



Harrow Estates Plc

REMEDIATION STRATEGY - DEMOLITION PHASE 4 NORTH

Woodford Aerodrome





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Woodford Aerodrome

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1 INTRODUCTION

1.1 AUTHORISATION

WSP was instructed by Harrow Estates Plc (Harrow Estates) to produce a Remediation Strategy for Demolition Phase 4 (DP4) within the former Woodford Aerodrome site. The site location is provided in Figure 1, Appendix A.

The enclosed Remediation Strategy is for the proposed Residential Area and Commercial Area within Demolition Phase 4, collectively named DP4 North (the site). A separate Remediation Strategy will be produced for the proposed Agricultural Area in the southwest of DP4 (named DP4 South). The residential, commercial and agricultural areas are indicated on Figure 2 in Appendix A.

This Remediation Strategy is based on the WSP Geo-environmental Assessment Report, dated 16 December 2014 and the WSP Ground Gas Assessment dated 28 May 2015 (detailed in Section 1.3).

This Remediation Strategy will need to be submitted for approval to Stockport Council.

1.2 DEVELOPMENT PROPOSALS

The former Woodford Aerodrome is being prepared by Harrow Estates for predominantly residential development in four sequential phases, referred to as Demolition Phases 1, 2, 3 and 4 (DP1 to DP4). Remediation strategies and Remediation Completion Reports have already been prepared for DP1, DP2 and DP3 and residential development is largely complete in DP1 and DP2, with works ongoing in DP3 at the time of writing.

The illustrative masterplan (included in Appendix A) provides an indication of the redevelopment plans for the entire Woodford Aerodrome site, (reference PC1161.GA.3013 revision 2 dated 09 October 2013).

A programme of earthworks is due to commence in DP4 North in mid-2021, with works in DP4 South following later.

1.3 PREVIOUS REPORTS AND BACKGROUND

The former Woodford Aerodrome has been subject to a number of soil and groundwater investigations within all four demolition phases. The associated investigation reports and details of their contents are provided below:

Site Wide Assessment

- BAE Systems Environmental (BAE) Desk Study for Potential Contamination, dated October 2011 (reference A0787-00-R2-1 (BAE, 2011).
- BAE Phase 1 Assessment of Ground and Ground Water Conditions, dated April 2012 (reference A1065-00-R2-1). This investigation comprised the drilling and excavation of the BAE BH1/TP1 series of boreholes and trial pits.
- Wessex Archaeology (2012). Land at Woodford Aerodrome, Woodford, Greater Manchester, Detailed Gradiometer Report, dated October 2012, reference 86610.02.
- 6 Alpha Associates (2011). Preliminary Unexploded Ordnance (UXO) Risk Assessment, dated 23 November 2011, reference P2653.

- CGMS Consulting, Heritage Assessment. Woodford Aerodrome, dated September 2013, reference PC/RS/13781.
- Nuclear Technologies (NT) Woodford Aerodrome Radiological Desk Study Draft A, dated 10 December 2014, reference NT 722501526 R1307 FINAL (commissioned by WSP and presented in WSP's December 2014 report).
- WSP, Geo-environmental Assessment report, dated 16 December 2014, reference 70004430/10193(1) (referred to as the 'WSP 2014 report'). This targeted investigation comprised the drilling and excavation of the BH101/WS101/TP101 series of boreholes, window samples and trial pits across the Woodford Aerodrome site to investigate potential concern (APC) in relation to ground contamination from potentially contaminative historical uses of the site; APC21 to APC35 are located within Demolition Phase 4. The report includes details of the intrusive investigation that was completed within and around the APCs and identifies areas of the site where remediation or further investigation is considered necessary on the basis of the proposed end use. The report has been submitted to Stockport Council by Harrow Estates as part of the planning process.
- WSP, Ground Gas Assessment, Woodford Aerodrome, reference 70004430/10382(1), dated 28 May 2015 (referred to as the 'WSP Gas Report'). This included further ground gas data and a revised assessment.

Demolition Phase 1

- WSP, Remediation Strategy Demolition Phase 1, dated 20 February 2015, reference 70004430/0280(3).
- WSP, Woodford Remediation Completion Report – Demolition Phase 1, WSP Review, dated 26 May 2016 (DP1 Completion Report).

Demolition Phase 2

- WSP, Further works addendum letter report for Demolition Phase 2, reference 70008760/10112, dated May 2015. This report includes details of further intrusive investigation works completed in DP2.
- WSP, Remediation Strategy – Demolition Phase 2, dated 18 May 2015, reference 70004430/10346(3). This presented the remediation strategy for Demolition Phase 2.
- WSP | Parsons Brinckerhoff, Woodford Aerodrome – Remediation Completion Report for Harrow Demolition Phase 2, reference 70008760/10542 rev01, dated 27 July 2016.

Demolition Phase 3

- WSP | Parsons Brinckerhoff, Woodford Aerodrome Demolition Phase 3 – Supplementary Interpretive Site Investigation Addendum Letter Report, reference 70008760/10533, dated 15 August 2016. This letter report includes details of further intrusive investigation works completed in DP3 in order to update the conceptual site model for DP3.

Demolition Phase 4

Additional intrusive investigation and monitoring works were undertaken by WSP in February and March 2021 in the Agricultural Area, according to the recommendations within the WSP 2014 report. However, no further works were completed in DP4 North.



Materials Management Plan

It is understood that the Materials Management Plan for the development is being managed by others. Verification of the MMP activities will also be completed by the MMP author.

1.4 REMEDIATION STRATEGY OBJECTIVES

The objectives of this Remediation Strategy are as follows:

- To present the remedial measures in relation to contaminated soil and perched groundwater that are required prior to the Residential Area and Commercial Area in DP4 North being handed over for redevelopment.
- To describe how the remediation works shall be carried out, validated and reported.
- To facilitate discharge of the contaminated land planning condition number 3 provided by Stockport Council, given below:

'No development (excluding demolition) shall take place until a detailed remediation scheme for the relevant phase or sub-phase has been submitted to, and approved in writing by, the local planning authority to bring the relevant part of the site to a condition suitable for a residential led mixed-use development (as proposed by planning permission DC053832) by removing unacceptable risks to human health, buildings and other property and the natural and historical environment. The scheme to be submitted shall specify but not be limited to:

- *the proposed remediation objectives and remediation criteria;*
- *all remedial works to be undertaken including the quantities of materials to be removed from and imported to the development site; and,*
- *the proposals for sourcing and testing all materials imported to the site including testing schedules, sampling frequencies and actual and allowable contaminant concentrations (as determined by appropriate risk assessment in accordance with the document "Model Procedures for the Management of Land Contamination" [CLR11]).'*

1.5 CONFIDENTIALITY STATEMENT

This report is addressed to and may be relied upon by the following party:

Harrow Estates plc, Bridgemere House, Chester Road, Preston Brook, WA7 3BD

This report has been prepared for the sole use and reliance of the above-named party and shall not be relied upon or transferred to any other parties without the express written authorisation of WSP. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party. This report needs to be read and used in full.

1.6 REPORT LIMITATIONS

The Remediation Strategy has been produced for DP4 North based on the results of previous intrusive site investigations. Whilst every effort was made to target areas of potential concern during these investigations, there remains the possibility that hot spots of previously unidentified contamination are present beneath the site. General limitations of the Remediation Strategy are included in Appendix D.

