg kg-¹	N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 16 samples
received 13 February 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
21 February 2013

					223643
					AI29308
					CSLT-15-49
					PDZ15
					12/2/2013
					0.20m
					SOIL
2790	Butylbenzylphthalate	85687	mg kg-¹	N	< 0.5
	Benzo[a]anthracene	56553	mg kg-¹	N	< 0.5
	Chrysene	218019	mg kg-¹	N	< 0.5
	bis(2-Ethylhexyl)phthalate	117817	mg kg-¹	N	< 0.5
	Di-n-octylphthalate	117840	mg kg-¹	N	< 0.5
	Benzo[b]fluoranthene	205992	mg kg-¹	N	< 0.5
	Benzo[k]fluoranthene	207089	mg kg-¹	N	< 0.5
	Benzo[a]pyrene	50328	mg kg-¹	N	< 0.5
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	N	< 0.5
	Dibenzo[a,h]anthracene	53703	mg kg-¹	N	< 0.5
	Benzo[g,h,]perylene	191242	mg kg-¹	N	< 0.5
	2,4-Dinitrophenol	51285	mg kg-¹	N	< 0.5
	4-Nitrophenol	100027	mg kg-¹	N	< 0.5
2920	Phenols (total)		mg kg-¹	N	<0.3

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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 13 samples
received 13 February 2013
35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest

Report Date
07 March 2013

Login Batch No: 223643

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI29296	PDZ15	CSLT-15-51	0.20	-	No Asbestos Detected
AI29297	PDZ15	CSLT-15-52	0.20	-	No Asbestos Detected
AI29298	PDZ15	CSLT-15-53	0.20	-	No Asbestos Detected
AI29299	PDZ15	CSLT-15-54	0.20	-	No Asbestos Detected
AI29300	PDZ15	CSLT-15-55	0.20	-	No Asbestos Detected
AI29301	PDZ15	CSLT-15-80	0.20	-	No Asbestos Detected
AI29302	PDZ15	CSLT-15-81	0.20	-	No Asbestos Detected
AI29303	PDZ15	CSLT-15-79	0.20	-	No Asbestos Detected
AI29304	PDZ15	CSLT-15-50	0.20	-	No Asbestos Detected
AI29305	PDZ15	CSLT-15-70	0.20	-	No Asbestos Detected
AI29306	PDZ15	CSLT-15-75	0.20	-	No Asbestos Detected
AI29307	PDZ15	CSLT-15-48	0.20	-	No Asbestos Detected
AI29308	PDZ15	CSLT-15-49	0.20	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
Chemtest ID	Sample ID	Sample Desc		
AI29296	PDZ15	CSLT-15-51	<0.001	-
AI29297	PDZ15	CSLT-15-52	<0.001	-
AI29298	PDZ15	CSLT-15-53	<0.001	-
AI29299	PDZ15	CSLT-15-54	<0.001	-
AI29300	PDZ15	CSLT-15-55	<0.001	-
AI29301	PDZ15	CSLT-15-80	<0.001	-
AI29302	PDZ15	CSLT-15-81	<0.001	-
AI29303	PDZ15	CSLT-15-79	<0.001	-
AI29304	PDZ15	CSLT-15-50	<0.001	-
AI29305	PDZ15	CSLT-15-70	<0.001	-
AI29306	PDZ15	CSLT-15-75	<0.001	-
AI29307	PDZ15	CSLT-15-48	<0.001	-
AI29308	PDZ15	CSLT-15-49	<0.001	-

The detection limit for this method is 0.001%

Signed

[redacted]

[redacted]

All tests undertaken between 22-Feb-2013 and 22-Feb-2013

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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 2 samples
received 15 March 2013
Queen Elizabeth Olympic Park, Stratford - 35875-002

Report Date
25 March 2013

Login Batch No: 225856

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI43007	CSLT-7BML-0	NC14		-	No Asbestos Detected
AI43008	CSLT-7BML-0	NC14		-	No Asbestos Detected

The detection limit for this method is 0.001%

Signed
[redacted]

All tests undertaken between 25-Mar-2013 and 25-Mar-2013

LIMS sample ID range AI43007 to AI43008

BAM Nuttall Ltd
St James House
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LABORATORY TEST REPORT

Results of analysis of 7 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
03 April 2013

Login Batch No					**226199**						
Chemtest LIMS ID					AI45036	AI45037	AI45038	AI45039	AI45040	AI45041
Sample ID					cslt-15-22	cslt-15-stk01	cslt-15-stk02	cslt-15-56	cslt-15-84	cslt-15-90
Sample No					NC20	NC20 Stockpile	NC20 Stockpile	NC20	NC20	NC20
Sampling Date					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
Depth					0.10m			0.10m	0.10m	0.10m
Matrix					*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l⁻¹	U	0.43	0.31	0.36	3.3	0.72	0.93
1300	Cyanide (free)	57125	mg l⁻¹	U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1220	Sulfate	14808798	mg l⁻¹	U	10	110	8.4	110	90	110
1450	Arsenic	7440382	µg l⁻¹	U	75	9.9	7.8	9.6	7.3	8.5
	Cadmium	7440439	µg l⁻¹	U	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
	Copper	7440508	µg l⁻¹	U	12	7.6	13	12	8.4	5.8
	Mercury	7439976	µg l⁻¹	U	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Nickel	7440020	µg l⁻¹	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Lead	7439921	µg l⁻¹	U	380	8.0	26	<1.0	<1.0	<1.0
	Selenium	7782492	µg l⁻¹	U	5.6	4.6	1.8	3.5	2.7	9.6
	Zinc	7440666	µg l⁻¹	U	7.0	1.8	4.7	1.4	1.6	2.2
1490	Chromium (hexavalent)	18540299	µg l⁻¹	U	<20	<20	<20	<20	<20	<20
1700	Naphthalene	91203	µg l⁻¹	U	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthylene	208968	µg l⁻¹	U	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthene	83329	µg l⁻¹	U	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Fluorene	86737	µg l⁻¹	U	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Phenanthrene	85018	µg l⁻¹	U	2.9	<0.1	<0.1	0.5	1.3	1.3
	Anthracene	120127	µg l⁻¹	U	1.1	<0.1	<0.1	0.4	0.7	0.5
	Fluoranthene	206440	µg l⁻¹	U	6.7	<0.1	<0.1	1	2.3	1.7
	Pyrene	129000	µg l⁻¹	U	6.2	<0.1	<0.1	0.8	2.1	1.1
	Benzo[a]anthracene	56553	µg l⁻¹	U	3.5	<0.1	<0.1	0.5	1.3	0.7
	Chrysene	218019	µg l⁻¹	U	4	<0.1	<0.1	0.8	1.4	0.7
	Benzo[b]fluoranthene	205992	µg l⁻¹	U	5.4	<0.1	<0.1	1.1	3.3	1.3
	Benzo[k]fluoranthene	207089	µg l⁻¹	U	3.7	<0.1	<0.1	0.8	2.8	1.1

All tests undertaken between 21/03/2013 and 03/04/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 7 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

Login Batch No					**226199**
Chemtest LIMS ID					AI45042
Sample ID					cslt-15-92
Sample No					NC20
Sampling Date					19/3/2013
Depth					0.10m
Matrix					*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U	1.3
1300	Cyanide (free)	57125	mg l-¹	U	< 0.05
1220	Sulfate	14808798	mg l-¹	U	100
1450	Arsenic	7440382	µg l-¹	U	9.0
	Cadmium	7440439	µg l-¹	U	<0.080
	Copper	7440508	µg l-¹	U	10
	Mercury	7439976	µg l-¹	U	<0.50
	Nickel	7440020	µg l-¹	U	<1.0
	Lead	7439921	µg l-¹	U	<1.0
	Selenium	7782492	µg l-¹	U	3.2
	Zinc	7440666	µg l-¹	U	1.4
1490	Chromium (hexavalent)	18540299	µg l-¹	U	<20
1700	Naphthalene	91203	µg l-¹	U	<0.1
	Acenaphthylene	208968	µg l-¹	U	<0.1
	Acenaphthene	83329	µg l-¹	U	<0.1
	Fluorene	86737	µg l-¹	U	<0.1
	Phenanthrene	85018	µg l-¹	U	0.6
	Anthracene	120127	µg l-¹	U	0.3
	Fluoranthene	206440	µg l-¹	U	1.1
	Pyrene	129000	µg l-¹	U	0.9
	Benzo[a]anthracene	56553	µg l-¹	U	<0.1
	Chrysene	218019	µg l-¹	U	<0.1
	Benzo[b]fluoranthene	205992	µg l-¹	U	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	U	<0.1

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 7 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

					226199					
					AI45036	AI45037	AI45038	AI45039	AI45040	AI45041
					cslt-15-22	cslt-15-stk01	cslt-15-stk02	cslt-15-56	cslt-15-84	cslt-15-90
					NC20	NC20 Stockpile	NC20 Stockpile	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m			0.10m	0.10m	0.10m
					LEACHATE	*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*
1700	Benzo[a]pyrene	50328	µg l-¹	U	4.8	<0.1	<0.1	0.7	1.8	0.9
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	1.2	<0.1	<0.1	<0.1	0.4	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	3.4	<0.1	<0.1	<0.1	1.1	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	3.2	<0.1	<0.1	<0.1	1.1	<0.1
	Total (of 16) PAHs		µg l-¹	U	46	<2	<2	6.6	20	9.4
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03

All tests undertaken between 21/03/2013 and 03/04/2013

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 7 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

					226199
					AI45042
					cslt-15-92
					NC20
					19/3/2013
					0.10m
					LEACHATE
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1
	Total (of 16) PAHs		µg l-¹	U	2.9
1920	Phenols (total)		mg l-¹	N	< 0.03

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

Login Batch No						**226199**					
Chemtest LIMS ID						AI45004	AI45005	AI45006	AI45007	AI45008	AI45009
Sample ID						cslt-15-21	cslt-15-22	cslt-15-23	cslt-15-24	cslt-15-25	cslt-15-26
Sample No						NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date						19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
Depth						0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
Matrix						*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*							
2300	Cyanide (free)	57125	mg kg-¹	M		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M		12	16	23	16	17	14
	Cadmium	7440439	mg kg-¹	M		0.14	0.18	0.61	0.13	0.11	0.14
	Mercury	7439976	mg kg-¹	M		0.43	0.60	0.48	0.35	0.67	0.62
	Nickel	7440020	mg kg-¹	M		19	22	27	17	24	22
	Lead	7439921	mg kg-¹	M		220	240	250	160	160	150
	Selenium	7782492	mg kg-¹	M		<0.20	0.20	0.20	<0.20	0.37	0.36
2675	TPH aliphatic >C5-C6		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N		< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1	< 0.1	0.20	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M		< 1	< 1	< 1	4.9	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M		2.9	2.3	3.0	8.6	1.6	3.1
	TPH aromatic >C16-C21		mg kg-¹	M		7.5	5.6	13	15	8.0	9.3
	TPH aromatic >C21-C35		mg kg-¹	M		12	11	20	19	11	20
	TPH aromatic >C35-C44		mg kg-¹	N		< 1	< 1	< 1	2.5	< 1	1.5

All tests undertaken between 21/03/2013 and 03/04/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

Login Batch No					**226199**						
Chemtest LIMS ID					AI45010	AI45011	AI45012	AI45013	AI45014	AI45015
Sample ID					cslt-15-27	cslt-15-82	cslt-15-83	cslt-15-stk01	cslt-15-stk02	cslt-15-28
Sample No					NC20	NC20	NC20	NC20 Stockpile	NC20 Stockpile	NC20
Sampling Date					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
Depth					0.10m	0.10m	0.10m			0.10m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	22	17	24	12	16	17
	Cadmium	7440439	mg kg-¹	M	0.21	0.15	0.29	0.11	0.18	<0.10
	Mercury	7439976	mg kg-¹	M	0.52	0.57	0.68	0.44	0.45	0.46
	Nickel	7440020	mg kg-¹	M	29	21	72	19	23	20
	Lead	7439921	mg kg-¹	M	200	180	240	150	170	170
	Selenium	7782492	mg kg-¹	M	0.53	0.45	0.25	<0.20	<0.20	0.25
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	1.2	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	4.4	3.2	3.4	8.2	1.5	3.6
	TPH aromatic >C16-C21		mg kg-¹	M	9.6	8.7	6.9	25	12	10
	TPH aromatic >C21-C35		mg kg-¹	M	28	16	14	40	29	16
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	4.5	3.2	< 1

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

Login Batch No					**226199**						
Chemtest LIMS ID					AI45016	AI45017	AI45018	AI45019	AI45020	AI45021
Sample ID					cslt-15-29	cslt-15-30	cslt-15-56	cslt-15-57	cslt-15-58	cslt-15-59
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
Depth					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	12	18	14	17	18	12
	Cadmium	7440439	mg kg-¹	M	<0.10	<0.10	<0.10	0.15	0.15	1.1
	Mercury	7439976	mg kg-¹	M	0.35	0.40	0.42	0.58	0.53	0.43
	Nickel	7440020	mg kg-¹	M	21	23	21	25	31	26
	Lead	7439921	mg kg-¹	M	160	150	170	250	280	140
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	0.20	<0.20	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	1.7	< 1	< 1	1.2	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	2.6	4.1	2.0	2.2	7.4	1.1
	TPH aromatic >C16-C21		mg kg-¹	M	6.1	8.5	5.4	6.7	27	3.5
	TPH aromatic >C21-C35		mg kg-¹	M	11	18	8.7	8.5	24	2.6
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	1.1	< 1	< 1	< 1	< 1

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

Login Batch No					**226199**						
Chemtest LIMS ID					AI45022	AI45023	AI45024	AI45025	AI45026	AI45027
Sample ID					cslt-15-60	cslt-15-11	cslt-15-14	cslt-15-41	cslt-15-44	cslt-15-84
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
Depth					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	13	15	19	16	16	19
	Cadmium	7440439	mg kg-¹	M	0.51	0.14	0.21	0.19	0.19	0.36
	Mercury	7439976	mg kg-¹	M	0.35	0.24	0.26	0.40	0.53	0.49
	Nickel	7440020	mg kg-¹	M	22	16	18	25	25	23
	Lead	7439921	mg kg-¹	M	150	86	95	140	200	210
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	8.9	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	21	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	4.9	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	1.8	4.8	2.7	2.4	3.1	2.6
	TPH aromatic >C16-C21		mg kg-¹	M	3.7	14	6.6	6.9	7.9	5.7
	TPH aromatic >C21-C35		mg kg-¹	M	5.6	12	8.2	11	11	13
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

Login Batch No					**226199**						
Chemtest LIMS ID					AI45028	AI45029	AI45030	AI45031	AI45032	AI45033
Sample ID					cslt-15-85	cslt-15-86	cslt-15-87	cslt-15-88	cslt-15-89	cslt-15-90
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
Depth					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	13	11	23	23	12	12
	Cadmium	7440439	mg kg-¹	M	0.12	0.13	<0.10	0.15	0.11	0.14
	Mercury	7439976	mg kg-¹	M	0.33	0.32	2.0	2.4	0.45	0.38
	Nickel	7440020	mg kg-¹	M	18	19	26	27	18	20
	Lead	7439921	mg kg-¹	M	120	130	740	540	160	170
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	3.3	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	21	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	11	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	1.3	< 1	1.0
	TPH aromatic >C12-C16		mg kg-¹	M	2.0	< 1	1.6	2.8	1.1	2.2
	TPH aromatic >C16-C21		mg kg-¹	M	8.2	3.2	5.1	5.9	5.7	5.9
	TPH aromatic >C21-C35		mg kg-¹	M	11	1.1	7.1	8.9	9.7	9.0
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
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Report Date
03 April 2013