2 SITE SETTING INFORMATION

Attribute	Details
Site Name	DP4 North (Residential Area and Commercial Area)
Site Address	Part of the former Woodford Aerodrome site, Chester Road, Woodford, Stockport, SK7 1QR (the wider site)
Site Location	The Woodford Aerodrome site is located south of the village of Woodford, approximately 6.5km south of Stockport. A site location plan is presented as Figure 1.
Coordinates, British National Grid	389701, 382671
Site Area and Access	<p>The Woodford Aerodrome site comprises approximately 100 Hectares. The DP4 area comprises approximately 34 Hectares in the southwest of the aerodrome site, located to the south of the former southeast-northwest orientated runway. DP4 and the boundary of the entire former Woodford Aerodrome site are indicated on Figure 2 in Appendix A.</p> <p>The location of the boundary between DP3 and DP4 (i.e. the northern edge of the DP4 boundary) was moved to the south prior to issue of the DP3 validation report; with the result that a strip of land along the northern periphery of DP4 became part of DP3 for validation purposes. Details of the boundary change are provided in Appendix B. This report applies to the revised DP4 boundary.</p>
Brief Site Description	<p>DP4 is approximately triangular with boundaries along three sides. During aerodrome operation the majority of the DP4 area was occupied by two runways, located along the northern boundary and across the west, surrounded by grassed areas, with taxi-ways and other ancillary areas / hardstanding / various small buildings around the eastern and southwestern peripheries. A number of aircraft hangars, maintenance facilities and large areas of hardstanding / apron were located at the southern tip of the area.</p> <p>The eastern edge of the Commercial Area contains the recently redeveloped Avro Heritage Centre building with external Vulcan Bomber display and an operational commercial building (Building 54), currently occupied by CAE (formerly Oxford Aviation).</p> <p>Demolition of former buildings in DP4 South has been taking place since the end of 2020 and was ongoing at the time of writing. Hardstanding in the area was largely still intact at the time of writing.</p> <p>Shird Fold Farm Brook forms DP4's eastern boundary. It joins Red Brook in the south, which forms the southern boundary before diverting from the boundary towards the southwest. The watercourses are approximately 2m below site level at the boundaries.</p> <p>Ground levels generally fall to the south / southwest. At the time of the 2014 investigation there were several large mounds at the southern end of the CAE building in the east, which were investigated in 2014. The mounds appeared to be present and intact in March 2021.</p>

Attribute	Details
Previous Site Use and Areas of Potential Concern	<p>The site has an aviation history dating back to the 1920s, prior to which the site was undeveloped. Prior to closure in 2011, BAE Systems operated the site for the assembly of aircraft.</p> <p>The Areas of Potential Concern (APCs) relating to potentially contaminative historical activities within DP4 North are listed below; both are located within the commercial area in the east:</p> <ul style="list-style-type: none"> · APC21 – above ground gas oil and diesel storage tanks · APC23 – mound of soil in the commercial area
Environmental Setting	<p>The former Woodford Aerodrome site is underlain by a mixture of superficial deposits, including Glacial Till and Alluvium, over bedrock comprising Sherwood Sandstone (Principal Aquifer). The superficial deposits were found to be highly variable in composition and consistency.</p> <p>A shallow groundwater body is present in the superficial deposits, with an inferred southerly flow direction and possible continuity with adjacent surface watercourses that run along the eastern and southern boundaries. Shallow groundwater is likely perched in places with limited connectivity through cohesive soils.</p> <p>In the south of the site the shallow groundwater body possibly merges with the deeper water table in the Sherwood Sandstone. Groundwater flow in the Sherwood Sandstone is to the west, towards a potable groundwater abstraction approximately 1km to the west.</p> <p>There may be some degree of hydraulic connectivity between the two units.</p> <p>The site is located within a Source Protection Zone (SPZ) III (Total Catchment), associated with two groundwater abstractions; the centres of the SPZ I (Inner Zone) for each abstraction are located approximately 1.5km west and 2km south and of the site boundary.</p> <p>Ground levels fall gently towards the south, towards Red Brook in the south. Red Brook flows south, eventually joining the River Dean.</p>

3 SUMMARY OF 2014 / 2015 INVESTIGATION FINDINGS FOR DP4 NORTH

3.1 PREVIOUS INFORMATION

The exploratory hole location plan from the WSP 2014 Report and BAE and WSP exploratory hole logs are included in Appendix C.

3.2 GROUND CONDITIONS

Previous BAE and WSP investigations within the DP4 North boundary encountered surface materials of either natural topsoil (to depths of approximately 0.5m bgl) (below ground level) or Made Ground (generally to depths of 0.2m bgl to 1m bgl). Made Ground was slightly deeper in places and was most consistently shallowest in the grassed areas in the east of DP4 North. The Made Ground generally comprises concrete or asphalt surfacing over sandy, occasionally cobbly gravel of sandstone with varying amounts of ash, clinker and brick.

The underlying natural soils typically comprise medium dense fine and medium sand and firm to stiff slightly sandy slightly gravelly clay (Glacial Till), with occasional organic matter (not interpreted as Glacial Till). The material was silty in places and soft clay layers were encountered at various depths to a maximum proven depth of 12.8m bgl (BH109). These soft layers are particularly evident in the central part of DP4 (adjacent to the south of DP4 North), where an area of peat was encountered between 0.25m bgl (WS166) and 2.60m bgl (TP138).

Drift deposits were proven to the maximum depth of drilling in the northern part of DP4 (14m bgl). The Wilmslow Sandstone Formation was proven in one location (8.20m bgl in BH106 in the south of DP4) recovered as very dense reddish-brown fine sand to a depth of 9.06m bgl.

The mound of material in the Commercial Area (south of the CAE building) comprised gravelly sand with varying amounts of broken brick, concrete, asphalt and occasional rebar.

3.3 GROUNDWATER CONDITIONS

Generally two groundwater units have been identified beneath DP4; an upper unit within the superficial sands (till / alluvium) and a lower unit present in the deeper superficial sands and underlying sandstone, separated by lower permeability materials. There may be some degree of hydraulic connectivity between the two units. Shallow groundwater is likely perched in places with limited connectivity through cohesive soils.

The groundwater flow direction of the upper body is inferred to be towards the south / southeast (gradient 0.008) (towards Shird Fold Farm Brook) and the lower body towards the west (gradient 0.003). The two groundwater bodies appear to converge in the south of DP4.

Groundwater depths and volumes within the Made Ground / superficial deposits are variable, with perched water located within granular materials and groundwater in monitoring wells recorded at depths of approximately 0.5m to several metres below ground level (m bgl).

3.4 ASBESTOS IN SOILS

During the WSP investigation completed in 2014 (across DP1 to DP4), representative samples (72no. of Made Ground and 13no. of topsoil including 33 from DP4) were screened for the presence

of asbestos fibres and asbestos containing materials (ACM); of these, 76 samples were found not to contain asbestos. Asbestos fibres comprising chrysotile or amosite were identified in the remaining nine samples; two of the 'asbestos positive' samples were from DP4 North as follows:

- Residential area: TP139 (0.1m bgl Made Ground) and TP174 ('trace' amounts, i.e. one or two fibres, from 0.1m bgl in topsoil).

3.5 CONTAMINATION ASSESSMENT

Visual and olfactory evidence of soil and groundwater contamination was not encountered in DP4 North. The generic quantitative risk assessments for human health and controlled waters identified no unacceptable chemical concentrations in soil or groundwater in DP4 North, indicating that remedial measures are not required in relation to soil / groundwater in this area.

On the basis of chemical contamination (and asbestos content) the mounded material in the south of the commercial area is suitable for re-use within the residential redevelopment. If evidence of contamination is encountered during handling this material, further characterisation and assessment will be required.

3.6 GROUND GAS

The majority of DP4 has been classified according to CIRIA C665 as CIRIA 1 / NHBC Green, for which new buildings do not require specific gas protection measures (Areas R2 and A1). The gas risk areas are indicated on Figure 3 in Appendix A. However, the WSP Gas Report identified several areas in which specific measures to protect new properties from ground gas ingress are required based on the proposed residential / agricultural layout; one is within the residential area (Area R3) and one encroaches on the boundary of the residential area (Area A4). Further details on Areas R3 and A4, which have implications for the residential area are provided below:

- Area R3 (approximately 1.5Ha) is classified as Amber 2 / Characteristic Situation 3 due to the presence of peat within superficial deposits and based on gas monitoring results from one monitoring well (WS179). The WSP Gas Report suggested that given the substantial size of this area, additional investigation / gas risk assessment is required to confirm the northern extent of Area R3 and the level of gas protection required.
- Area A4 adjacent to the southern boundary of the Residential Area is classified as Amber 2 / CIRIA 1; therefore, gas protection measures are required for properties in this area. Area A4 was defined according to the presence of peat deposits within the superficial soils. Area A4 is largely within the Agricultural Area; however, given the proximity of the Residential Area in DP4 North it is recommended that confirmatory investigation and gas monitoring is completed at this boundary to confirm gas protection requirements for DP4 North properties in the vicinity of this boundary.