Login Batch No					**226199**	
Chemtest LIMS ID					AI45034	AI45035
Sample ID					cslt-15-91	cslt-15-92
Sample No					NC20	NC20
Sampling Date					19/3/2013	19/3/2013
Depth					0.10m	0.10m
Matrix					*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*		
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	12	13
	Cadmium	7440439	mg kg-¹	M	0.15	<0.10
	Mercury	7439976	mg kg-¹	M	0.37	0.72
	Nickel	7440020	mg kg-¹	M	17	20
	Lead	7439921	mg kg-¹	M	140	150
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	1.3	2.4
	TPH aromatic >C16-C21		mg kg-¹	M	3.1	6.6
	TPH aromatic >C21-C35		mg kg-¹	M	6.2	12
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1

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LABORATORY TEST REPORT

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					226199					
					AI45004	AI45005	AI45006	AI45007	AI45008	AI45009
					cslt-15-21	cslt-15-22	cslt-15-23	cslt-15-24	cslt-15-25	cslt-15-26
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	22	19	36	50	21	34
2700	Naphthalene	91203	mg kg-¹	M	2.7	1.3	0.95	0.96	0.69	0.67
	Acenaphthylene	208968	mg kg-¹	M	2	0.64	0.28	0.21	0.22	0.2
	Acenaphthene	83329	mg kg-¹	M	13	3.1	1.1	0.83	0.56	0.65
	Fluorene	86737	mg kg-¹	M	7	0.88	0.22	0.79	< 0.1	0.33
	Phenanthrene	85018	mg kg-¹	M	17	4.2	2	2	1.4	1.2
	Anthracene	120127	mg kg-¹	M	6.7	1.7	0.74	0.6	0.54	0.49
	Fluoranthene	206440	mg kg-¹	M	9	3	2.7	1.8	2.1	1.7
	Pyrene	129000	mg kg-¹	M	6.4	2.3	2.2	1.6	1.8	1.5
	Benzo[a]anthracene	56553	mg kg-¹	M	3.2	1.3	1.2	0.75	1	0.89
	Chrysene	218019	mg kg-¹	M	3.3	1.3	1.3	0.85	1.1	0.95
	Benzo[b]fluoranthene	205992	mg kg-¹	M	2.7	1.1	1.4	0.77	0.9	0.96
	Benzo[k]fluoranthene	207089	mg kg-¹	M	2.8	1.2	1.1	0.76	1.1	0.8
	Benzo[a]pyrene	50328	mg kg-¹	M	2.8	1.2	1.3	1	1.1	0.96
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.76	0.27	0.1	< 0.1	0.58	0.47
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	1.7	0.77	0.74	< 0.1	0.85	0.74
	Benzo[g,h,]perylene	191242	mg kg-¹	M	1.8	0.38	0.34	< 0.1	0.43	0.42
	Total (of 16) PAHs		mg kg-¹	M	83	25	18	13	14	13
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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LABORATORY TEST REPORT

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03 April 2013

					226199					
					AI45010	AI45011	AI45012	AI45013	AI45014	AI45015
					cslt-15-27	cslt-15-82	cslt-15-83	cslt-15-stk01	cslt-15-stk02	cslt-15-28
					NC20	NC20	NC20	NC20 Stockpile	NC20 Stockpile	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m			0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-1	N	43	29	24	79	46	31
2700	Naphthalene	91203	mg kg-1	M	0.84	1.1	0.84	1.2	0.84	0.6
	Acenaphthylene	208968	mg kg-1	M	0.38	0.44	0.39	0.58	0.47	0.27
	Acenaphthene	83329	mg kg-1	M	0.61	0.67	0.59	1.2	0.44	0.34
	Fluorene	86737	mg kg-1	M	0.3	0.39	0.72	0.97	0.39	0.23
	Phenanthrene	85018	mg kg-1	M	1	1.2	3.9	4.8	2	1.7
	Anthracene	120127	mg kg-1	M	0.46	0.5	1.1	1.2	0.66	0.51
	Fluoranthene	206440	mg kg-1	M	1.4	1.5	4.9	6.8	4.3	2.2
	Pyrene	129000	mg kg-1	M	1.2	1.3	3.8	5.7	3.7	1.9
	Benzo[a]anthracene	56553	mg kg-1	M	0.87	0.88	2.1	3.4	2.4	1.2
	Chrysene	218019	mg kg-1	M	0.78	0.81	2.2	3.9	2.5	1.1
	Benzo[b]fluoranthene	205992	mg kg-1	M	0.71	0.67	1.8	3.3	2.5	0.99
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.68	0.53	1.4	2.6	2.7	0.91
	Benzo[a]pyrene	50328	mg kg-1	M	0.67	0.7	1.6	3.2	2.6	1.1
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	0.52	0.23	0.75	0.6	0.8	0.18
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	0.65	0.51	1.5	2.3	2	0.88
	Benzo[g,h,]perylene	191242	mg kg-1	M	0.68	0.42	1.4	1.7	1.8	0.88
	Total (of 16) PAHs		mg kg-1	M	12	12	29	43	30	15
2760	Methyl tert-butylether	1634044	µg kg-1	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

					226199					
					AI45016	AI45017	AI45018	AI45019	AI45020	AI45021
					cslt-15-29	cslt-15-30	cslt-15-56	cslt-15-57	cslt-15-58	cslt-15-59
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	20	33	17	18	60	< 10
2700	Naphthalene	91203	mg kg-¹	M	0.43	0.53	0.57	0.27	0.34	0.36
	Acenaphthylene	208968	mg kg-¹	M	0.28	0.25	0.16	0.18	0.22	0.18
	Acenaphthene	83329	mg kg-¹	M	0.33	0.31	0.37	0.3	0.44	0.29
	Fluorene	86737	mg kg-¹	M	0.24	0.2	0.18	< 0.1	0.26	0.21
	Phenanthrene	85018	mg kg-¹	M	1.2	0.89	0.81	0.64	1.3	0.75
	Anthracene	120127	mg kg-¹	M	0.45	0.37	0.36	0.37	0.53	0.39
	Fluoranthene	206440	mg kg-¹	M	2.1	1.4	1.5	1.2	2.1	1.2
	Pyrene	129000	mg kg-¹	M	1.8	1.3	1.3	1.1	1.8	1.2
	Benzo[a]anthracene	56553	mg kg-¹	M	1.1	0.67	0.83	0.5	1.1	0.81
	Chrysene	218019	mg kg-¹	M	1.1	0.8	0.79	0.58	1.1	0.8
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.84	0.85	0.75	0.6	1.1	0.97
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.55	0.85	0.46	0.6	0.92	0.84
	Benzo[a]pyrene	50328	mg kg-¹	M	0.98	0.8	0.73	0.69	1	0.87
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.17	0.25	0.22	< 0.1	0.39	0.3
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.78	0.62	0.65	0.4	0.83	0.76
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.96	0.53	0.61	0.29	0.87	0.46
	Total (of 16) PAHs		mg kg-¹	M	13	11	10	7.7	14	10
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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LABORATORY TEST REPORT

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03 April 2013

					226199					
					AI45022	AI45023	AI45024	AI45025	AI45026	AI45027
					cslt-15-60	cslt-15-11	cslt-15-14	cslt-15-41	cslt-15-44	cslt-15-84
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	12	66	18	21	23	22
2700	Naphthalene	91203	mg kg-¹	M	0.2	0.54	0.43	0.27	0.32	0.23
	Acenaphthylene	208968	mg kg-¹	M	0.15	0.31	0.34	0.18	0.21	0.2
	Acenaphthene	83329	mg kg-¹	M	0.49	0.5	0.54	0.33	0.34	0.34
	Fluorene	86737	mg kg-¹	M	0.5	0.27	0.3	0.29	0.22	0.26
	Phenanthrene	85018	mg kg-¹	M	1.1	1	1.8	1.9	0.89	1.6
	Anthracene	120127	mg kg-¹	M	0.4	0.53	0.84	0.55	0.52	0.48
	Fluoranthene	206440	mg kg-¹	M	1.2	1.5	3	2	1.5	2
	Pyrene	129000	mg kg-¹	M	0.9	1.5	2.7	1.6	1.3	1.6
	Benzo[a]anthracene	56553	mg kg-¹	M	0.71	0.78	1.9	0.86	0.81	0.96
	Chrysene	218019	mg kg-¹	M	0.67	0.8	2.1	0.96	0.82	1
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.63	0.76	2.2	0.76	0.7	0.94
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.47	0.71	1.9	0.6	0.65	0.68
	Benzo[a]pyrene	50328	mg kg-¹	M	0.58	0.7	2.6	0.7	0.61	0.85
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	< 0.1	0.31	0.78	0.39	0.23	0.33
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.33	0.56	2.5	0.55	0.72	0.78
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.44	0.72	2.5	0.43	0.65	0.65
	Total (of 16) PAHs		mg kg-¹	M	8.8	11	26	12	10	13
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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LABORATORY TEST REPORT

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Chemtest
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Report Date
03 April 2013

					226199					
					AI45028	AI45029	AI45030	AI45031	AI45032	AI45033
					cslt-15-85	cslt-15-86	cslt-15-87	cslt-15-88	cslt-15-89	cslt-15-90
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-1	N	57	< 10	14	19	17	19
2700	Naphthalene	91203	mg kg-1	M	0.41	0.19	0.95	0.79	0.32	0.34
	Acenaphthylene	208968	mg kg-1	M	0.21	0.18	0.38	0.54	0.4	0.26
	Acenaphthene	83329	mg kg-1	M	0.48	0.34	0.69	0.93	0.7	0.63
	Fluorene	86737	mg kg-1	M	0.29	0.25	0.42	0.79	0.41	0.48
	Phenanthrene	85018	mg kg-1	M	0.92	0.81	1.4	1.5	1	2.7
	Anthracene	120127	mg kg-1	M	0.5	0.45	0.61	0.65	0.51	1.2
	Fluoranthene	206440	mg kg-1	M	1.6	1.3	2.4	2.4	1.5	3.3
	Pyrene	129000	mg kg-1	M	1.5	1.3	2	2	1.4	2.6
	Benzo[a]anthracene	56553	mg kg-1	M	0.68	0.42	1.4	1.3	0.9	1.5
	Chrysene	218019	mg kg-1	M	0.72	0.55	1.3	1.2	0.87	1.6
	Benzo[b]fluoranthene	205992	mg kg-1	M	0.6	0.77	1.1	1.2	0.95	1.5
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.6	0.6	1.1	1.2	0.94	1.4
	Benzo[a]pyrene	50328	mg kg-1	M	0.77	0.62	1.2	1.4	0.96	1.6
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	0.2	0.19	0.57	0.36	0.44	0.42
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	0.59	0.44	1	1.1	0.6	1
	Benzo[g,h,]perylene	191242	mg kg-1	M	0.64	0.54	0.74	0.96	0.66	0.95
	Total (of 16) PAHs		mg kg-1	M	11	9	17	18	13	21
2760	Methyl tert-butylether	1634044	µg kg-1	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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LABORATORY TEST REPORT

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					226199	
					AI45034	AI45035
					cslt-15-91	cslt-15-92
					NC20	NC20
					19/3/2013	19/3/2013
					0.10m	0.10m
					SOIL	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	11	21
2700	Naphthalene	91203	mg kg-¹	M	0.18	0.29
	Acenaphthylene	208968	mg kg-¹	M	0.22	0.28
	Acenaphthene	83329	mg kg-¹	M	0.39	0.44
	Fluorene	86737	mg kg-¹	M	0.29	0.27
	Phenanthrene	85018	mg kg-¹	M	0.89	1.1
	Anthracene	120127	mg kg-¹	M	0.5	0.57
	Fluoranthene	206440	mg kg-¹	M	1.7	2
	Pyrene	129000	mg kg-¹	M	1.6	1.7
	Benzo[a]anthracene	56553	mg kg-¹	M	1	1.2
	Chrysene	218019	mg kg-¹	M	0.89	1.1
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.85	1.5
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.89	1.3
	Benzo[a]pyrene	50328	mg kg-¹	M	0.82	1.4
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.53	0.59
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.81	1.1
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.74	1
	Total (of 16) PAHs		mg kg-¹	M	12	16
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0

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					226199					
					AI45004	AI45005	AI45006	AI45007	AI45008	AI45009
					cslt-15-21	cslt-15-22	cslt-15-23	cslt-15-24	cslt-15-25	cslt-15-26
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 21/03/2013 and 03/04/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

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					226199					
					AI45010	AI45011	AI45012	AI45013	AI45014	AI45015
					cslt-15-27	cslt-15-82	cslt-15-83	cslt-15-stk01	cslt-15-stk02	cslt-15-28
					NC20	NC20	NC20	NC20 Stockpile	NC20 Stockpile	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m			0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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					226199					
					AI45016	AI45017	AI45018	AI45019	AI45020	AI45021
					cslt-15-29	cslt-15-30	cslt-15-56	cslt-15-57	cslt-15-58	cslt-15-59
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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					226199					
					AI45022	AI45023	AI45024	AI45025	AI45026	AI45027
					cslt-15-60	cslt-15-11	cslt-15-14	cslt-15-41	cslt-15-44	cslt-15-84
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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					226199					
					AI45028	AI45029	AI45030	AI45031	AI45032	AI45033
					cslt-15-85	cslt-15-86	cslt-15-87	cslt-15-88	cslt-15-89	cslt-15-90
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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					226199	
					AI45034	AI45035
					cslt-15-91	cslt-15-92
					NC20	NC20
					19/3/2013	19/3/2013
					0.10m	0.10m
					SOIL	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0

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					226199					
					AI45004	AI45005	AI45006	AI45007	AI45008	AI45009
					cslt-15-21	cslt-15-22	cslt-15-23	cslt-15-24	cslt-15-25	cslt-15-26
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	2.4	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	1.7	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

All tests undertaken between 21/03/2013 and 03/04/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

					226199					
					AI45010	AI45011	AI45012	AI45013	AI45014	AI45015
					cslt-15-27	cslt-15-82	cslt-15-83	cslt-15-stk01	cslt-15-stk02	cslt-15-28
					NC20	NC20	NC20	NC20 Stockpile	NC20 Stockpile	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m			0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

					226199					
					AI45016	AI45017	AI45018	AI45019	AI45020	AI45021
					cslt-15-29	cslt-15-30	cslt-15-56	cslt-15-57	cslt-15-58	cslt-15-59
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

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BAM Nuttall Ltd
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GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

					226199					
					AI45022	AI45023	AI45024	AI45025	AI45026	AI45027
					cslt-15-60	cslt-15-11	cslt-15-14	cslt-15-41	cslt-15-44	cslt-15-84
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	3.1	9.4	< 1.0	5.9	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	11	36	< 1.0	11	1.4
	o-Xylene	95476	µg kg-¹	U	< 1.0	7.2	18	< 1.0	14	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

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GU15 3XW

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LABORATORY TEST REPORT

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received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

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03 April 2013

					226199					
					AI45028	AI45029	AI45030	AI45031	AI45032	AI45033
					cslt-15-85	cslt-15-86	cslt-15-87	cslt-15-88	cslt-15-89	cslt-15-90
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	1.9	1.1	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* Accreditation status

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LABORATORY TEST REPORT

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Report Date
03 April 2013

					226199	
					AI45034	AI45035
					cslt-15-91	cslt-15-92
					NC20	NC20
					19/3/2013	19/3/2013
					0.10m	0.10m
					SOIL	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0

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					226199					
					AI45004	AI45005	AI45006	AI45007	AI45008	AI45009
					cslt-15-21	cslt-15-22	cslt-15-23	cslt-15-24	cslt-15-25	cslt-15-26
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

All tests undertaken between 21/03/2013 and 03/04/2013

* Accreditation status

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					226199					
					AI45010	AI45011	AI45012	AI45013	AI45014	AI45015
					cslt-15-27	cslt-15-82	cslt-15-83	cslt-15-stk01	cslt-15-stk02	cslt-15-28
					NC20	NC20	NC20	NC20 Stockpile	NC20 Stockpile	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m			0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
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GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

					226199					
					AI45016	AI45017	AI45018	AI45019	AI45020	AI45021
					cslt-15-29	cslt-15-30	cslt-15-56	cslt-15-57	cslt-15-58	cslt-15-59
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

					226199					
					AI45022	AI45023	AI45024	AI45025	AI45026	AI45027
					cslt-15-60	cslt-15-11	cslt-15-14	cslt-15-41	cslt-15-44	cslt-15-84
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 39 samples
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35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

					226199					
					AI45028	AI45029	AI45030	AI45031	AI45032	AI45033
					cslt-15-85	cslt-15-86	cslt-15-87	cslt-15-88	cslt-15-89	cslt-15-90
					NC20	NC20	NC20	NC20	NC20	NC20
					19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013	19/3/2013
					0.10m	0.10m	0.10m	0.10m	0.10m	0.10m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 39 samples
received 21 March 2013

35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
03 April 2013

					226199	
					AI45034	AI45035
					cslt-15-91	cslt-15-92
					NC20	NC20
					19/3/2013	19/3/2013
					0.10m	0.10m
					SOIL	*SOIL*
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3

* Accreditation status

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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 32 samples
received 21 March 2013
35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
05 April 2013

Login Batch No: 226199

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI45004	cslt-15-21	NC20	0.10	-	No Asbestos Detected
AI45005	cslt-15-22	NC20	0.10	-	No Asbestos Detected
AI45006	cslt-15-23	NC20	0.10	-	No Asbestos Detected
AI45007	cslt-15-24	NC20	0.10	-	No Asbestos Detected
AI45008	cslt-15-25	NC20	0.10	-	No Asbestos Detected
AI45009	cslt-15-26	NC20	0.10	-	No Asbestos Detected
AI45010	cslt-15-27	NC20	0.10	-	No Asbestos Detected
AI45011	cslt-15-82	NC20	0.10	-	No Asbestos Detected
AI45012	cslt-15-83	NC20	0.10	-	No Asbestos Detected
AI45013	cslt-15-stk01	NC20 Stockpile		-	No Asbestos Detected
AI45014	cslt-15-stk02	NC20 Stockpile		-	No Asbestos Detected
AI45015	cslt-15-28	NC20	0.10	-	No Asbestos Detected
AI45016	cslt-15-29	NC20	0.10	-	No Asbestos Detected
AI45017	cslt-15-30	NC20	0.10	-	No Asbestos Detected
AI45018	cslt-15-56	NC20	0.10	-	No Asbestos Detected
AI45019	cslt-15-57	NC20	0.10	-	No Asbestos Detected
AI45020	cslt-15-58	NC20	0.10	Free Fibres	Chrysotile
AI45021	cslt-15-59	NC20	0.10	Free Fibres	Chrysotile
AI45022	cslt-15-60	NC20	0.10	-	No Asbestos Detected
AI45023	cslt-15-11	NC20	0.10	-	No Asbestos Detected
AI45024	cslt-15-14	NC20	0.10	-	No Asbestos Detected
AI45025	cslt-15-41	NC20	0.10	-	No Asbestos Detected
AI45026	cslt-15-44	NC20	0.10	-	No Asbestos Detected
AI45027	cslt-15-84	NC20	0.10	-	No Asbestos Detected
AI45028	cslt-15-85	NC20	0.10	-	No Asbestos Detected
AI45029	cslt-15-86	NC20	0.10	-	No Asbestos Detected
AI45030	cslt-15-87	NC20	0.10	-	No Asbestos Detected
AI45031	cslt-15-88	NC20	0.10	-	No Asbestos Detected
AI45032	cslt-15-89	NC20	0.10	-	No Asbestos Detected
AI45033	cslt-15-90	NC20	0.10	-	No Asbestos Detected
AI45034	cslt-15-91	NC20	0.10	-	No Asbestos Detected
AI45035	cslt-15-92	NC20	0.10	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
Chemtest ID	Sample ID	Sample Desc		
AI45004	cslt-15-21	NC20	<0.001	-
AI45005	cslt-15-22	NC20	<0.001	-
AI45006	cslt-15-23	NC20	<0.001	-
AI45007	cslt-15-24	NC20	<0.001	-
AI45008	cslt-15-25	NC20	<0.001	-
AI45009	cslt-15-26	NC20	<0.001	-
AI45010	cslt-15-27	NC20	<0.001	-
AI45011	cslt-15-82	NC20	<0.001	-
AI45012	cslt-15-83	NC20	<0.001	-
AI45013	cslt-15-stk01	NC20 Stockpile	<0.001	-
AI45014	cslt-15-stk02	NC20 Stockpile	<0.001	-
AI45015	cslt-15-28	NC20	<0.001	-
AI45016	cslt-15-29	NC20	<0.001	-
AI45017	cslt-15-30	NC20	<0.001	-
AI45018	cslt-15-56	NC20	<0.001	-
AI45019	cslt-15-57	NC20	<0.001	-

All tests undertaken between 02-Apr-2013 and 4-Apr-2013

BAM Nuttall Ltd
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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 32 samples
received 21 March 2013
35875-002 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
05 April 2013

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
AI45020	cslt-15-58	NC20	<0.001	-
AI45021	cslt-15-59	NC20	<0.001	-
AI45022	cslt-15-60	NC20	<0.001	-
AI45023	cslt-15-11	NC20	<0.001	-
AI45024	cslt-15-14	NC20	<0.001	-
AI45025	cslt-15-41	NC20	<0.001	-
AI45026	cslt-15-44	NC20	<0.001	-
AI45027	cslt-15-84	NC20	<0.001	-
AI45028	cslt-15-85	NC20	<0.001	-
AI45029	cslt-15-86	NC20	<0.001	-
AI45030	cslt-15-87	NC20	<0.001	-
AI45031	cslt-15-88	NC20	<0.001	-
AI45032	cslt-15-89	NC20	<0.001	-
AI45033	cslt-15-90	NC20	<0.001	-
AI45034	cslt-15-91	NC20	<0.001	-
AI45035	cslt-15-92	NC20	<0.001	-

The detection limit for this method is 0.001%

[redacted]

All tests undertaken between 02-Apr-2013 and 4-Apr-2013

BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 1 sample
received 30 May 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Chemtest
The right chemistry to deliver results

Report Date
07 June 2013

Login Batch No					**231234**
Chemtest LIMS ID					AI75547
Sample ID					NC20
Sample No					cslt-15-94
Sampling Date					23/5/2013
Depth					0.1m
Matrix					*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U	5.4
1300	Cyanide (free)	57125	mg l-¹	U	< 0.05
1220	Sulfate	14808798	mg l-¹	U	120
1450	Arsenic	7440382	µg l-¹	U	4.2
	Cadmium	7440439	µg l-¹	U	<0.080
	Copper	7440508	µg l-¹	U	6.6
	Mercury	7439976	µg l-¹	U	1.2
	Nickel	7440020	µg l-¹	U	1.5
	Lead	7439921	µg l-¹	U	<1.0
	Selenium	7782492	µg l-¹	U	3.2
	Zinc	7440666	µg l-¹	U	3.5
1490	Chromium (hexavalent)	18540299	µg l-¹	U	<20
1700	Naphthalene	91203	µg l-¹	U	<0.1
	Acenaphthylene	208968	µg l-¹	U	<0.1
	Acenaphthene	83329	µg l-¹	U	<0.1
	Fluorene	86737	µg l-¹	U	<0.1
	Phenanthrene	85018	µg l-¹	U	2.7
	Anthracene	120127	µg l-¹	U	0.4
	Fluoranthene	206440	µg l-¹	U	5.8
	Pyrene	129000	µg l-¹	U	6.3
	Benzo[a]anthracene	56553	µg l-¹	U	3.1
	Chrysene	218019	µg l-¹	U	3.5
	Benzo[b]fluoranthene	205992	µg l-¹	U	4.2
	Benzo[k]fluoranthene	207089	µg l-¹	U	2.9

All tests undertaken between 31/05/2013 and 07/06/2013

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 1 sample
received 30 May 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
07 June 2013

					231234
					AI75547
					NC20
					cslt-15-94
					23/5/2013
					0.1m
					LEACHATE
1700	Benzo[a]pyrene	50328	µg l-¹	U	3.8
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	1.5
	Benzo[g,h,]perylene	191242	µg l-¹	U	1.5
	Total (of 16) PAHs		µg l-¹	U	36
1920	Phenols (total)		mg l-¹	N	< 0.03

All tests undertaken between 31/05/2013 and 07/06/2013

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 4 samples
received 30 May 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
07 June 2013

Login Batch No					**231234**		
Chemtest LIMS ID					AI75544	AI75545	AI75546
Sample ID					NC20	NC20	NC20
Sample No					cslt-15-93	cslt-15-94	cslt-15-95
Sampling Date					23/5/2013	23/5/2013	23/5/2013
Depth					0.1m	0.1m	0.1m
Matrix					*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	51	34	42
	Cadmium	7440439	mg kg-¹	M	0.73	0.91	0.31
	Mercury	7439976	mg kg-¹	M	3.8	4.1	3.9
	Nickel	7440020	mg kg-¹	M	33	23	23
	Lead	7439921	mg kg-¹	M	1000	810	1100
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	2.2	2.5	2.6
	TPH aromatic >C16-C21		mg kg-¹	M	6.9	4.2	9.5
	TPH aromatic >C21-C35		mg kg-¹	M	19	14	23
	TPH aromatic >C35-C44		mg kg-¹	N	1.6	< 1	1.5

All tests undertaken between 31/05/2013 and 07/06/2013

* Accreditation status

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BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 4 samples
received 30 May 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
07 June 2013

					231234		
					AI75544	AI75545	AI75546
					NC20	NC20	NC20
					cslt-15-93	cslt-15-94	cslt-15-95
					23/5/2013	23/5/2013	23/5/2013
					0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*
2675	Total Petroleum Hydrocarbons		mg kg-¹	N	30	22	36
2700	Naphthalene	91203	mg kg-¹	M	0.66	0.4	0.37
	Acenaphthylene	208968	mg kg-¹	M	0.51	0.29	0.31
	Acenaphthene	83329	mg kg-¹	M	0.32	0.14	0.5
	Fluorene	86737	mg kg-¹	M	0.1	< 0.1	0.21
	Phenanthrene	85018	mg kg-¹	M	1.3	1.5	3.3
	Anthracene	120127	mg kg-¹	M	0.46	0.5	0.84
	Fluoranthene	206440	mg kg-¹	M	2	2.7	5.7
	Pyrene	129000	mg kg-¹	M	1.7	2.3	4.9
	Benzo[a]anthracene	56553	mg kg-¹	M	1	1.3	2.7
	Chrysene	218019	mg kg-¹	M	1.4	1.6	3.3
	Benzo[b]fluoranthene	205992	mg kg-¹	M	1.8	1.8	3.6
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.88	0.98	2.2
	Benzo[a]pyrene	50328	mg kg-¹	M	1.6	1.7	3.5
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.24	0.17	0.55
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	1	1.1	2.3
	Benzo[g,h,]perylene	191242	mg kg-¹	M	1.5	1.3	2.8
	Total (of 16) PAHs		mg kg-¹	M	16	18	37
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20
	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0

All tests undertaken between 31/05/2013 and 07/06/2013

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 4 samples
received 30 May 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
07 June 2013

					231234		
					AI75544	AI75545	AI75546
					NC20	NC20	NC20
					cslt-15-93	cslt-15-94	cslt-15-95
					23/5/2013	23/5/2013	23/5/2013
					0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0

All tests undertaken between 31/05/2013 and 07/06/2013

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 4 samples
received 30 May 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
07 June 2013

					231234		
					AI75544	AI75545	AI75546
					NC20	NC20	NC20
					cslt-15-93	cslt-15-94	cslt-15-95
					23/5/2013	23/5/2013	23/5/2013
					0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0

All tests undertaken between 31/05/2013 and 07/06/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 4 samples
received 30 May 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
07 June 2013

					231234		
					AI75544	AI75545	AI75546
					NC20	NC20	NC20
					cslt-15-93	cslt-15-94	cslt-15-95
					23/5/2013	23/5/2013	23/5/2013
					0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3

All tests undertaken between 31/05/2013 and 07/06/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 3 samples
received 30 May 2013
35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
07 June 2013

Login Batch No: 231234

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI75544	NC20	cslt-15-93	0.1	-	No Asbestos Detected
AI75545	NC20	cslt-15-94	0.1	-	No Asbestos Detected
AI75546	NC20	cslt-15-95	0.1	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
Chemtest ID	Sample ID	Sample Desc		
AI75544	NC20	cslt-15-93	<0.001	-
AI75545	NC20	cslt-15-94	<0.001	-
AI75546	NC20	cslt-15-95	<0.001	-

The detection limit for this method is 0.001%

[redacted]

All tests undertaken between 07-Jun-2013 and 7-Jun-2013

LIMS sample ID range AI75544 to AI75546

BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 1 sample
received 4 June 2013

35875-003 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 June 2013

Login Batch No					**231549**
Chemtest LIMS ID					AI77331
Sample ID					cslt-15-96
Sample No					NC20
Sampling Date					29/5/2013
Depth					0.1m
Matrix					*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5
2450	Arsenic	7440382	mg kg-¹	M	13
	Cadmium	7440439	mg kg-¹	M	<0.10
	Mercury	7439976	mg kg-¹	M	0.46
	Nickel	7440020	mg kg-¹	M	24
	Lead	7439921	mg kg-¹	M	190
	Selenium	7782492	mg kg-¹	M	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1
	TPH aromatic >C21-C35		mg kg-¹	M	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1

All tests undertaken between 05/06/2013 and 12/06/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