It is important to note that for the purposes of this data summary the classification of Area A1 has been reviewed and amended from CIRIA 2 to CIRIA 1.

3.7 SUMMARY

The potentially complete pollutant linkages in DP4 North are summarised in Table 1 along with recommended further works, the details of which are provided in Section 4.

Table 1: Woodford Aerodrome DP4 North – Summary of Complete Contaminant Linkages, Further Works and Recommendations

APC	Location	Reported in 2014 Report			Action Taken After 2014 Report	
		Source	Pathway / Receptor	Recommended Action	Additional Information	Further Work / Remedial Action
No specific APC	Gas Risk Area R3 (see Figure 3 Appendix A)	Hazardous ground gases	Inhalation by construction workers, future site users	Await additional WSP gas monitoring data for confirmation of recommended ground gas protection measures.	WSP Gas Report 2015 confirmed CIRIA Characteristic Situation 3 (for no sub-floor void) or Amber 2 (with clear ventilated sub-floor void) for Area R3. The WSP Gas Report 2015 recommended additional assessment to delineate Area R3; no further works have taken place to date.	Supplementary gas monitoring and risk assessment required for Area R3 and Area A3 to confirm gas mitigation measures– see Section 4.
No specific APC	Gas Risk Area A3 (adjacent to south of Residential Area) (see Figure 3 Appendix A)	Hazardous ground gases (associated with peat soils)	Inhalation (future residents within residential area to north of Area A3)	Await additional WSP gas monitoring data for confirmation of recommended ground gas protection measures	WSP Gas Report 2015 confirmed that a ground gas classification of Characteristic Situation 2 applies to Gas Area A3, which is adjacent to the southern boundary of the Residential Area. Therefore basic gas protection measures are required for properties along the southern boundary of the Residential Area. The WSP Gas Report 2015 recommended additional assessment to delineate Area A3; no further works have taken place to date.	
No specific APC	Across site	Asbestos fibres occasionally found within Made Ground plus one sample of natural topsoil contained trace amounts	Inhalation by construction workers, future site users	Implement procedures during ground disturbance works within Made Ground that will minimise the generation of airborne dust. Complete confirmatory screening and quantification analysis on soils cut or excavated from these areas to determine most appropriate future use or disposal route for the soils.	No further investigation completed	No additional recommendations to those provided in 2014.

4 DP4 NORTH REMEDIATION STRATEGY

4.1 INTRODUCTION

This Remediation Strategy for DP4 North presents the works required to mitigate the risks identified in Table 1 and prevent additional risks being created during preliminary earthworks activities and redevelopment.

Based on the available information, the only DP4 North-specific remedial actions identified are related to risks from hazardous ground gases in the Residential Area.

The Remediation Strategy shall be revised as required if additional risks are identified during earthworks / redevelopment works and following any further works to delineate the gas risk areas.

A Remediation Summary Plan showing areas referred to in this section is presented as Figure 3 in Appendix A.

4.2 RESPONSIBILITIES

Earthworks Contractor

The earthworks contractor is responsible for undertaking earthworks in DP4 North in accordance with the Remediation Strategy.

The earthworks contractor shall engage the nominated environmental consultant if suspected contamination is encountered.

Environmental Consultant

The nominated Environmental Consultant shall respond to ground / groundwater contamination issues when informed / alerted by the contractor during earthworks / redevelopment, which could include the following:

- Characterisation of contamination, if encountered, and assessment of associated risks and required mitigation / remediation.
- Advising on appropriate remedial / materials management / disposal options for contaminated materials, if encountered.
- Preparation of the Verification Report to confirm works were completed in accordance with the DP4 North Remediation Strategy.

Future Developer

The future developer will be responsible for:

- Ensuring the relevant parts of this Remediation Strategy are complied with (e.g. provision of imported soil, installation of gas protection measures).
- Preparing the remediation completion / validation report for properties constructed in DP4 North.

4.3 AWARENESS, GOOD HYGIENE AND PERSONAL PROTECTIVE EQUIPMENT

All persons engaged in site redevelopment activities shall be made aware of the Remediation Strategy and the potential hazards associated with ground conditions at the site.

It is recommended that all works are conducted in accordance with the Health and Safety Executive publication entitled “Protection of Workers and the General Public during the Development of Contaminated Land”, 1991.

Site workers shall use appropriate personal protective equipment (e.g. gloves) when handling or working within Made Ground materials or other potentially contaminated soils. It may be necessary for personnel observing or supervising the excavation of contaminated soils (if encountered) to use respiratory protective equipment to filter out hazardous hydrocarbon vapours.

A high standard of basic hygiene should be maintained on site and a non-smoking and eating policy within the working area should be adopted, with designated clean areas set aside for these activities.

4.4 DUST MITIGATION

Site methods and procedures employed during ground works shall aim to minimise disturbance and dust generation from handling / storing Made Ground materials, to minimise liberation of asbestos fibres – e.g. avoid dropping materials from height, crushing away from neighbouring properties. Given the large size of DP4 there is opportunity to complete this work well away from neighbours, including new occupants in DP3.

Regular visual monitoring of dust levels shall be carried out and damping down of site roads and work areas shall be employed if excessive dust levels are being generated in the vicinity of neighbouring properties.

If suspected asbestos containing materials (e.g. pieces of corrugated asbestos cement) are encountered during works, an asbestos specialist should be consulted to confirm if the material is asbestos and provide advice on management of the material. Any encountered suspected asbestos containing material should not be disturbed, be thoroughly delineated and removed in an appropriate manner to a designated area away from the work area to prevent dust generation from vehicle movements – to be advised by the specialist.

The material should be taken offsite for disposal at landfill by an appropriately licensed contractor.

4.5 POTENTIALLY UNIDENTIFIED CONTAMINATION

During earthworks and site redevelopment, workers shall remain vigilant to the possible presence of previously unidentified contamination in all parts of the site.

This could comprise:

- Staining and / or odours in soils indicating oils / fuels / solvents / other chemicals.
- Colouration / sheens / odours related to perched groundwater.
- Suspected asbestos containing materials (e.g. buried fragments of corrugated asbestos cement)

- Evidence of buried aircraft waste, including luminescent aircraft dials (potential for radiological contamination).
- Significant areas of buried ash or remnants of burnt metal (could contain luminescent aircraft dials, with potential for radiological contamination).

If potentially contaminated material is encountered the Environmental Consultant shall be engaged to characterise the soils and assess potential risks to human health and controlled waters. If radiological contamination is suspected, the Radiological Adviser should be consulted.

If previously unidentified contamination (e.g. staining, odours) is encountered during demolition / redevelopment, it may require some form of remediation, which could comprise the following, to be advised by the Environmental Consultant:

- Remediation of hydrocarbon hotspots either by off-site disposal or on-site treatment, dependent on material volumes and options appraisal.
- Removal and placement of affected materials beneath either hardstanding or a clean soil cover system.
- Upgrading of proposed damp proof membranes / gas membranes to prevent vapour ingress in areas of localised volatile contamination (if not otherwise remediated / removed).
- Possible localised perched water remediation.
- Any additional contamination characterisation and / or remedial works undertaken in DP4 shall be documented in the validation report.

The re-deployment of excavated materials to other parts of the site should be recorded in the Materials Management Plan and Remediation Validation Report to demonstrate materials have been used in a way that will not cause unacceptable harm to human health or the environment.