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LABORATORY TEST REPORT

Results of analysis of 1 sample
received 4 June 2013

35875-003 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 June 2013

					231549
					AI77331
					cslt-15-96
					NC20
					29/5/2013
					0.1m
					SOIL
2675	Total Petroleum Hydrocarbons		mg kg-1	N	< 10
2700	Naphthalene	91203	mg kg-1	M	< 0.1
	Acenaphthylene	208968	mg kg-1	M	0.15
	Acenaphthene	83329	mg kg-1	M	0.18
	Fluorene	86737	mg kg-1	M	0.12
	Phenanthrene	85018	mg kg-1	M	0.72
	Anthracene	120127	mg kg-1	M	0.43
	Fluoranthene	206440	mg kg-1	M	1.5
	Pyrene	129000	mg kg-1	M	1.4
	Benzo[a]anthracene	56553	mg kg-1	M	1.1
	Chrysene	218019	mg kg-1	M	1.1
	Benzo[b]fluoranthene	205992	mg kg-1	M	1.3
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.76
	Benzo[a]pyrene	50328	mg kg-1	M	1.2
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	0.12
	Benzo[g,h,]perylene	191242	mg kg-1	M	0.26
	Total (of 16) PAHs		mg kg-1	M	10
2760	Methyl tert-butylether	1634044	µg kg-1	N	< 1.0
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	U	< 1.0

All tests undertaken between 05/06/2013 and 12/06/2013

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 1 sample
received 4 June 2013

35875-003 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 June 2013

					231549
					AI77331
					cslt-15-96
					NC20
					29/5/2013
					0.1m
					SOIL
2760	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10
	Toluene	108883	µg kg-¹	M	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10
	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0

All tests undertaken between 05/06/2013 and 12/06/2013

* Accreditation status

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BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 1 sample
received 4 June 2013

35875-003 - QEOP-CS - Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
12 June 2013

					231549
					AI77331
					cslt-15-96
					NC20
					29/5/2013
					0.1m
					SOIL
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0

All tests undertaken between 05/06/2013 and 12/06/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 1 sample
received 4 June 2013

35875-003 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 June 2013

					231549
					AI77331
					cslt-15-96
					NC20
					29/5/2013
					0.1m
					SOIL
2920	Phenols (total)		mg kg-¹	N	<0.3

All tests undertaken between 05/06/2013 and 12/06/2013

* Accreditation status

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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 1 sample
received 4 June 2013
35875-003 - QEOP-CS - Queen Elizabeth Olympic Park

Report Date
12 June 2013

Login Batch No: 231549

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI77331	cslt-15-96	NC20	0.1	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
Chemtest ID	Sample ID	Sample Desc		
AI77331	cslt-15-96	NC20	<0.001	-

The detection limit for this method is 0.001%

[redacted]

All tests undertaken between 12-Jun-2013 and 12-Jun-2013

BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 10 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Report Date
24 June 2013

Login Batch No						**232472**					
Chemtest LIMS ID						AI83091	AI83092	AI83093	AI83094	AI83095	AI83096
Sample ID						cslt-15-200	cslt-15-202	cslt-15-204	cslt-15-206	cslt-15-208	cslt-15-210
Sample No						NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date						10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
Depth						0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
Matrix						*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*							
1300	Cyanide (free)	57125	mg l-¹	U		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1220	Sulfate	14808798	mg l-¹	U		82	84	77	87	100	110
1450	Arsenic	7440382	µg l-¹	U		5.2	4.9	11	4.3	4.1	4.8
	Cadmium	7440439	µg l-¹	U		<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
	Copper	7440508	µg l-¹	U		3.5	3.6	4.7	3.8	3.8	3.9
	Mercury	7439976	µg l-¹	U		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Nickel	7440020	µg l-¹	U		7.2	9.6	15	8.7	10	9.5
	Lead	7439921	µg l-¹	U		<1.0	<1.0	2.0	<1.0	<1.0	<1.0
	Selenium	7782492	µg l-¹	U		<1.0	<1.0	1.2	<1.0	<1.0	<1.0
	Zinc	7440666	µg l-¹	U		6.4	6.8	9.6	6.5	7.9	7.2
1490	Chromium (hexavalent)	18540299	µg l-¹	U		<20	<20	<20	<20	<20	<20
1700	Naphthalene	91203	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthylene	208968	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthene	83329	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Fluorene	86737	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Phenanthrene	85018	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Anthracene	120127	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Fluoranthene	206440	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Pyrene	129000	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo[a]anthracene	56553	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Chrysene	218019	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo[b]fluoranthene	205992	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	U		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

All tests undertaken between 17/06/2013 and 24/06/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

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LABORATORY TEST REPORT

Results of analysis of 10 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Report Date
24 June 2013

Login Batch No					**232472**			
Chemtest LIMS ID					AI83097	AI83098	AI83099	AI83100
Sample ID					cslt-15-212	cslt-15-214	cslt-15-216	cslt-15-218
Sample No					NC20	NC20	NC20	NC20
Sampling Date					10/6/2013	10/6/2013	11/6/2013	11/6/2013
Depth					0.1m	0.1m	0.1m	0.1m
Matrix					*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
1300	Cyanide (free)	57125	mg l-¹	U	< 0.05	< 0.05	< 0.05	< 0.05
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U	0.05	0.04	< 0.01	0.04
1220	Sulfate	14808798	mg l-¹	U	89	81	97	76
1450	Arsenic	7440382	µg l-¹	U	5.9	5.7	4.4	5.3
	Cadmium	7440439	µg l-¹	U	<0.080	<0.080	<0.080	<0.080
	Copper	7440508	µg l-¹	U	4.9	4.1	4.0	4.6
	Mercury	7439976	µg l-¹	U	<0.50	<0.50	<0.50	<0.50
	Nickel	7440020	µg l-¹	U	17	15	15	14
	Lead	7439921	µg l-¹	U	<1.0	<1.0	<1.0	1.2
	Selenium	7782492	µg l-¹	U	1.2	1.2	<1.0	<1.0
	Zinc	7440666	µg l-¹	U	7.9	7.0	7.8	7.6
1490	Chromium (hexavalent)	18540299	µg l-¹	U	<20	<20	<20	<20
1700	Naphthalene	91203	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Acenaphthylene	208968	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Acenaphthene	83329	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Fluorene	86737	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Phenanthrene	85018	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Anthracene	120127	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Fluoranthene	206440	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Pyrene	129000	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Benzo[a]anthracene	56553	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Chrysene	218019	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Benzo[b]fluoranthene	205992	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	U	<0.1	<0.1	<0.1	<0.1

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

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LABORATORY TEST REPORT

Results of analysis of 10 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Report Date
24 June 2013

					232472					
					AI83091	AI83092	AI83093	AI83094	AI83095	AI83096
					cslt-15-200	cslt-15-202	cslt-15-204	cslt-15-206	cslt-15-208	cslt-15-210
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					LEACHATE	*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*	*LEACHATE*
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Total (of 16) PAHs		µg l-¹	U	<2	<2	<2	<2	<2	<2
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03

All tests undertaken between 17/06/2013 and 24/06/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
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Camberley
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LABORATORY TEST REPORT

Results of analysis of 10 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Report Date
24 June 2013

					232472			
					AI83097	AI83098	AI83099	AI83100
					cslt-15-212	cslt-15-214	cslt-15-216	cslt-15-218
					NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	11/6/2013	11/6/2013
					0.1m	0.1m	0.1m	0.1m
					LEACHATE	*LEACHATE*	*LEACHATE*	*LEACHATE*
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1	<0.1	<0.1	<0.1
	Total (of 16) PAHs		µg l-¹	U	<2	<2	<2	<2
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03	< 0.03	< 0.03

BAM Nuttall Ltd
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Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 36 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

Login Batch No					232472					
Chemtest LIMS ID					AI83064	AI83065	AI83066	AI83067	AI83068	AI83069
Sample ID					cslt-15-200	cslt-15-201	cslt-15-202	cslt-15-203	cslt-15-204	cslt-15-205
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
Depth					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	40	27	24	23	30	29
	Cadmium	7440439	mg kg-¹	M	0.22	0.17	0.14	0.19	0.24	0.23
	Copper	7440508	mg kg-¹	M	24	17	15	17	21	20
	Mercury	7439976	mg kg-¹	M	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Nickel	7440020	mg kg-¹	M	24	18	16	19	24	22
	Lead	7439921	mg kg-¹	M	38	21	18	19	25	22
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	Zinc	7440666	mg kg-¹	M	64	49	45	52	60	57
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	8.7

All tests undertaken between 17/06/2013 and 24/06/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
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GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 36 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

Login Batch No					**232472**						
Chemtest LIMS ID					AI83070	AI83071	AI83072	AI83073	AI83074	AI83075
Sample ID					cslt-15-206	cslt-15-207	cslt-15-208	cslt-15-209	cslt-15-210	cslt-15-211
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
Depth					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	23	31	25	32	37	20
	Cadmium	7440439	mg kg-¹	M	0.25	0.27	0.27	0.32	0.33	0.34
	Copper	7440508	mg kg-¹	M	19	20	21	23	23	18
	Mercury	7439976	mg kg-¹	M	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Nickel	7440020	mg kg-¹	M	20	21	23	24	23	18
	Lead	7439921	mg kg-¹	M	21	22	24	26	26	20
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	Zinc	7440666	mg kg-¹	M	54	57	63	65	62	50
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
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LABORATORY TEST REPORT

Results of analysis of 36 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

Login Batch No					**232472**						
	Chemtest LIMS ID				AI83076	AI83077	AI83078	AI83079	AI83080	AI83081
	Sample ID				cslt-15-212	cslt-15-213	cslt-15-214	cslt-15-215	cslt-15-216	cslt-15-217
	Sample No				NC20	NC20	NC20	NC20	NC20	NC20
	Sampling Date				10/6/2013	10/6/2013	10/6/2013	11/6/2013	11/6/2013	11/6/2013
	Depth				0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
	Matrix				*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	17	23	24	22	20	19
	Cadmium	7440439	mg kg-¹	M	0.23	0.28	0.25	0.23	0.26	0.32
	Copper	7440508	mg kg-¹	M	19	22	20	19	20	19
	Mercury	7439976	mg kg-¹	M	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Nickel	7440020	mg kg-¹	M	20	23	23	21	22	21
	Lead	7439921	mg kg-¹	M	21	25	24	23	23	22
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	Zinc	7440666	mg kg-¹	M	53	63	59	56	59	55
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1

* Accreditation status

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BAM Nuttall Ltd
St James House
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LABORATORY TEST REPORT

Results of analysis of 36 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

Login Batch No					**232472**						
Chemtest LIMS ID					AI83082	AI83083	AI83084	AI83085	AI83086	AI83087
Sample ID					cslt-15-218	cslt-15-219	cslt-15-97	cslt-15-98	cslt-15-99	cslt-15-100
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					11/6/2013	11/6/2013	11/6/2013	11/6/2013	11/6/2013	11/6/2013
Depth					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	24	19	17	32	29	19
	Cadmium	7440439	mg kg-¹	M	0.29	0.28	0.14	0.32	0.15	0.11
	Copper	7440508	mg kg-¹	M	22	16				
	Mercury	7439976	mg kg-¹	M	<0.10	<0.10	0.42	0.54	1.8	0.70
	Nickel	7440020	mg kg-¹	M	26	18	30	34	37	33
	Lead	7439921	mg kg-¹	M	27	18	200	210	230	180
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	Zinc	7440666	mg kg-¹	M	64	47				
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	6.2	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	18	27	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	4.5	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	12	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	5.2	1.6	39	6.5	8.7	7.6

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
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GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 36 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

Login Batch No						**232472**	
Chemtest LIMS ID						AI83088	AI83089
Sample ID						cslt-15-101	cslt-15-102
Sample No						NC20	NC20
Sampling Date						11/6/2013	11/6/2013
Depth						0.1m	0.1m
Matrix						*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2300	Cyanide (free)	57125	mg kg-¹	M		<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N		<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M		13	25
	Cadmium	7440439	mg kg-¹	M		0.15	0.58
	Copper	7440508	mg kg-¹	M			
	Mercury	7439976	mg kg-¹	M		<0.10	<0.10
	Nickel	7440020	mg kg-¹	M		22	25
	Lead	7439921	mg kg-¹	M		110	65
	Selenium	7782492	mg kg-¹	M		<0.20	<0.20
	Zinc	7440666	mg kg-¹	M			
2675	TPH aliphatic >C5-C6		mg kg-¹	N		< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N		< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M		< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M		1.9	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M		8.7	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M		12	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N		< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N		< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N		< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N		< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M		< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M		< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M		3.7	5.5

* Accreditation status

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BAM Nuttall Ltd
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Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 36 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

					232472					
					AI83064	AI83065	AI83066	AI83067	AI83068	AI83069
					cslt-15-200	cslt-15-201	cslt-15-202	cslt-15-203	cslt-15-204	cslt-15-205
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	TPH aromatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	21
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	1.7
	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10	< 10	< 10	< 10	< 10	31
2700	Naphthalene	91203	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthene	83329	mg kg-¹	M	0.16	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluorene	86737	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Phenanthrene	85018	mg kg-¹	M	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Anthracene	120127	mg kg-¹	M	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluoranthene	206440	mg kg-¹	M	0.53	< 0.1	< 0.1	< 0.1	< 0.1	0.2
	Pyrene	129000	mg kg-¹	M	0.36	< 0.1	< 0.1	< 0.1	< 0.1	0.15
	Benzo[a]anthracene	56553	mg kg-¹	M	0.21	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Chrysene	218019	mg kg-¹	M	0.23	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.51	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[a]pyrene	50328	mg kg-¹	M	0.24	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[g,h,]perylene	191242	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total (of 16) PAHs		mg kg-¹	M	3.2	< 2	< 2	< 2	< 2	< 2
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20

All tests undertaken between 17/06/2013 and 24/06/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 36 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

					232472					
					AI83070	AI83071	AI83072	AI83073	AI83074	AI83075
					cslt-15-206	cslt-15-207	cslt-15-208	cslt-15-209	cslt-15-210	cslt-15-211
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	TPH aromatic >C21-C35		mg kg-1	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C35-C44		mg kg-1	N	< 1	< 1	< 1	< 1	< 1	< 1
	Total Petroleum Hydrocarbons		mg kg-1	N	< 10	< 10	< 10	< 10	< 10	< 10
2700	Naphthalene	91203	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthene	83329	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluorene	86737	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Phenanthrene	85018	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	0.13	< 0.1
	Anthracene	120127	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	0.11	< 0.1
	Fluoranthene	206440	mg kg-1	M	< 0.1	< 0.1	< 0.1	0.12	0.14	0.24
	Pyrene	129000	mg kg-1	M	< 0.1	< 0.1	< 0.1	0.13	0.12	0.13
	Benzo[a]anthracene	56553	mg kg-1	M	< 0.1	< 0.1	< 0.1	0.28	< 0.1	< 0.1
	Chrysene	218019	mg kg-1	M	< 0.1	< 0.1	< 0.1	0.22	< 0.1	< 0.1
	Benzo[b]fluoranthene	205992	mg kg-1	M	< 0.1	< 0.1	< 0.1	1.2	< 0.1	< 0.1
	Benzo[k]fluoranthene	207089	mg kg-1	M	< 0.1	< 0.1	< 0.1	1.5	< 0.1	< 0.1
	Benzo[a]pyrene	50328	mg kg-1	M	< 0.1	< 0.1	< 0.1	0.9	< 0.1	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[g,h,]perylene	191242	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total (of 16) PAHs		mg kg-1	M	< 2	< 2	< 2	4.4	< 2	< 2
2760	Methyl tert-butylether	1634044	µg kg-1	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20

* Accreditation status

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BAM Nuttall Ltd
St James House
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Camberley
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LABORATORY TEST REPORT

Results of analysis of 36 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

					232472					
					AI83076	AI83077	AI83078	AI83079	AI83080	AI83081
					cslt-15-212	cslt-15-213	cslt-15-214	cslt-15-215	cslt-15-216	cslt-15-217
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	11/6/2013	11/6/2013	11/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	TPH aromatic >C21-C35		mg kg-1	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C35-C44		mg kg-1	N	< 1	< 1	< 1	< 1	< 1	< 1
	Total Petroleum Hydrocarbons		mg kg-1	N	< 10	< 10	< 10	< 10	< 10	< 10
2700	Naphthalene	91203	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthene	83329	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluorene	86737	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Phenanthrene	85018	mg kg-1	M	0.19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Anthracene	120127	mg kg-1	M	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Fluoranthene	206440	mg kg-1	M	0.28	< 0.1	0.29	0.22	0.12	0.13
	Pyrene	129000	mg kg-1	M	0.19	0.15	0.16	0.14	< 0.1	0.11
	Benzo[a]anthracene	56553	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Chrysene	218019	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[b]fluoranthene	205992	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[k]fluoranthene	207089	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[a]pyrene	50328	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo[g,h,]perylene	191242	mg kg-1	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Total (of 16) PAHs		mg kg-1	M	< 2	< 2	< 2	< 2	< 2	< 2
2760	Methyl tert-butylether	1634044	µg kg-1	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20

BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 36 samples
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QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

					232472					
					AI83082	AI83083	AI83084	AI83085	AI83086	AI83087
					cslt-15-218	cslt-15-219	cslt-15-97	cslt-15-98	cslt-15-99	cslt-15-100
					NC20	NC20	NC20	NC20	NC20	NC20
					11/6/2013	11/6/2013	11/6/2013	11/6/2013	11/6/2013	11/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	TPH aromatic >C21-C35		mg kg-1	M	30	10	93	15	23	15
	TPH aromatic >C35-C44		mg kg-1	N	< 1	< 1	7.2	< 1	< 1	< 1
	Total Petroleum Hydrocarbons		mg kg-1	N	36	36	180	22	32	23
2700	Naphthalene	91203	mg kg-1	M	< 0.1	< 0.1	0.14	0.22	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-1	M	< 0.1	< 0.1	0.24	0.24	0.2	0.21
	Acenaphthene	83329	mg kg-1	M	< 0.1	< 0.1	0.38	0.36	0.76	0.23
	Fluorene	86737	mg kg-1	M	< 0.1	< 0.1	0.3	0.45	0.42	< 0.1
	Phenanthrene	85018	mg kg-1	M	< 0.1	0.16	3.6	3.9	3.7	1.2
	Anthracene	120127	mg kg-1	M	< 0.1	0.14	1.2	1.4	1.4	0.56
	Fluoranthene	206440	mg kg-1	M	0.15	0.23	4.7	5.7	5.4	2
	Pyrene	129000	mg kg-1	M	0.13	< 0.1	4	4.6	4.8	1.9
	Benzo[a]anthracene	56553	mg kg-1	M	< 0.1	< 0.1	2.1	2.2	2.6	0.94
	Chrysene	218019	mg kg-1	M	< 0.1	< 0.1	2.8	2.5	2.9	1.1
	Benzo[b]fluoranthene	205992	mg kg-1	M	< 0.1	< 0.1	2.5	3.1	3.5	1.7
	Benzo[k]fluoranthene	207089	mg kg-1	M	< 0.1	< 0.1	1.9	1.9	2.6	0.93
	Benzo[a]pyrene	50328	mg kg-1	M	< 0.1	< 0.1	1.8	2.4	3.5	1.2
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	< 0.1	< 0.1	0.19	0.3	0.29	0.11
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	< 0.1	< 0.1	1.3	1.4	1.6	0.57
	Benzo[g,h,]perylene	191242	mg kg-1	M	< 0.1	< 0.1	1.5	1.6	1.9	1.3
	Total (of 16) PAHs		mg kg-1	M	< 2	< 2	29	32	36	14
2760	Methyl tert-butylether	1634044	µg kg-1	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20	< 20	< 20	< 20	< 20	< 20

* Accreditation status

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BAM Nuttall Ltd
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Camberley
GU15 3XW

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LABORATORY TEST REPORT

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QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

					232472	
					AI83088	AI83089
					cslt-15-101	cslt-15-102
					NC20	NC20
					11/6/2013	11/6/2013
					0.1m	0.1m
					SOIL	*SOIL*
2675	TPH aromatic >C21-C35		mg kg-¹	M	8.3	14
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1
	Total Petroleum Hydrocarbons		mg kg-¹	N	35	20
2700	Naphthalene	91203	mg kg-¹	M	0.13	0.1
	Acenaphthylene	208968	mg kg-¹	M	0.14	0.26
	Acenaphthene	83329	mg kg-¹	M	0.17	0.22
	Fluorene	86737	mg kg-¹	M	< 0.1	0.18
	Phenanthrene	85018	mg kg-¹	M	0.58	2.3
	Anthracene	120127	mg kg-¹	M	0.47	0.5
	Fluoranthene	206440	mg kg-¹	M	0.82	3.5
	Pyrene	129000	mg kg-¹	M	0.64	3
	Benzo[a]anthracene	56553	mg kg-¹	M	0.34	1.4
	Chrysene	218019	mg kg-¹	M	0.47	1.6
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.76	2.2
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.56	1.4
	Benzo[a]pyrene	50328	mg kg-¹	M	0.91	1.7
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	< 0.1	0.25
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.17	1.2
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.93	1.9
	Total (of 16) PAHs		mg kg-¹	M	7.1	22
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20

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					232472					
					AI83064	AI83065	AI83066	AI83067	AI83068	AI83069
					cslt-15-200	cslt-15-201	cslt-15-202	cslt-15-203	cslt-15-204	cslt-15-205
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10

All tests undertaken between 17/06/2013 and 24/06/2013

* Accreditation status

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LABORATORY TEST REPORT

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24 June 2013

					232472					
					AI83070	AI83071	AI83072	AI83073	AI83074	AI83075
					cslt-15-206	cslt-15-207	cslt-15-208	cslt-15-209	cslt-15-210	cslt-15-211
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10

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LABORATORY TEST REPORT

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					232472					
					AI83076	AI83077	AI83078	AI83079	AI83080	AI83081
					cslt-15-212	cslt-15-213	cslt-15-214	cslt-15-215	cslt-15-216	cslt-15-217
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	11/6/2013	11/6/2013	11/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10

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					232472					
					AI83082	AI83083	AI83084	AI83085	AI83086	AI83087
					cslt-15-218	cslt-15-219	cslt-15-97	cslt-15-98	cslt-15-99	cslt-15-100
					NC20	NC20	NC20	NC20	NC20	NC20
					11/6/2013	11/6/2013	11/6/2013	11/6/2013	11/6/2013	11/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10

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					232472	
					AI83088	AI83089
					cslt-15-101	cslt-15-102
					NC20	NC20
					11/6/2013	11/6/2013
					0.1m	0.1m
					SOIL	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10

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					232472					
					AI83064	AI83065	AI83066	AI83067	AI83068	AI83069
					cslt-15-200	cslt-15-201	cslt-15-202	cslt-15-203	cslt-15-204	cslt-15-205
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50

All tests undertaken between 17/06/2013 and 24/06/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

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					232472					
					AI83070	AI83071	AI83072	AI83073	AI83074	AI83075
					cslt-15-206	cslt-15-207	cslt-15-208	cslt-15-209	cslt-15-210	cslt-15-211
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50

BAM Nuttall Ltd
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Knoll Road
Camberley
GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 36 samples
received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

					232472					
					AI83076	AI83077	AI83078	AI83079	AI83080	AI83081
					cslt-15-212	cslt-15-213	cslt-15-214	cslt-15-215	cslt-15-216	cslt-15-217
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	11/6/2013	11/6/2013	11/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50

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LABORATORY TEST REPORT

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QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

					232472					
					AI83082	AI83083	AI83084	AI83085	AI83086	AI83087
					cslt-15-218	cslt-15-219	cslt-15-97	cslt-15-98	cslt-15-99	cslt-15-100
					NC20	NC20	NC20	NC20	NC20	NC20
					11/6/2013	11/6/2013	11/6/2013	11/6/2013	11/6/2013	11/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50

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LABORATORY TEST REPORT

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received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
24 June 2013

					232472	
					AI83088	AI83089
					cslt-15-101	cslt-15-102
					NC20	NC20
					11/6/2013	11/6/2013
					0.1m	0.1m
					SOIL	*SOIL*
2760	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50

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LABORATORY TEST REPORT

Results of analysis of 36 samples
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Report Date
24 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

					232472					
					AI83064	AI83065	AI83066	AI83067	AI83068	AI83069
					cslt-15-200	cslt-15-201	cslt-15-202	cslt-15-203	cslt-15-204	cslt-15-205
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

All tests undertaken between 17/06/2013 and 24/06/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

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Report Date
24 June 2013

					232472					
					AI83070	AI83071	AI83072	AI83073	AI83074	AI83075
					cslt-15-206	cslt-15-207	cslt-15-208	cslt-15-209	cslt-15-210	cslt-15-211
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013	10/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

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LABORATORY TEST REPORT

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Report Date
24 June 2013

					232472					
					AI83076	AI83077	AI83078	AI83079	AI83080	AI83081
					cslt-15-212	cslt-15-213	cslt-15-214	cslt-15-215	cslt-15-216	cslt-15-217
					NC20	NC20	NC20	NC20	NC20	NC20
					10/6/2013	10/6/2013	10/6/2013	11/6/2013	11/6/2013	11/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

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LABORATORY TEST REPORT

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received 14 June 2013

QEOP-CS - Queen Elizabeth Olympic Park - 35875-002

Report Date
24 June 2013

					232472					
					AI83082	AI83083	AI83084	AI83085	AI83086	AI83087
					cslt-15-218	cslt-15-219	cslt-15-97	cslt-15-98	cslt-15-99	cslt-15-100
					NC20	NC20	NC20	NC20	NC20	NC20
					11/6/2013	11/6/2013	11/6/2013	11/6/2013	11/6/2013	11/6/2013
					0.1m	0.1m	0.1m	0.1m	0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

* Accreditation status

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Report Date
24 June 2013

					232472	
					AI83088	AI83089
					cslt-15-101	cslt-15-102
					NC20	NC20
					11/6/2013	11/6/2013
					0.1m	0.1m
					SOIL	*SOIL*
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3

* Accreditation status

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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 10 samples
received 20 June 2013
Queen Elizabeth Olympic Park - 35875-002

Report Date
22 July 2013

Login Batch No: 232936

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI85902	cslt-wutstk-12	NC29		-	No Asbestos Detected
AI85903	cslt-wutstk-13	NC29		-	No Asbestos Detected
AI85904	cslt-wutstk-14	NC29		-	No Asbestos Detected
AI85905	cslt-wutstk-15	NC29		-	No Asbestos Detected
AI85906	cslt-wutstk-16	NC29		-	No Asbestos Detected
AI85907	cslt-wutstk-17	NC29		-	No Asbestos Detected
AI85908	cslt-wutstk-18	NC29		-	No Asbestos Detected
AI85909	cslt-wutstk-19	NC29		-	No Asbestos Detected
AI85910	cslt-wutstk-20	NC29		-	No Asbestos Detected
AI85911	cslt-wutstk-21	NC29		-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
Chemtest ID	Sample ID	Sample Desc		
AI85902	cslt-wutstk-12	NC29	<0.001	-
AI85903	cslt-wutstk-13	NC29	<0.001	-
AI85904	cslt-wutstk-14	NC29	<0.001	-
AI85905	cslt-wutstk-15	NC29	<0.001	-
AI85906	cslt-wutstk-16	NC29	<0.001	-
AI85907	cslt-wutstk-17	NC29	<0.001	-
AI85908	cslt-wutstk-18	NC29	<0.001	-
AI85909	cslt-wutstk-19	NC29	<0.001	-
AI85910	cslt-wutstk-20	NC29	<0.001	-
AI85911	cslt-wutstk-21	NC29	<0.001	-

The detection limit for this method is 0.001%

[redacted]

All tests undertaken between 28-Jun-2013 and 28-Jun-2013

BAM Nuttall Ltd
St James House
Knoll Road
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GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 3 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Report Date
02 July 2013

Login Batch No					**232943**		
Chemtest LIMS ID					AI86165	AI86166	AI86167
Sample ID					cslt-22-110	cslt-29-301	cslt-31-303
Sample No					NC20	NC20	NC20
Sampling Date					19/6/2013	19/6/2013	19/6/2013
Depth						0.1m	0.1m
Matrix					*LEACHATE*	*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
1300	Cyanide (free)	57125	mg l-¹	U	< 0.05	< 0.05	< 0.05
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U	0.07	0.03	0.09
1220	Sulfate	14808798	mg l-¹	U	71	3.5	12
1450	Arsenic	7440382	µg l-¹	U	4.8	<1.0	<1.0
	Cadmium	7440439	µg l-¹	U	<0.080	<0.080	<0.080
	Copper	7440508	µg l-¹	U	<1.0	<1.0	<1.0
	Mercury	7439976	µg l-¹	U	<0.50	<0.50	<0.50
	Nickel	7440020	µg l-¹	U	4.6	<1.0	1.6
	Lead	7439921	µg l-¹	U	<1.0	<1.0	<1.0
	Selenium	7782492	µg l-¹	U	2.3	<1.0	<1.0
	Zinc	7440666	µg l-¹	U	4.0	<1.0	<1.0
1490	Chromium (hexavalent)	18540299	µg l-¹	U	<20	<20	<20
1700	Naphthalene	91203	µg l-¹	U	<0.1	<0.1	<0.1
	Acenaphthylene	208968	µg l-¹	U	<0.1	<0.1	<0.1
	Acenaphthene	83329	µg l-¹	U	<0.1	<0.1	<0.1
	Fluorene	86737	µg l-¹	U	<0.1	<0.1	<0.1
	Phenanthrene	85018	µg l-¹	U	<0.1	<0.1	<0.1
	Anthracene	120127	µg l-¹	U	<0.1	<0.1	<0.1
	Fluoranthene	206440	µg l-¹	U	<0.1	<0.1	<0.1
	Pyrene	129000	µg l-¹	U	<0.1	<0.1	<0.1
	Benzo[a]anthracene	56553	µg l-¹	U	<0.1	<0.1	<0.1
	Chrysene	218019	µg l-¹	U	<0.1	<0.1	<0.1
	Benzo[b]fluoranthene	205992	µg l-¹	U	<0.1	<0.1	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	U	<0.1	<0.1	<0.1