4.6 TEMPORARY SOIL STORAGE / TREATMENT AREAS

If contaminated soils are encountered it may be necessary to remove the soils to a designated temporary contaminated soil storage areas that will be suitable for the temporary storage of grossly and / or mildly contaminated soils, as advised by the Environmental Consultant. The storage area for grossly contaminated soils shall be located on hardstanding and / or be lined and bunded, to prevent rainwater run-off. Areas for the possible on-site treatment of contaminated soils shall also be designated. Areas should be clearly marked on site and details of treatment undertaken shall be recorded and included in the final Validation Report.

4.7 REMEDIATION / VALIDATION CRITERIA

The Remediation / Validation Criteria adopted for DP4 North are provided in Appendix D. The criteria are applicable to areas requiring hot spot removal (if encountered) and soils imported to DP4 North, e.g. as part of an earthworks exercise. The criteria are based on current WSP human health generic assessment criteria for a residential (with home-grown vegetables) end use, assuming a 2.5% soil organic matter content (consistent with previous demolition phases).

4.8 LABORATORY ANALYSIS OF IMPORTED SOIL

Soils imported from outside the Woodford Aerodrome site to DP4 North shall be obtained from reputable external suppliers, be demonstrated to be suitable for its intended use and comply with the Remediation / Validation Criteria provided in Appendix B.

With regards to chemical suitability, imported soils shall be analysed in the laboratory as a minimum for:

- Asbestos fibres
- Metals suite (arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium, zinc)
- PAH (US EPA suite of 16)
- TPH CWG

Laboratory analysis on imported products should be completed at a frequency of approximately 1 sample per 500m³. Testing results provided by the supplier would be acceptable if completed at a reputable laboratory using appropriate testing methodology. Additional testing suites may be required depending on the origin of the material, which would need to be confirmed by the supplier. The results shall be compared to the Remediation / Validation Criteria presented in Appendix B and confirmation as to the suitability sought from the Environmental Consultant.

Soils imported to DP4 from stockpiles generated by earlier development phases (DP1 to DP3) may require confirmatory laboratory analysis (at a frequency of 1 sample per 200m³), depending on their origin, to demonstrate suitability. Initially the analytical results shall be screened against the Remediation / Validation Criteria presented in Appendix B. The testing suite used to characterise the soils shall be consistent with the anticipated contaminants of concern in respect to the source of the material; analysis for all of the contaminants listed in Appendix B may not necessarily be required.

Records shall be maintained of soil imported to DP4 North (from within and outside of the wider Woodford Aerodrome site) or treated for re-use within DP4, including the origin of the material, analytical results and any justification required to confirm suitability. Records shall be included in the final Validation Report.

4.9 GROUND GAS PROTECTION MEASURES

Residential Area R3 – Classified as Amber 2 / CIRIA Characteristic Situation 3

The WSP Gas Report classified this area as Amber 2 / CIRIA Characteristic Situation 3, for which fairly significant gas protection measures are required. The R3 area was defined on the basis of ground gas monitoring results from one monitoring well (WS179) and extrapolation of the data to incorporate the entire area in which peat was encountered. Given the uncertainty associated with the extent of Area R3, it is recommended that supplementary ground gas monitoring and assessment is undertaken by Harrow Estates or the residential developer to provide robust recommendations for gas protection measures in properties in Area R3. The gas risk areas are summarised on Figure 3 in Appendix A.

Residential Area R2 – Classified as Green / CIRIA Characteristic Situation 1

Whilst properties in this area do not require gas protection measures, the southern part of the area is adjacent to Area A3, which is classified as Amber 1 / CIRIA Characteristic Situation 2, requiring basic gas protection measures to be installed. It is recommended that supplementary ground gas monitoring and assessment is undertaken by the residential developer along the southern boundary of Area R3 to provide robust recommendations for gas protection measures in properties in the southern part of Area R2.

Installation and Validation of Gas Protection Measures

Where gas protection measures are required for new buildings, they should be designed, installed and verified by suitably qualified professionals in accordance with the relevant guidance (BS8485: 2015 – Code of Practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings).

This Remediation Strategy will need to be updated with any further gas risk assessments to confirm gas protection measures required in the Residential Area.

Validation of any installed gas protection measures should be completed in accordance with relevant guidance and will be the responsibility of the residential developer.

4.10 POTABLE WATER SUPPLY PIPES

Based on the results obtained from the 2014 investigation for the majority of the Residential Area, it is considered unlikely that potable water supply pipes will need upgrading to more robust materials as a result of chemical contamination in soils.

When the proposed route of potable water supply pipes has been finalised, a United Utilities water supply pipeline risk assessment should be undertaken on the basis of information obtained in all phases of previous investigation and possible further shallow investigation in some areas. This will need to be submitted to United Utilities for their acceptance.

4.11 REMEDIATION VALIDATION DOCUMENTATION

All contamination-related remedial works undertaken prior to development (by Harrow Estates) and during construction (by the end-developer) shall be fully documented in completion / validation reports, which shall be forwarded to the Contaminated Land Officer at Stockport Council following completion of the works. The reports shall include the following:

Prior to construction:

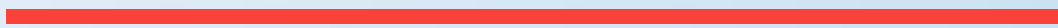
- Precautions taken to prevent exposure to asbestos fibres during the works.
- Information regarding unexpected contamination encountered and evidence of possible burning grounds / radiological contamination.
- The extent of areas subject to remedial works (if any).
- Volumes of soil exported from / imported to DP4 North.
- Soil / water sampling and laboratory analysis results.
- Risk assessments
- Waste classification assessments (for soils taken off site for disposal).
- Details of material re-use / treatment / off-site disposal.
- Details of where Remediation Criteria have been exceeded and robust justification / risk assessment to demonstrate soils are suitable for use

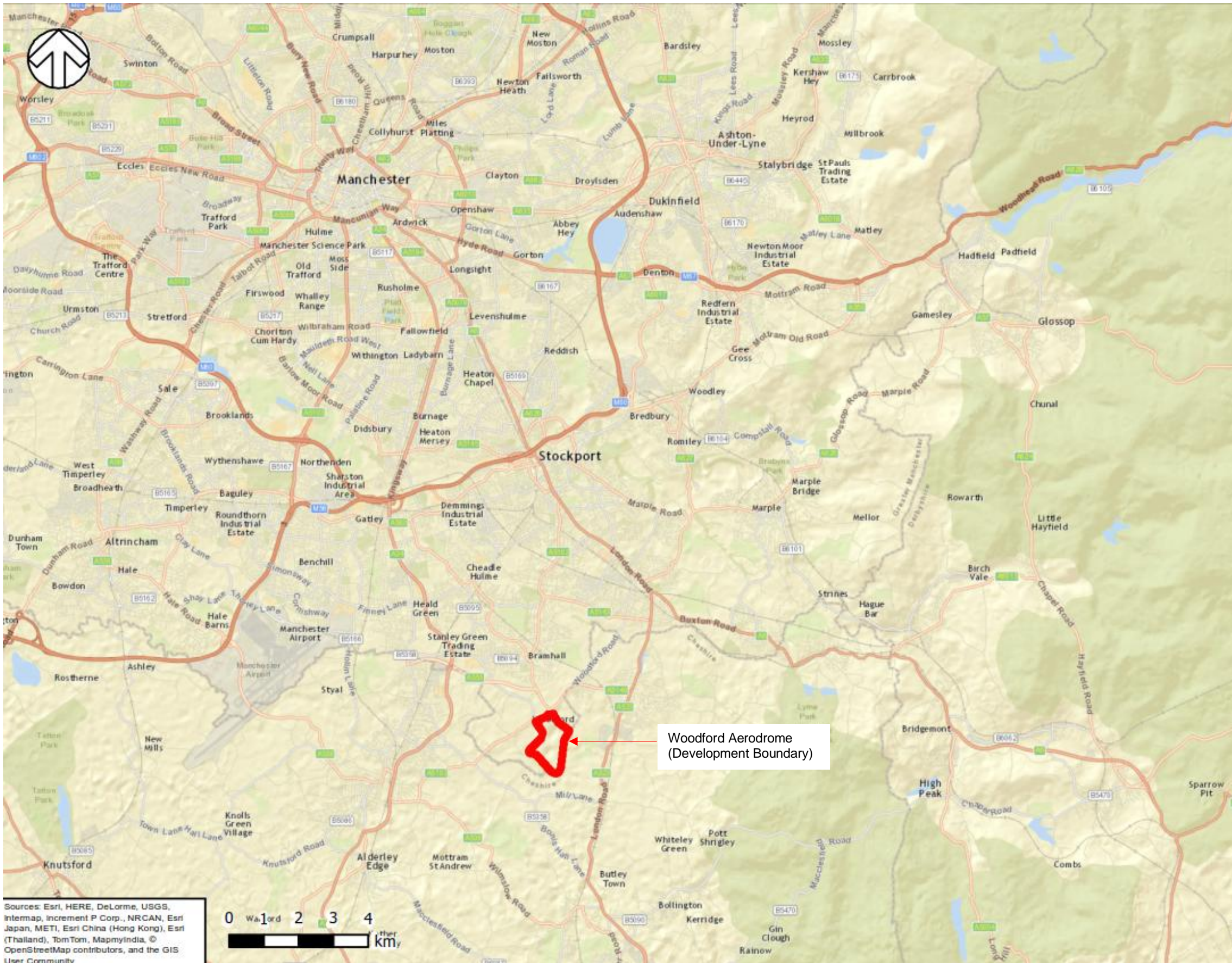
Following construction:

- Validation of garden and landscaped areas provided with clean soil cover systems if required (to include soil testing results and confirmation of depths).
- Validation of gas membrane installation.
- Validation of vapour membrane installation (if required) according to best practice.

Appendix A

FIGURES AND MASTERPLAN

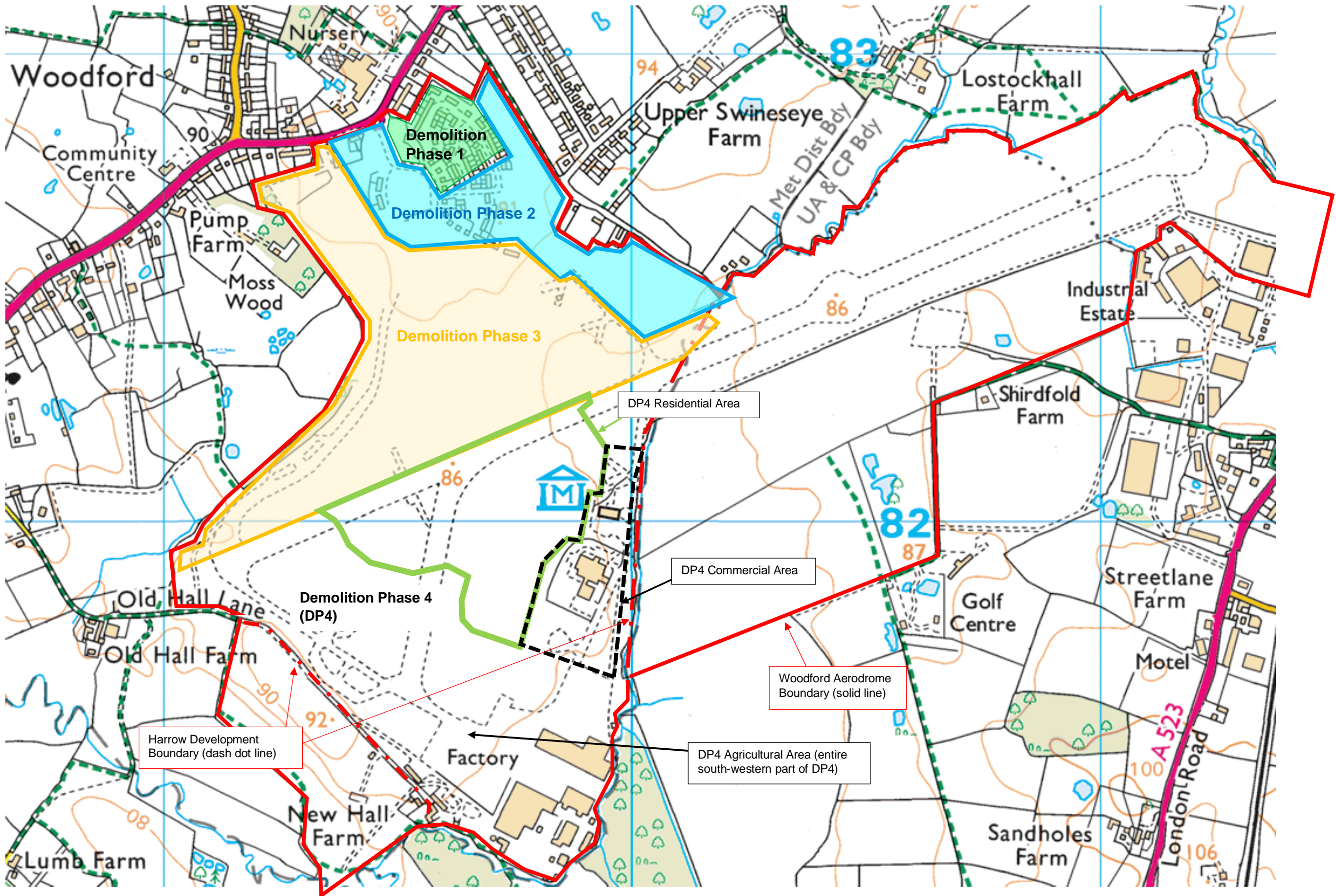




TITLE:
70079453 Woodford Aerodrome DP4

FIGURE No.:
Figure 1: Site Location Plan





Basemap from Streetmap.co.uk 2021







TITLE:
70079453 Woodford Aerodrome DP4

FIGURE No.:
Figure 2: Indicative Boundaries Plan





KEY:

-  Demolition Phase 4 Boundary
-  Residential Area – Approximate boundary (part of DP4 North)
-  Commercial Area – Approximate boundary (part of DP4 North)
-  Boundary between DP4 North and DP4 South
-  Shird Fold Farm Brook and Red Brook – Approximate Route
-  Gas Risk Area – increased risk from ground gases – gas protection measures required for buildings