All tests undertaken between 21/06/2013 and 01/07/2013

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 3 samples
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Report Date
02 July 2013

					232943		
					AI86165	AI86166	AI86167
					cslt-22-110	cslt-29-301	cslt-31-303
					NC20	NC20	NC20
					19/6/2013	19/6/2013	19/6/2013
						0.1m	0.1m
					LEACHATE	*LEACHATE*	*LEACHATE*
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1	<0.1	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1	<0.1	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1	<0.1	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1	<0.1	<0.1
	Total (of 16) PAHs		µg l-¹	U	<2	<2	<2
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03	< 0.03

All tests undertaken between 21/06/2013 and 01/07/2013

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
02 July 2013

Login Batch No					**232943**						
Chemtest LIMS ID					AI86146	AI86147	AI86148	AI86149	AI86150	AI86151
Sample ID					cslt-15-103	cslt-15-118	cslt-16-104	cslt-17-105	cslt-18-106	cslt-19-107
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					11/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	15	16	14	22	9.3	13
	Cadmium	7440439	mg kg-¹	M	0.23	0.23	0.22	0.26	0.12	0.15
	Copper	7440508	mg kg-¹	M						
	Mercury	7439976	mg kg-¹	M	0.63	0.65	0.60	1.5	0.38	0.39
	Nickel	7440020	mg kg-¹	M	17	18	17	21	11	14
	Lead	7439921	mg kg-¹	M	170	470	190	400	140	150
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	Zinc	7440666	mg kg-¹	M						
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1 ¹	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1 ¹	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1 ¹	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1 ¹	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1 ¹	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1 ¹	< 1	19	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1 ¹	< 1	53	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1 ¹	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1 ¹	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1 ¹	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1 ¹	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1 ¹	< 1	< 1	< 1	1.4	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1 ¹	1.3	< 1	9.3	22	1.4
	TPH aromatic >C16-C21		mg kg-¹	M	3.6 ¹	3.6	13	60	87	4.3

¹The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

All tests undertaken between 21/06/2013 and 01/07/2013

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

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02 July 2013

Login Batch No					**232943**						
Chemtest LIMS ID					AI86152	AI86153	AI86154	AI86155	AI86156	AI86157
Sample ID					cslt-20-108	cslt-21-109	cslt-22-110	cslt-23-111	cslt-24-112	cslt-25-113
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
Depth										
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	16	14	12	11	17	27
	Cadmium	7440439	mg kg-¹	M	0.16	<0.10	0.18	<0.10	0.13	1.1
	Copper	7440508	mg kg-¹	M						
	Mercury	7439976	mg kg-¹	M	0.82	0.72	0.26	0.29	1.1	1.9
	Nickel	7440020	mg kg-¹	M	19	17	15	14	22	34
	Lead	7439921	mg kg-¹	M	300	230	72	120	340	1200
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	Zinc	7440666	mg kg-¹	M						
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	1.4	1.2	< 1	1.7	3.0	2.0
	TPH aromatic >C16-C21		mg kg-¹	M	5.1	5.8	2.9	6.4	8.8	9.9

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

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St James House
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LABORATORY TEST REPORT

Results of analysis of 22 samples
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Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
02 July 2013

Login Batch No					**232943**						
Chemtest LIMS ID					AI86158	AI86159	AI86160	AI86161	AI86162	AI86163
Sample ID					cslt-26-114	cslt-27-115	cslt-28-116	cslt-29-117	cslt-29-301	cslt-30-302
Sample No					NC20	NC20	NC20	NC20	NC20	NC20
Sampling Date					19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
Depth									0.1m	0.1m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	16	11	17	18	24	33
	Cadmium	7440439	mg kg-¹	M	0.24	0.13	0.32	0.15	<0.10	<0.10
	Copper	7440508	mg kg-¹	M				74	<5.0	<5.0
	Mercury	7439976	mg kg-¹	M	0.67	0.26	0.82	0.81	<0.10	<0.10
	Nickel	7440020	mg kg-¹	M	24	15	24	23	14	19
	Lead	7439921	mg kg-¹	M	260	75	170	150	5.5	5.9
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	Zinc	7440666	mg kg-¹	M				130	30	41
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1	< 1	< 1	< 1	< 1	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1	1.2	5.0	5.3	< 1	< 1

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

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BAM Nuttall Ltd
St James House
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LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Chemtest
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Report Date
02 July 2013

Login Batch No					**232943**
Chemtest LIMS ID					AI86164
Sample ID					cslt-31-303
Sample No					NC20
Sampling Date					19/6/2013
Depth					0.1m
Matrix					*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
2300	Cyanide (free)	57125	mg kg-¹	M	<0.5
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5
2450	Arsenic	7440382	mg kg-¹	M	28
	Cadmium	7440439	mg kg-¹	M	<0.10
	Copper	7440508	mg kg-¹	M	<5.0
	Mercury	7439976	mg kg-¹	M	<0.10
	Nickel	7440020	mg kg-¹	M	14
	Lead	7439921	mg kg-¹	M	<5.0
	Selenium	7782492	mg kg-¹	M	<0.20
	Zinc	7440666	mg kg-¹	M	31
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

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					232943					
					AI86146	AI86147	AI86148	AI86149	AI86150	AI86151
					cslt-15-103	cslt-15-118	cslt-16-104	cslt-17-105	cslt-18-106	cslt-19-107
					NC20	NC20	NC20	NC20	NC20	NC20
					11/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	TPH aromatic >C21-C35		mg kg-1	M	7.7 [1]	5.5	25	140	75	13
	TPH aromatic >C35-C44		mg kg-1	N	< 1 [1]	< 1	< 1	6.4	5.7	1.1
	Total Petroleum Hydrocarbons		mg kg-1	N	12 [1]	10	110	220	190	20
2700	Naphthalene	91203	mg kg-1	M	< 0.1	< 0.1	0.54	58	0.23	0.16
	Acenaphthylene	208968	mg kg-1	M	< 0.1	< 0.1	0.37	8.6	0.11	< 0.1
	Acenaphthene	83329	mg kg-1	M	< 0.1	< 0.1	0.39	37	0.26	0.15
	Fluorene	86737	mg kg-1	M	< 0.1	< 0.1	0.6	50	0.2	0.19
	Phenanthrene	85018	mg kg-1	M	0.13	0.28	3.8	340	1.9	1.6
	Anthracene	120127	mg kg-1	M	< 0.1	0.21	1.1	91	0.48	0.42
	Fluoranthene	206440	mg kg-1	M	0.28	0.62	4.2	280	2.8	2.1
	Pyrene	129000	mg kg-1	M	0.24	0.5	3.5	210	2.2	1.7
	Benzo[a]anthracene	56553	mg kg-1	M	0.17	0.21	2	110	1.3	1
	Chrysene	218019	mg kg-1	M	0.23	0.3	2.4	130	1.5	1.1
	Benzo[b]fluoranthene	205992	mg kg-1	M	0.39	0.38	2.3	81	1.8	1.2
	Benzo[k]fluoranthene	207089	mg kg-1	M	0.17	0.17	1.4	71	0.92	0.71
	Benzo[a]pyrene	50328	mg kg-1	M	0.29	0.31	2.2	81	1.5	1.1
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	< 0.1	< 0.1	0.42	13	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	< 0.1	< 0.1	1.7	58	< 0.1	0.67
	Benzo[g,h,]perylene	191242	mg kg-1	M	< 0.1	< 0.1	1.2	46	< 0.1	0.58
	Total (of 16) PAHs		mg kg-1	M	< 2	3	28	1700	15	13
2760	Methyl tert-butylether	1634044	µg kg-1	N	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-1	U	< 20 [1]	< 20	< 20	< 20	< 20	< 20

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

All tests undertaken between 21/06/2013 and 01/07/2013

* Accreditation status

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LABORATORY TEST REPORT

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					232943					
					AI86152	AI86153	AI86154	AI86155	AI86156	AI86157
					cslt-20-108	cslt-21-109	cslt-22-110	cslt-23-111	cslt-24-112	cslt-25-113
					NC20	NC20	NC20	NC20	NC20	NC20
					19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	TPH aromatic >C21-C35		mg kg-¹	M	12	12	9.1	11	18	25
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	1.3	< 1	< 1	1.7	2.6
	Total Petroleum Hydrocarbons		mg kg-¹	N	19	20	14	20	32	39
2700	Naphthalene	91203	mg kg-¹	M	0.27	0.19	< 0.1	0.21	0.17	< 0.1
	Acenaphthylene	208968	mg kg-¹	M	0.21	0.25	< 0.1	0.19	0.15	0.22
	Acenaphthene	83329	mg kg-¹	M	0.35	0.45	< 0.1	0.5	0.67	0.3
	Fluorene	86737	mg kg-¹	M	0.2	0.56	< 0.1	0.48	0.53	0.22
	Phenanthrene	85018	mg kg-¹	M	2.3	5.8	0.4	1.5	4.9	3.2
	Anthracene	120127	mg kg-¹	M	0.62	1.2	0.38	0.62	1.1	0.77
	Fluoranthene	206440	mg kg-¹	M	5.1	8.5	0.74	2.2	6.6	7
	Pyrene	129000	mg kg-¹	M	4.3	6.8	0.63	1.7	5.3	5.8
	Benzo[a]anthracene	56553	mg kg-¹	M	2.7	3.4	0.42	0.97	3.2	3.5
	Chrysene	218019	mg kg-¹	M	3.1	4	0.47	1.2	3.9	4.4
	Benzo[b]fluoranthene	205992	mg kg-¹	M	4.3	3.5	0.63	1.2	2.9	4.6
	Benzo[k]fluoranthene	207089	mg kg-¹	M	2.2	2.5	0.44	0.7	2.4	2.8
	Benzo[a]pyrene	50328	mg kg-¹	M	3.1	3.3	0.57	1.2	2.8	3.9
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.68	0.31	0.23	< 0.1	0.71	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	2.2	2.2	0.45	0.27	2.3	3.4
	Benzo[g,h,]perylene	191242	mg kg-¹	M	1.7	1.8	0.43	0.28	1.7	2.2
	Total (of 16) PAHs		mg kg-¹	M	33	45	5.8	13	39	42
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

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LABORATORY TEST REPORT

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Report Date
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					232943					
					AI86158	AI86159	AI86160	AI86161	AI86162	AI86163
					cslt-26-114	cslt-27-115	cslt-28-116	cslt-29-117	cslt-29-301	cslt-30-302
					NC20	NC20	NC20	NC20	NC20	NC20
					19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
									0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2675	TPH aromatic >C21-C35		mg kg-¹	M	1.5	2.9	9.9	12	< 1	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1	< 1	< 1	< 1	< 1	< 1
	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10	< 10	17	19	< 10	< 10
2700	Naphthalene	91203	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-¹	M	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Acenaphthene	83329	mg kg-¹	M	< 0.1	< 0.1	0.78	< 0.1	< 0.1	< 0.1
	Fluorene	86737	mg kg-¹	M	< 0.1	< 0.1	0.76	< 0.1	< 0.1	< 0.1
	Phenanthrene	85018	mg kg-¹	M	0.76	0.93	4.3	1.4	< 0.1	< 0.1
	Anthracene	120127	mg kg-¹	M	0.28	0.33	1.4	1.2	< 0.1	< 0.1
	Fluoranthene	206440	mg kg-¹	M	1.2	1.5	5.2	2.3	< 0.1	< 0.1
	Pyrene	129000	mg kg-¹	M	1	1.3	3.7	2.1	< 0.1	< 0.1
	Benzo[a]anthracene	56553	mg kg-¹	M	0.58	0.73	2.3	1.1	< 0.1	< 0.1
	Chrysene	218019	mg kg-¹	M	0.71	0.82	2.6	1.3	< 0.1	< 0.1
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.88	0.82	2.4	1.4	< 0.1	< 0.1
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.39	0.56	1.4	0.88	< 0.1	< 0.1
	Benzo[a]pyrene	50328	mg kg-¹	M	0.7	0.8	2.3	1.4	< 0.1	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.23	0.23	0.6	0.21	< 0.1	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.54	0.76	1.4	0.89	< 0.1	< 0.1
	Benzo[g,h,]perylene	191242	mg kg-¹	M	0.3	0.48	0.95	0.65	< 0.1	< 0.1
	Total (of 16) PAHs		mg kg-¹	M	7.6	9.3	30	15	< 2	< 2
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20	< 20	< 20	< 20	< 20	< 20

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
02 July 2013

					232943
					AI86164
					cslt-31-303
					NC20
					19/6/2013
					0.1m
					SOIL
2675	TPH aromatic >C21-C35		mg kg-¹	M	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1
	Total Petroleum Hydrocarbons		mg kg-¹	N	< 10
2700	Naphthalene	91203	mg kg-¹	M	< 0.1
	Acenaphthylene	208968	mg kg-¹	M	< 0.1
	Acenaphthene	83329	mg kg-¹	M	< 0.1
	Fluorene	86737	mg kg-¹	M	< 0.1
	Phenanthrene	85018	mg kg-¹	M	< 0.1
	Anthracene	120127	mg kg-¹	M	< 0.1
	Fluoranthene	206440	mg kg-¹	M	< 0.1
	Pyrene	129000	mg kg-¹	M	< 0.1
	Benzo[a]anthracene	56553	mg kg-¹	M	< 0.1
	Chrysene	218019	mg kg-¹	M	< 0.1
	Benzo[b]fluoranthene	205992	mg kg-¹	M	< 0.1
	Benzo[k]fluoranthene	207089	mg kg-¹	M	< 0.1
	Benzo[a]pyrene	50328	mg kg-¹	M	< 0.1
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	< 0.1
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	< 0.1
	Benzo[g,h,]perylene	191242	mg kg-¹	M	< 0.1
	Total (of 16) PAHs		mg kg-¹	M	< 2
2760	Methyl tert-butylether	1634044	µg kg-¹	N	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0
	Bromomethane	74839	µg kg-¹	U	< 20

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					232943					
					AI86146	AI86147	AI86148	AI86149	AI86150	AI86151
					cslt-15-103	cslt-15-118	cslt-16-104	cslt-17-105	cslt-18-106	cslt-19-107
					NC20	NC20	NC20	NC20	NC20	NC20
					11/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0 [1]	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne [1]	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0 [1]	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10 [1]	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0 [1]	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10 [1]	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10 [1]	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10 [1]	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0 [1]	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10 [1]	< 10	< 10	< 10	< 10	< 10

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

All tests undertaken between 21/06/2013 and 01/07/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
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Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Report Date
02 July 2013

					232943					
					AI86152	AI86153	AI86154	AI86155	AI86156	AI86157
					cslt-20-108	cslt-21-109	cslt-22-110	cslt-23-111	cslt-24-112	cslt-25-113
					NC20	NC20	NC20	NC20	NC20	NC20
					19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10

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					232943					
					AI86158	AI86159	AI86160	AI86161	AI86162	AI86163
					cslt-26-114	cslt-27-115	cslt-28-116	cslt-29-117	cslt-29-301	cslt-30-302
					NC20	NC20	NC20	NC20	NC20	NC20
					19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
									0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne	ne	ne	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10