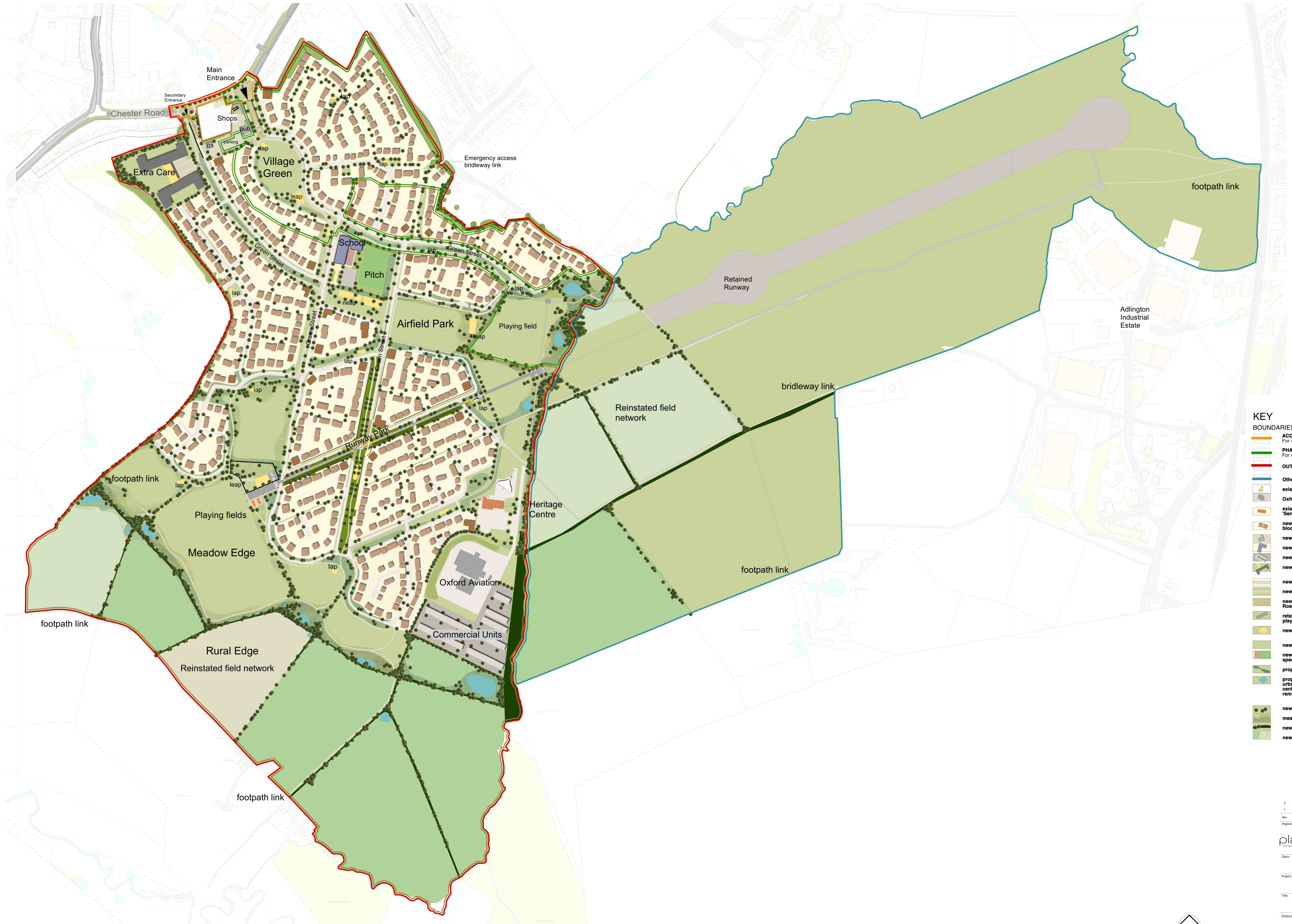
Note: Figure Not to Scale – Do not Scale

Image from Google Maps 2021

TITLE:
70079453 Woodford Aerodrome DP4

FIGURE No.:
Figure 3: DP4 North Remediation Summary Plan





KEY

BOUNDARIES

- **ACCESS BOUNDARY**
For determination
- **PHASE 1 APPLICATION BOUNDARY**
For determination
- **OUTLINE APPLICATION BOUNDARY**
- **Other Land Ownership**
- existing buildings around the site
- Oxford Aviation building to be retained
- existing fire station retained with relocated 'Sentinel' Vulcan bomber
- new development plots & notional housing blocks
- new shop and pub & d1 units
- new school
- new commercial units
- new Extra Care blocks
- new roads & driveways
- new pedestrian/cycle routes
- new high quality entrance treatment to Chester Road and Entrance area
- retained runway remnant sections used as parks, play or parking areas
- new play areas - LAP's, LEAP's & NEAP's
- new public open space
- new school grounds - pitch and playground spaces
- proposed swale (sustainable urban drainage)
- proposed attenuation field pond (sustainable urban drainage)
- central watercourse - widened and culvert removed
- new tree planting
- meadow edge planting & wildflower
- new hedgerows and field boundary tree planting
- new fields managed for agricultural uses.

2	03.04.14	REVISED ISSUE	JT	JW
1	09.10.13	PLANNING ISSUE	GW	JW
Rev	Date	Description	Drawn	Checked
Originator:				

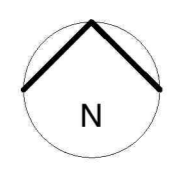
2 Back Oulton @ 01143 450000
 T +44(0)1161 825 0001 F +44(0)1161 825 0002
 E mail@planit.co.uk W www.planit.co.uk

Client: **HARROW ESTATES**

Project: **WOODFORD**

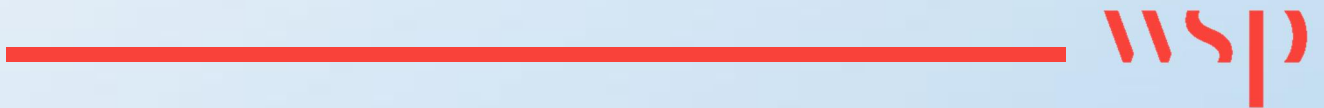
Title: **ILLUSTRATIVE MASTERPLAN**

Status:	PLANNING
Designed:	SF
Drawn:	SF
Checked:	JW
Scale:	1:2500
Date:	09.10.13
Approved:	PS
Revision:	

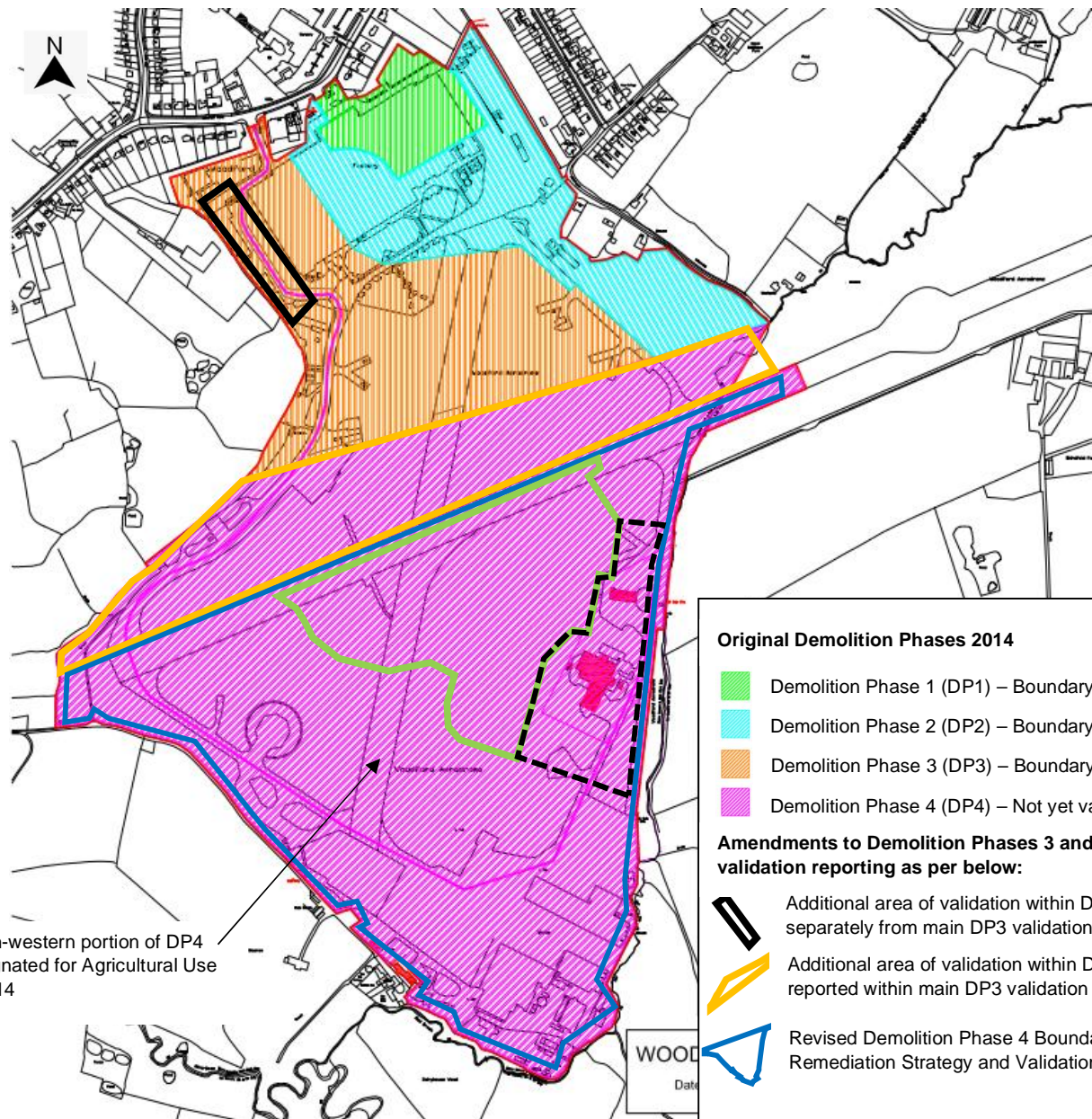


Appendix B

DP3 / DP4 BOUNDARY CHANGE
INFORMATION







**Woodford Aerodrome – Demolition Phases investigated and validated by WSP
DP4 Remediation Strategy Appendix B**






South-western portion of DP4 Designated for Agricultural Use in 2014



Original Demolition Phases 2014

-  Demolition Phase 1 (DP1) – Boundary unchanged
-  Demolition Phase 2 (DP2) – Boundary unchanged
-  Demolition Phase 3 (DP3) – Boundary amended
-  Demolition Phase 4 (DP4) – Not yet validated