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					232943
					AI86164
					cslt-31-303
					NC20
					19/6/2013
					0.1m
					SOIL
2760	Chloroethane	75003	µg kg-¹	U	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	U	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	U	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	U	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	U	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	U	< 1.0
	Dibromomethane	74953	µg kg-¹	U	< 10
	Bromodichloromethane	75274	µg kg-¹	U	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10
	Toluene	108883	µg kg-¹	M	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	U	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10

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					AI86146	AI86147	AI86148	AI86149	AI86150	AI86151
					cslt-15-103	cslt-15-118	cslt-16-104	cslt-17-105	cslt-18-106	cslt-19-107
					NC20	NC20	NC20	NC20	NC20	NC20
					11/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0 ¹	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0 ¹	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10 ¹	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10 ¹	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50 ¹	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0 ¹	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50 ¹	< 50	< 50	< 50	< 50	< 50

¹The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Report Date
02 July 2013

					232943					
					AI86152	AI86153	AI86154	AI86155	AI86156	AI86157
					cslt-20-108	cslt-21-109	cslt-22-110	cslt-23-111	cslt-24-112	cslt-25-113
					NC20	NC20	NC20	NC20	NC20	NC20
					19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Report Date
02 July 2013

					232943					
					AI86158	AI86159	AI86160	AI86161	AI86162	AI86163
					cslt-26-114	cslt-27-115	cslt-28-116	cslt-29-117	cslt-29-301	cslt-30-302
					NC20	NC20	NC20	NC20	NC20	NC20
					19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
									0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10	< 10	< 10	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10	< 10	< 10	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50	< 50	< 50	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50	< 50	< 50	< 50	< 50

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Report Date
02 July 2013

					232943
					AI86164
					cslt-31-303
					NC20
					19/6/2013
					0.1m
					SOIL
2760	1,2-Dibromoethane	106934	µg kg-¹	U	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	U	< 1.0
	o-Xylene	95476	µg kg-¹	U	< 1.0
	Styrene	100425	µg kg-¹	U	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10
	Isopropylbenzene	98828	µg kg-¹	U	< 1.0
	Bromobenzene	108861	µg kg-¹	U	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	U	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	U	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	U	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	U	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	U	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Report Date
02 July 2013

					232943					
					AI86146	AI86147	AI86148	AI86149	AI86150	AI86151
					cslt-15-103	cslt-15-118	cslt-16-104	cslt-17-105	cslt-18-106	cslt-19-107
					NC20	NC20	NC20	NC20	NC20	NC20
					11/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0 [1]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

All tests undertaken between 21/06/2013 and 01/07/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
02 July 2013

					232943					
					AI86152	AI86153	AI86154	AI86155	AI86156	AI86157
					cslt-20-108	cslt-21-109	cslt-22-110	cslt-23-111	cslt-24-112	cslt-25-113
					NC20	NC20	NC20	NC20	NC20	NC20
					19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Report Date
02 July 2013

					232943					
					AI86158	AI86159	AI86160	AI86161	AI86162	AI86163
					cslt-26-114	cslt-27-115	cslt-28-116	cslt-29-117	cslt-29-301	cslt-30-302
					NC20	NC20	NC20	NC20	NC20	NC20
					19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013	19/6/2013
									0.1m	0.1m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 22 samples
received 20 June 2013

Queen Elizabeth Olympic Park - 35875-002

Chemtest
The right chemistry to deliver results

Report Date
02 July 2013

					232943
					AI86164
					cslt-31-303
					NC20
					19/6/2013
					0.1m
					SOIL
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	U	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0
2920	Phenols (total)		mg kg-¹	N	<0.3

[1]The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

* Accreditation status

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 19 samples
received 20 June 2013
Queen Elizabeth Olympic Park - 35875-002

Report Date
22 July 2013

Login Batch No: 232943

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)		
AI86146	cslt-15-103	NC20		-	No Asbestos Detected
AI86147	cslt-15-118	NC20		-	No Asbestos Detected
AI86148	cslt-16-104	NC20		-	No Asbestos Detected
AI86149	cslt-17-105	NC20		-	No Asbestos Detected
AI86150	cslt-18-106	NC20		-	No Asbestos Detected
AI86151	cslt-19-107	NC20		-	No Asbestos Detected
AI86152	cslt-20-108	NC20		-	No Asbestos Detected
AI86153	cslt-21-109	NC20		-	No Asbestos Detected
AI86154	cslt-22-110	NC20		-	No Asbestos Detected
AI86155	cslt-23-111	NC20		-	No Asbestos Detected
AI86156	cslt-24-112	NC20		-	No Asbestos Detected
AI86157	cslt-25-113	NC20		-	No Asbestos Detected
AI86158	cslt-26-114	NC20		-	No Asbestos Detected
AI86159	cslt-27-115	NC20		-	No Asbestos Detected
AI86160	cslt-28-116	NC20		-	No Asbestos Detected
AI86161	cslt-29-117	NC20		-	No Asbestos Detected
AI86162	cslt-29-301	NC20	0.1	-	No Asbestos Detected
AI86163	cslt-30-302	NC20	0.1	-	No Asbestos Detected
AI86164	cslt-31-303	NC20	0.1	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by fibre counting (%)
Chemtest ID	Sample ID	Sample Desc		
AI86146	cslt-15-103	NC20	<0.001	-
AI86147	cslt-15-118	NC20	<0.001	-
AI86148	cslt-16-104	NC20	<0.001	-
AI86149	cslt-17-105	NC20	<0.001	-
AI86150	cslt-18-106	NC20	<0.001	-
AI86151	cslt-19-107	NC20	<0.001	-
AI86152	cslt-20-108	NC20	<0.001	-
AI86153	cslt-21-109	NC20	<0.001	-
AI86154	cslt-22-110	NC20	<0.001	-
AI86155	cslt-23-111	NC20	<0.001	-
AI86156	cslt-24-112	NC20	<0.001	-
AI86157	cslt-25-113	NC20	<0.001	-
AI86158	cslt-26-114	NC20	<0.001	-
AI86159	cslt-27-115	NC20	<0.001	-
AI86160	cslt-28-116	NC20	<0.001	-
AI86161	cslt-29-117	NC20	<0.001	-
AI86162	cslt-29-301	NC20	<0.001	-
AI86163	cslt-30-302	NC20	<0.001	-
AI86164	cslt-31-303	NC20	<0.001	-

The detection limit for this method is 0.001%

All tests undertaken between 28-Jun-2013 and 28-Jun-2013

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 19 samples
received 20 June 2013
Queen Elizabeth Olympic Park - 35875-002

Chemtest

Report Date
22 July 2013

[redacted]

All tests undertaken between 28-Jun-2013 and 28-Jun-2013

LIMS sample ID range AI86146 to AI86164

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 29 August 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Chemtest
The right chemistry to deliver results

Report Date
06 September 2013

Login Batch No					**237636**
Chemtest LIMS ID					AJ10891
Sample ID					cslt-15L01
Sample No					NC25
Sampling Date					29/8/2013
Depth					0.10m
Matrix					*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
1300	Cyanide (free)	57125	mg l-¹	U	<0.05
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U	0.10
1220	Sulfate	14808798	mg l-¹	U	12
1450	Arsenic	7440382	µg l-¹	U	5.2
	Cadmium	7440439	µg l-¹	U	0.35
	Copper	7440508	µg l-¹	U	32
	Mercury	7439976	µg l-¹	U	<0.50
	Nickel	7440020	µg l-¹	U	<1.0
	Lead	7439921	µg l-¹	U	3.5
	Selenium	7782492	µg l-¹	U	2.3
	Zinc	7440666	µg l-¹	U	99
1490	Chromium (hexavalent)	18540299	µg l-¹	U	<20
1700	Naphthalene	91203	µg l-¹	U	<0.1
	Acenaphthylene	208968	µg l-¹	U	<0.1
	Acenaphthene	83329	µg l-¹	U	<0.1
	Fluorene	86737	µg l-¹	U	<0.1
	Phenanthrene	85018	µg l-¹	U	<0.1
	Anthracene	120127	µg l-¹	U	<0.1
	Fluoranthene	206440	µg l-¹	U	<0.1
	Pyrene	129000	µg l-¹	U	<0.1
	Benzo[a]anthracene	56553	µg l-¹	U	<0.1
	Chrysene	218019	µg l-¹	U	<0.1
	Benzo[b]fluoranthene	205992	µg l-¹	N	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	N	<0.1

All tests undertaken between 08/30/2013 and 09/06/2013

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
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GU15 3XW

FAO [redacted]

LABORATORY TEST REPORT

Results of analysis of 1 sample
received 29 August 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
06 September 2013

					237636
					AJ10891
					cslt-15L01
					NC25
					29/8/2013
					0.10m
					LEACHATE
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1
	Total (of 16) PAHs		µg l-¹	U	<2
1920	Phenols (total)		mg l-¹	N	< 0.03

All tests undertaken between 08/30/2013 and 09/06/2013

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
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GU15 3XW

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LABORATORY TEST REPORT

Results of analysis of 2 samples
received 29 August 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
06 September 2013

Login Batch No					**237636**
Chemtest LIMS ID					AJ10890
Sample ID					cslt-15L01
Sample No					NC25
Sampling Date					29/8/2013
Depth					0.10m
Matrix					*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*	
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5
2450	Arsenic	7440382	mg kg-¹	M	10
	Cadmium	7440439	mg kg-¹	M	0.24
	Mercury	7439976	mg kg-¹	M	0.29
	Nickel	7440020	mg kg-¹	M	6.7
	Lead	7439921	mg kg-¹	M	25
	Selenium	7782492	mg kg-¹	M	<0.20
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	M	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	< 1
	TPH aromatic >C16-C21		mg kg-¹	M	< 1
	TPH aromatic >C21-C35		mg kg-¹	M	< 1
	TPH aromatic >C35-C44		mg kg-¹	N	< 1

All tests undertaken between 08/30/2013 and 09/06/2013

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 2 samples
received 29 August 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
06 September 2013

					237636
					AJ10890
					cslt-15L01
					NC25
					29/8/2013
					0.10m
					SOIL
2675	Total Petroleum Hydrocarbons		mg kg-1	N	< 10
2700	Naphthalene	91203	mg kg-1	M	< 0.1
	Acenaphthylene	208968	mg kg-1	M	< 0.1
	Acenaphthene	83329	mg kg-1	M	0.25
	Fluorene	86737	mg kg-1	M	0.15
	Phenanthrene	85018	mg kg-1	M	0.36
	Anthracene	120127	mg kg-1	M	0.19
	Fluoranthene	206440	mg kg-1	M	0.61
	Pyrene	129000	mg kg-1	M	0.52
	Benzo[a]anthracene	56553	mg kg-1	M	0.3
	Chrysene	218019	mg kg-1	M	0.35
	Benzo[b]fluoranthene	205992	mg kg-1	N	0.38
	Benzo[k]fluoranthene	207089	mg kg-1	N	0.16
	Benzo[a]pyrene	50328	mg kg-1	M	0.45
	Dibenzo[a,h]anthracene	53703	mg kg-1	M	0.3
	Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	0.3
	Benzo[g,h,]perylene	191242	mg kg-1	M	0.17
	Total (of 16) PAHs		mg kg-1	M	4.5
2760	Methyl tert-butylether	1634044	µg kg-1	M	< 1.0
	Dichlorodifluoromethane	75718	µg kg-1	U	< 1.0
	Chloromethane	74873	µg kg-1	M	< 1.0
	Vinyl chloride	75014	µg kg-1	M	< 1.0
	Bromomethane	74839	µg kg-1	M	< 20
	Chloroethane	75003	µg kg-1	U	< 2.0
	Trichlorofluoromethane	75694	µg kg-1	M	< 1.0

All tests undertaken between 08/30/2013 and 09/06/2013

* Accreditation status

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LABORATORY TEST REPORT

Results of analysis of 2 samples
received 29 August 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Chemtest
The right chemistry to deliver results

Report Date
06 September 2013

					237636
					AJ10890
					cslt-15L01
					NC25
					29/8/2013
					0.10m
					SOIL
2760	1,1-Dichloroethene	75354	µg kg-¹	M	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	M	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	M	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	M	< 1.0
	Dibromomethane	74953	µg kg-¹	M	< 10
	Bromodichloromethane	75274	µg kg-¹	M	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10
	Toluene	108883	µg kg-¹	M	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	M	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10
	1,2-Dibromoethane	106934	µg kg-¹	M	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0

All tests undertaken between 08/30/2013 and 09/06/2013

* Accreditation status

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BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 2 samples
received 29 August 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
06 September 2013

					237636
					AJ10890
					cslt-15L01
					NC25
					29/8/2013
					0.10m
					SOIL
2760	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	M	< 1.0
	o-Xylene	95476	µg kg-¹	M	< 1.0
	Styrene	100425	µg kg-¹	M	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10
	Isopropylbenzene	98828	µg kg-¹	M	< 1.0
	Bromobenzene	108861	µg kg-¹	M	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	M	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	M	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	M	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	M	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	M	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50
	1,2,4-Trichlorobenzene	120821	µg kg-¹	M	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0

All tests undertaken between 08/30/2013 and 09/06/2013

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
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LABORATORY TEST REPORT

Results of analysis of 2 samples
received 29 August 2013

35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Chemtest
The right chemistry to deliver results

Report Date
06 September 2013

					237636
					AJ10890
					cslt-15L01
					NC25
					29/8/2013
					0.10m
					SOIL
2920	Phenols (total)		mg kg-¹	M	<0.3

All tests undertaken between 08/30/2013 and 09/06/2013

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 1 sample
received 29 August 2013
35875-002- Queen Elizabeth Olympic Park- QEOP-CS

Report Date
06 September 2013

Login Batch No: 237636

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)	UKAS Accredited	UKAS Accredited
AJ10890	cslt-15L01	NC25	0.10	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by f bre counting (%)
Chemtest ID	Sample ID	Sample Desc	Not Accredited	Not Accredited
AJ10890	cslt-15L01	NC25	<0.001	-

The detection limit for this method is 0.001%

[redacted]

All tests undertaken between 04-Sep-2013 and 4-Sep-2013

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
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LABORATORY TEST REPORT