Amendments to Demolition Phases 3 and 4 during validation reporting as per below:

-  Additional area of validation within DP3 – reported separately from main DP3 validation report
-  Additional area of validation within DP3 – reported within main DP3 validation report
-  Revised Demolition Phase 4 Boundary for Remediation Strategy and Validation

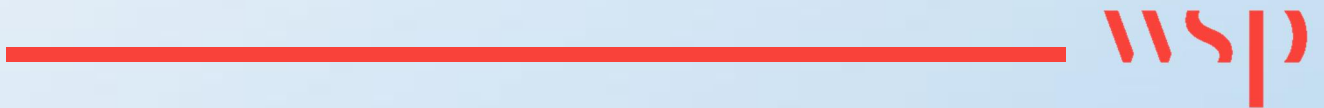
Demolition Phase 4 Proposed Land Uses in 2014

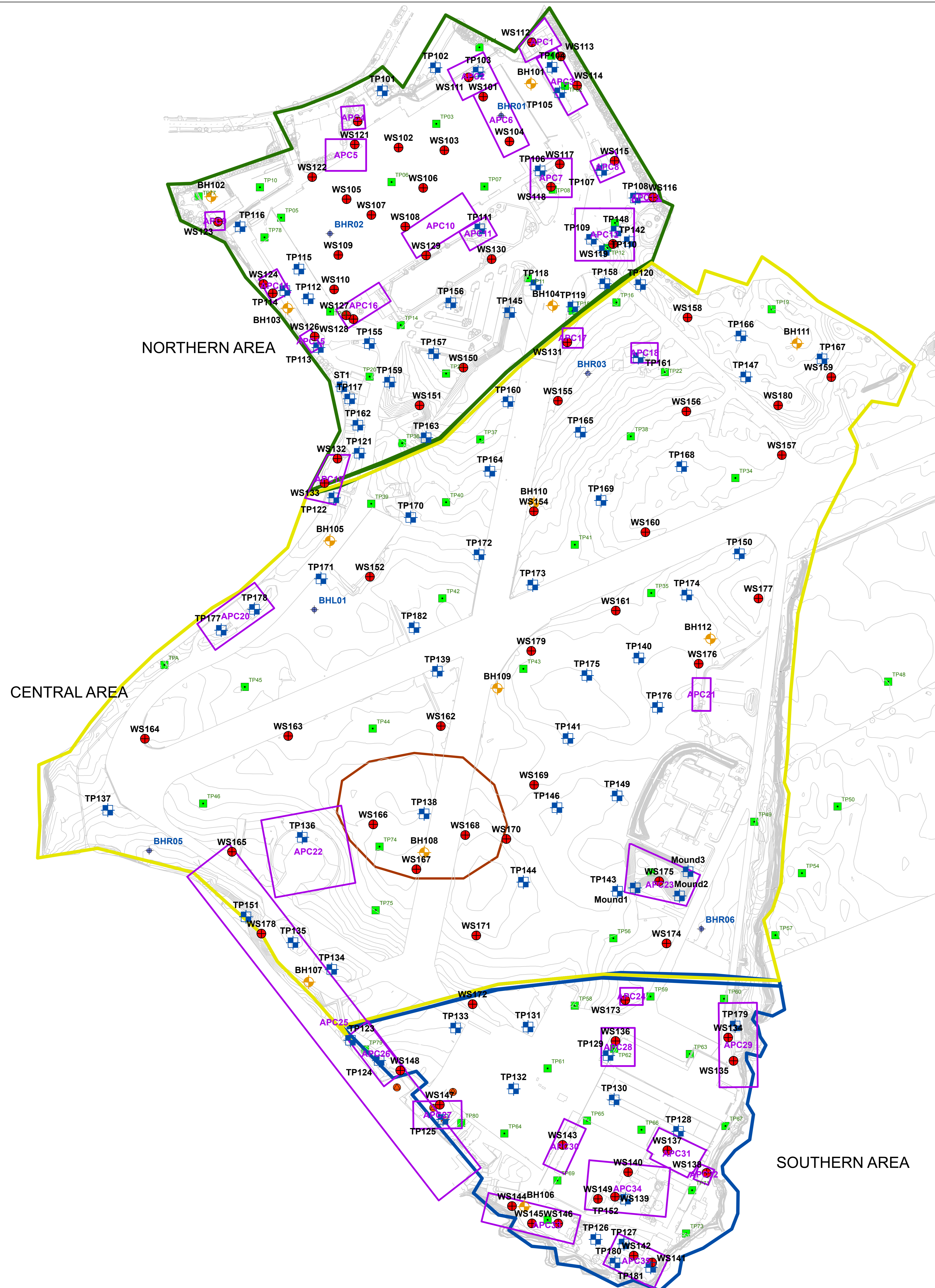
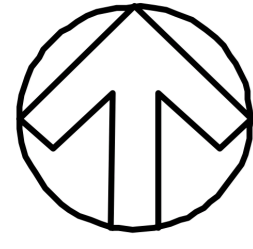
-  Portion of Demolition Phase 4 that was proposed for Residential Use in 2014
-  Portion of Demolition Phase 4 that was proposed for Commercial Use in 2014

South-western portion of DP4 Designated for Agricultural Use in 2014

Appendix C

PREVIOUS GROUND INVESTIGATION
INFORMATION

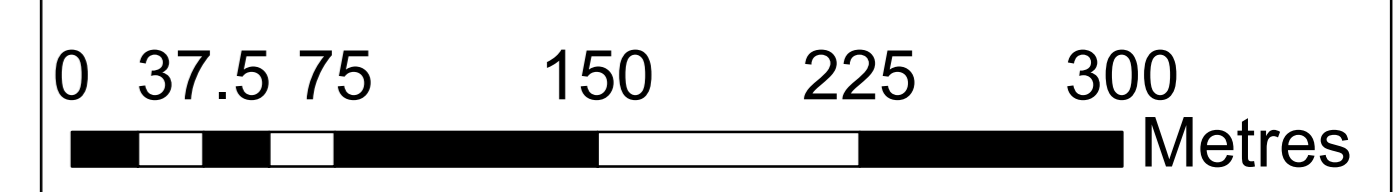




Legend

- Area of Potential Concern (APC)
 - Approximate Location of Peat Deposit
 - BAE Trial Pits
 - + BAE Monitoring Wells
- WSP Exploratory Hole Locations 2014**
- HoleTypeDescription**
- + Cable Percussion (shell and auger)
 - + Trial Pit/trench
 - Windowless sampler

Contains Ordnance Survey data © Crown copyright and database right 2014.