Results of analysis of 4 samples
received 30 September 2013

QEOP-CS Queen Elizabeth Olympic Park

Report Date
04 October 2013

Login Batch No					239706			
Chemtest LIMS ID					AJ22370	AJ22371	AJ22372	AJ22373
Sample ID					cslt-15-105a	cslt-15-105b	cslt-15-105c	cslt-15-105d
Sample No					NC20	NC20	NC20	NC20
Sampling Date					20/9/2013	20/9/2013	20/9/2013	20/9/2013
Depth					0.40m	0.40m	0.40m	0.40m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*				
2700	Naphthalene	91203	mg kg-¹	M	1.6	1.7	0.98	1
	Acenaphthylene	208968	mg kg-¹	M	0.69	0.21	0.21	0.16
	Acenaphthene	83329	mg kg-¹	M	0.77	0.43	0.28	0.27
	Fluorene	86737	mg kg-¹	M	1.1	0.39	0.27	0.11
	Phenanthrene	85018	mg kg-¹	M	9.1	2.5	2.9	1.1
	Anthracene	120127	mg kg-¹	M	2.1	0.85	0.88	0.4
	Fluoranthene	206440	mg kg-¹	M	9.1	3.4	4.4	2
	Pyrene	129000	mg kg-¹	M	7.1	2.8	3.6	1.7
	Benzo[a]anthracene	56553	mg kg-¹	M	3.9	1.6	2.3	1.1
	Chrysene	218019	mg kg-¹	M	4	1.7	2.4	1.2
	Benzo[b]fluoranthene	205992	mg kg-¹	N	3.8	1.6	2	1.4
	Benzo[k]fluoranthene	207089	mg kg-¹	N	2.3	1.1	1.5	0.78
	Benzo[a]pyrene	50328	mg kg-¹	M	3.4	1.4	1.9	1.3
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.77	0.21	0.67	0.3
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	2.6	1.1	1.6	1.1
	Benzo[g,h,]perylene	191242	mg kg-¹	M	2.4	0.75	0.91	0.87
	Total (of 16) PAHs		mg kg-¹	M	55	22	27	15

All tests undertaken between 30/09/2013 and 04/10/2013

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
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GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 2 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Report Date
06 February 2014

Login Batch No					**250192**	
Chemtest LIMS ID					AJ76279	AJ76280
Sample ID					cslt-15-201	cslt-15-202
Sample No					NC24	NC24
Sampling Date					28/1/2014	28/1/2014
Depth					0.40m	0.40m
Matrix					*LEACHATE*	*LEACHATE*
SOP↓	Determinand↓	CAS No↓	Units↓	*		
1300	Cyanide (free)	57125	mg l-¹	U	<0.050	<0.050
1220	Ammoniacal Nitrogen	AMM_NITROG	mg l-¹	U	0.10	0.10
1220	Sulfate	14808798	mg l-¹	U	18	14
1450	Arsenic	7440382	µg l-¹	U	20	21
	Cadmium	7440439	µg l-¹	U	0.22	<0.080
	Copper	7440508	µg l-¹	U	29	32
	Mercury	7439976	µg l-¹	U	<0.50	<0.50
	Nickel	7440020	µg l-¹	U	2.1	1.7
	Lead	7439921	µg l-¹	U	72	99
	Selenium	7782492	µg l-¹	U	1.4	1.1
	Zinc	7440666	µg l-¹	U	30	30
1490	Chromium (hexavalent)	18540299	µg l-¹	U	<20	<20
1700	Naphthalene	91203	µg l-¹	U	<0.1	<0.1
	Acenaphthylene	208968	µg l-¹	U	<0.1	<0.1
	Acenaphthene	83329	µg l-¹	U	<0.1	<0.1
	Fluorene	86737	µg l-¹	U	<0.1	<0.1
	Phenanthrene	85018	µg l-¹	U	<0.1	<0.1
	Anthracene	120127	µg l-¹	U	<0.1	<0.1
	Fluoranthene	206440	µg l-¹	U	<0.1	1.9
	Pyrene	129000	µg l-¹	U	<0.1	2.3
	Benzo[a]anthracene	56553	µg l-¹	U	<0.1	<0.1
	Chrysene	218019	µg l-¹	U	<0.1	<0.1
	Benzo[b]fluoranthene	205992	µg l-¹	N	<0.1	<0.1
	Benzo[k]fluoranthene	207089	µg l-¹	N	<0.1	<0.1

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
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GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 2 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Report Date
06 February 2014

					250192	
					AJ76279	AJ76280
					cslt-15-201	cslt-15-202
					NC24	NC24
					28/1/2014	28/1/2014
					0.40m	0.40m
					LEACHATE	*LEACHATE*
1700	Benzo[a]pyrene	50328	µg l-¹	U	<0.1	<0.1
	Dibenzo[a,h]anthracene	53703	µg l-¹	U	<0.1	<0.1
	Indeno[1,2,3-cd]pyrene	193395	µg l-¹	U	<0.1	<0.1
	Benzo[g,h,]perylene	191242	µg l-¹	U	<0.1	<0.1
	Total (of 16) PAHs		µg l-¹	U	<2	4.2
1920	Phenols (total)		mg l-¹	N	< 0.03	< 0.03

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

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BAM Nuttall Ltd
St James House
Knoll Road
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GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Report Date
06 February 2014

Login Batch No					250192	
Chemtest LIMS ID					AJ76277	AJ76278
Sample ID					cslt-15-119	cslt-15-120
Sample No					NC24	NC24
Sampling Date					28/1/2014	28/1/2014
Depth					0.40m	0.40m
Matrix					*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*		
2300	Cyanide (free)	57125	mg kg-¹	M	<0.50	<0.50
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5
2450	Arsenic	7440382	mg kg-¹	M	27	47
	Cadmium	7440439	mg kg-¹	M	0.53	0.36
	Copper	7440508	mg kg-¹	M	110	170
	Mercury	7439976	mg kg-¹	M	1.9	4.4
	Nickel	7440020	mg kg-¹	M	35	37
	Lead	7439921	mg kg-¹	M	590	950
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20
	Zinc	7440666	mg kg-¹	M	250	330
2675	TPH aliphatic >C5-C6		mg kg-¹	N	< 0.1	< 0.1
	TPH aliphatic >C6-C8		mg kg-¹	N	< 0.1	< 0.1
	TPH aliphatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1
	TPH aliphatic >C10-C12		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C12-C16		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C16-C21		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C21-C35		mg kg-¹	M	< 1	< 1
	TPH aliphatic >C35-C44		mg kg-¹	N	< 1	< 1
	TPH aromatic >C5-C7		mg kg-¹	N	< 0.1	< 0.1
	TPH aromatic >C7-C8		mg kg-¹	N	< 0.1	< 0.1
	TPH aromatic >C8-C10		mg kg-¹	N	< 0.1	< 0.1
	TPH aromatic >C10-C12		mg kg-¹	N	1.4	< 1
	TPH aromatic >C12-C16		mg kg-¹	M	2.8	2.9
	TPH aromatic >C16-C21		mg kg-¹	M	11	13

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
06 February 2014

					250192	
					AJ76277	AJ76278
					cslt-15-119	cslt-15-120
					NC24	NC24
					28/1/2014	28/1/2014
					0.40m	0.40m
					SOIL	*SOIL*
2675	TPH aromatic >C21-C35		mg kg-¹	N	30	36
	TPH aromatic >C35-C44		mg kg-¹	N	3.7	3.5
	Total Petroleum Hydrocarbons		mg kg-¹	N	48	55
2700	Naphthalene	91203	mg kg-¹	M	< 0.1	0.37
	Acenaphthylene	208968	mg kg-¹	M	0.5	0.45
	Acenaphthene	83329	mg kg-¹	M	0.27	0.27
	Fluorene	86737	mg kg-¹	M	0.27	< 0.1
	Phenanthrene	85018	mg kg-¹	M	3.5	3.4
	Anthracene	120127	mg kg-¹	M	1.2	1
	Fluoranthene	206440	mg kg-¹	M	8.7	8.6
	Pyrene	129000	mg kg-¹	M	7.8	7.8
	Benzo[a]anthracene	56553	mg kg-¹	M	4.6	4.7
	Chrysene	218019	mg kg-¹	M	4.7	4.7
	Benzo[b]fluoranthene	205992	mg kg-¹	N	6.2	6
	Benzo[k]fluoranthene	207089	mg kg-¹	N	4.1	3.3
	Benzo[a]pyrene	50328	mg kg-¹	M	5.3	5.1
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	0.42	0.62
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	3.6	3.4
	Benzo[g,h,]perylene	191242	mg kg-¹	M	3.9	3.6
	Total (of 16) PAHs		mg kg-¹	M	55	53
2760	Methyl tert-butylether	1634044	µg kg-¹	M	< 1.0	< 1.0
	Dichlorodifluoromethane	75718	µg kg-¹	U	< 1.0	< 1.0
	Chloromethane	74873	µg kg-¹	M	< 1.0	< 1.0
	Vinyl chloride	75014	µg kg-¹	M	< 1.0	< 1.0
	Bromomethane	74839	µg kg-¹	M	< 20	< 20

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page.

BAM Nuttall Ltd
St James House
Knoll Road
Camberley
GU15 3XW

FAO [redacted]

AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Report Date
06 February 2014

					250192	
					AJ76277	AJ76278
					cslt-15-119	cslt-15-120
					NC24	NC24
					28/1/2014	28/1/2014
					0.40m	0.40m
					SOIL	*SOIL*
2760	Chloroethane	75003	µg kg-¹	U	< 2.0	< 2.0
	Trichlorofluoromethane	75694	µg kg-¹	M	< 1.0	< 1.0
	1,1-Dichloroethene	75354	µg kg-¹	M	< 1.0	< 1.0
	Dichloromethane	75092	µg kg-¹	N	ne	ne
	trans-1,2-Dichloroethene	156605	µg kg-¹	M	< 1.0	< 1.0
	1,1-Dichloroethane	75343	µg kg-¹	M	< 1.0	< 1.0
	cis-1,2-Dichloroethene	156592	µg kg-¹	M	< 1.0	< 1.0
	Bromochloromethane	74975	µg kg-¹	U	< 1.0	< 1.0
	Trichloromethane	67663	µg kg-¹	M	< 1.0	< 1.0
	1,1,1-Trichloroethane	71556	µg kg-¹	M	< 1.0	< 1.0
	Tetrachloromethane	56235	µg kg-¹	M	< 1.0	< 1.0
	1,1-Dichloropropene	563586	µg kg-¹	U	< 1.0	< 1.0
	Benzene	71432	µg kg-¹	M	< 1.0	< 1.0
	1,2-Dichloroethane	107062	µg kg-¹	M	< 2.0	< 2.0
	Trichloroethene	79016	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichloropropane	78875	µg kg-¹	M	< 1.0	< 1.0
	Dibromomethane	74953	µg kg-¹	M	< 10	< 10
	Bromodichloromethane	75274	µg kg-¹	M	< 5.0	< 5.0
	cis-1,3-Dichloropropene	10061015	µg kg-¹	N	< 10	< 10
	Toluene	108883	µg kg-¹	M	< 1.0	< 1.0
	trans-1,3-Dichloropropene	10061026	µg kg-¹	N	< 10	< 10
	1,1,2-Trichloroethane	79005	µg kg-¹	M	< 10	< 10
	Tetrachloroethene	127184	µg kg-¹	M	< 1.0	< 1.0
	1,3-Dichloropropane	142289	µg kg-¹	U	< 2.0	< 2.0
	Dibromochloromethane	124481	µg kg-¹	U	< 10	< 10

All tests undertaken between 29/01/2014 and 04/02/2014

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GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Chemtest
The right chemistry to deliver results

Report Date
06 February 2014

					250192	
					AJ76277	AJ76278
					cslt-15-119	cslt-15-120
					NC24	NC24
					28/1/2014	28/1/2014
					0.40m	0.40m
					SOIL	*SOIL*
2760	1,2-Dibromoethane	106934	µg kg-¹	M	< 5.0	< 5.0
	Chlorobenzene	108907	µg kg-¹	M	< 1.0	< 1.0
	1,1,1,2-Tetrachloroethane	630206	µg kg-¹	M	< 2.0	< 2.0
	Ethylbenzene	100414	µg kg-¹	M	< 1.0	< 1.0
	m- & p-Xylene	1330207	µg kg-¹	M	< 1.0	< 1.0
	o-Xylene	95476	µg kg-¹	M	< 1.0	< 1.0
	Styrene	100425	µg kg-¹	M	< 1.0	< 1.0
	Tr bromomethane	75252	µg kg-¹	U	< 10	< 10
	Isopropylbenzene	98828	µg kg-¹	M	< 1.0	< 1.0
	Bromobenzene	108861	µg kg-¹	M	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	79345	µg kg-¹	N	< 10	< 10
	1,2,3-Trichloropropane	96184	µg kg-¹	N	< 50	< 50
	n-Propylbenzene	103651	µg kg-¹	U	< 1.0	< 1.0
	2-Chlorotoluene	95498	µg kg-¹	M	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	95636	µg kg-¹	M	< 1.0	< 1.0
	4-Chlorotoluene	106434	µg kg-¹	U	< 1.0	< 1.0
	tert-Buty benzene	98066	µg kg-¹	U	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	108678	µg kg-¹	M	< 1.0	< 1.0
	sec-Butylbenzene	135988	µg kg-¹	U	< 1.0	< 1.0
	1,3-Dichlorobenzene	541731	µg kg-¹	M	< 1.0	< 1.0
	4-Isopropyltoluene	99876	µg kg-¹	U	< 1.0	< 1.0
	1,4-Dichlorobenzene	106467	µg kg-¹	M	< 1.0	< 1.0
	n-Butylbenzene	104518	µg kg-¹	U	< 1.0	< 1.0
	1,2-Dichlorobenzene	95501	µg kg-¹	M	< 1.0	< 1.0
	1,2-Dibromo-3-chloropropane	96128	µg kg-¹	U	< 50	< 50

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

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BAM Nuttall Ltd
St James House
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Camberley
GU15 3XW

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AMENDED LABORATORY TEST REPORT

Results of analysis of 4 samples
received 29 January 2014

35875-002 Queen Elizabeth Olympic Park

Report Date
06 February 2014

					250192	
					AJ76277	AJ76278
					cslt-15-119	cslt-15-120
					NC24	NC24
					28/1/2014	28/1/2014
					0.40m	0.40m
					SOIL	*SOIL*
2760	1,2,4-Trichlorobenzene	120821	µg kg-¹	M	< 1.0	< 1.0
	Hexachlorobutadiene	87683	µg kg-¹	U	< 1.0	< 1.0
2920	Phenols (total)		mg kg-¹	M	<0.3	<0.3

All tests undertaken between 29/01/2014 and 04/02/2014

* Accreditation status

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BAM Nuttall Ltd
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LABORATORY TEST REPORT
Asbestos in Soils

Results of analysis of 2 samples
received 29 January 2014
35875-002 Queen Elizabeth Olympic Park

Report Date
05 February 2014

Login Batch No: 250192

Qualitative Results

				SOP 2190	
				ACM Type	Asbestos Identification
Chemtest ID	Sample ID	Sample Desc	Depth (m)	UKAS Accredited	UKAS Accredited
AJ76277	cslt-15-201	NC24	0.40	-	No Asbestos Detected
AJ76278	cslt-15-202	NC24	0.40	-	No Asbestos Detected

The detection limit for this method is 0.001%

Quantitative Analysis Results

			SOP 2189	SOP 2191
			Asbestos by hand picking (%)	Asbestos by f bre counting (%)
Chemtest ID	Sample ID	Sample Desc	Not Accredited	Not Accredited
AJ76277	cslt-15-201	NC24	<0.001	-
AJ76278	cslt-15-202	NC24	<0.001	-

The detection limit for this method is 0.001%

[redacted]

All tests undertaken between 04-Feb-2014 and 4-Feb-2014 at our asbestos testing facility in Coventry

LIMS sample ID range AJ76277 to AJ76278