DRAWING STATUS: REV05, 10 DEC 2014		
<p>WSP, THE VICTORIA, THE QUAYS, MANCHESTER, M50 3SP</p>		
CLIENT: HARROW ESTATES PLC		
ARCHITECT:		
PROJECT: WOODFORD AERODROME		
TITLE: FIGURE 3: HISTORICAL AND WSP EXPLORATORY HOLE LOCATIONS 16 DEC 2014		
SCALE @ A1: WSP - A0 Landscape	CHECKED: PG	APPROVED:
CAD FILE:	DESIGN-DRAWN:	DATE:
PROJECT No: 70004430	DRAWING No:	REV: A
© WSP Group plc		

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389389.61 N - 382143.52	GROUND ELEVATION (mAOD) 86.666	HOLE DEPTH (m) 10.00	Sheet 1 of 1	BOREHOLE BHL01
METHOD	CASING	DATE 18/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.30	0.00	D		86.666	(0.20)	0.20	Soft brown sandy SILT with organic odour [Topsoil].			
0.80	0.00	D		86.666	(1.10)	1.10	Soft to firm brown sandy slightly silty CLAY with some subangular to subrounded gravel.			
1.30	0.00	D		86.666	1.30	1.30	Firm blue grey CLAY with some fine to medium subangular to subrounded gravel of mixed lithology.			
1.50	1.95	S	N=13 (1, 2 - 2, 3, 4, 4)		(0.80)	0.80				
1.50	0.00	SPTLS		85.866		2.10				
2.10	0.00	D		85.866		2.10	Red brown slightly silty SAND with occasional to some fine subrounded gravel of mixed lithology.			
2.50	2.95	S	N=15 (1, 2 - 2, 3, 5, 5)			2.95				
2.50	0.00	SPTLS		84.366		3.00				
3.00	0.00	D		84.366		3.00	Very soft red brown very sandy SILT with occasional fine angular to subrounded gravel.			
3.50	3.95	S	N=11 (1, 2 - 2, 2, 3, 4)			3.95				
3.50	0.00	SPTLS		83.366		4.00				
4.00	0.00	D		83.366		4.00	Very soft to firm clayey red brown sandy SILT with occasional fine subrounded gravel. Sand content and density increases with depth.			
4.50	4.95	S	N=0 (0, 0 - 0, 0, 0, 0)			4.95				
4.50	0.00	SPTLS		82.366		5.00				
5.00	0.00	D		82.366		5.00				
6.00	6.45	S	N=11 (1, 2 - 3, 2, 3, 3)			6.45				
6.00	0.00	SPTLS		81.366		6.00				
6.50	0.00	D		81.366		6.50				
7.50	7.95	S	N=2 (1, 0 - 0, 1, 0, 1)			7.95				
7.50	0.00	SPTLS		80.366		7.50				
8.00	0.00	D		80.366		8.00				
9.00	9.45	S	N=12 (1, 2 - 2, 3, 4, 3)			9.45				
9.00	0.00	SPTLS		79.366		9.00				
9.50	0.00	D		79.366		9.50				
				78.366		10.00				

End of Borehole at 10.00 m

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Water added 2.20m bgl to 4.50m bgl. Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390504.87 N - 381930.03	GROUND ELEVATION (mAOD) 85.575	HOLE DEPTH (m) 10.00	Sheet 1 of 1	BOREHOLE BHL02
METHOD	CASING	DATE 19/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.40	0.00	D		85	(0.30)	0.30	MADE GROUND: Brown sandy silt with organic odour.			
					(1.10)	1	MADE GROUND: Mottled orange brown clay with gravel and occasional lenses of topsoil			
1.50	1.95	S	N=10 (1, 2 - 2, 3, 2, 3)			1.40	Brown silty SAND.			
1.50	0.00	SPTLS			(0.50)					
2.00	0.00	D		84		1.90	Very soft brown thinly laminated slightly silty, slightly sandy CLAY.			
					(0.50)	2				
2.50	2.95	S	N=11 (1, 2 - 2, 3, 3, 3)			2.40	Brown slightly silty medium to coarse SAND of quartz, coal, sandstone and limestone.			
2.50	0.00	SPTLS								
3.00	0.00	D		83						
3.50	3.95	S	N=16 (2, 3 - 4, 3, 4, 5)			(2.50)				
3.50	0.00	SPTLS								
4.00	0.00	D		82		4				
4.50	4.95	S	N=23 (3, 4 - 5, 6, 6, 6)			4.90	Soft brown very sandy SILT.			
4.50	0.00	SPTLS								
5.00	0.00	D		81		5				
5.50	5.95	S	N=8 (1, 1 - 2, 1, 2, 3)			(1.10)				
5.50	0.00	SPTLS								
6.00	0.00	D		80		6	Brown slightly silty medium to coarse SAND with some fine to medium gravel.			
7.00	7.45	S	N=15 (2, 2 - 4, 3, 4, 4)			(1.50)				
7.00	0.00	SPTLS								
7.50	0.00	D		79		7				
7.50	0.00	D		78		7.50	Stiff to very stiff brown thinly laminated slightly sandy SILT with occasional fine angular to subrounded gravel.			
8.50	8.95	S	N=31 (3, 5 - 6, 7, 9, 9)			(2.50)				
8.50	0.00	SPTLS								
9.00	0.00	D		77		9				
9.50	9.95	S	N=36 (4, 6 - 8, 8, 9, 11)							
9.50	0.00	SPTLS								
						10.00	End of Borehole at 10.00 m			

GROUNDWATER		REMARKS	KEY
DEPTH (m)	BEHAVIOUR		
3.10	Rose to 2.60 after 20 mins	Material logged in general accordance with BS EN ISO 14688	<ul style="list-style-type: none"> B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		BAE SYSTEMS	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390615.20 N - 382739.38	GROUND ELEVATION (mAOD) 86.859	HOLE DEPTH (m) 10.00	Sheet 1 of 1	BOREHOLE BHL03
METHOD	CASING	DATE 16/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.30	0.00	D		0.30	(0.30)		Soft brown sandy SILT with organic odour [Topsoil].			
0.90	0.00	D		86	(1.10)	1	Soft very sandy orange mottled grey CLAY.			
1.50	1.95	S	N=3 (1, 2 - 1, 0, 1, 1)	1.40			Grey silty medium to coarse SAND with occasional fine gravel. Wood at base of stratum.			
1.50	0.00	SPTLS		85	(1.40)	2				
2.20	0.00	D		2.50			Firm brown sandy SILT / CLAY with fine subangular gravel of mixed lithology.			
2.50	2.95	S	N=10 (2, 1 - 2, 2, 3, 3)	2.80						
2.50	0.00	SPTLS		84	(2.00)	3				
3.20	0.00	D		3.50			Brown slightly silty medium to coarse SAND with fine subrounded gravel and occasional clay lenses.			
3.50	3.95	S	N=20 (2, 3 - 4, 5, 5, 6)	4.20						
3.50	0.00	SPTLS		83	(2.00)	4				
4.20	0.00	D		4.50			Firm brown silty CLAY with some fine gravel.			
4.50	4.95	S	N=22 (3, 4 - 5, 5, 6, 6)	4.80						
4.50	0.00	SPTLS		82	(3.50)	5				
5.20	0.00	D		5.50			Firm brown silty CLAY with some fine gravel.			
5.50	5.95	C	N=32 (3, 5 - 7, 8, 8, 9)	6.00						
5.50	0.00	SPTLS		81	(3.50)	6				
6.00	0.00	D		7.00			Firm brown silty CLAY with some fine gravel.			
7.00	7.45	S	N=36 (4, 6 - 6, 7, 11, 12)	7.60						
7.00	0.00	SPTLS		79	(1.70)	8				
7.60	0.00	D		8.50			Firm brown silty CLAY with some fine gravel.			
8.50	0.00	D		8.30						
9.50	9.95	S	N=43 (3, 5 - 9, 11, 13, 10)	78	(1.70)	9				
9.50	0.00	SPTLS		10.00						

GROUNDWATER DEPTH (m) BEHAVIOUR 4.80 Rose to 3.61 after 20 mins		REMARKS Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390968.90 N - 382462.75	GROUND ELEVATION (mAOD) 88.409	HOLE DEPTH (m) 10.00	Sheet 1 of 1	BOREHOLE BHL04
METHOD	CASING	DATE 17/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
				0.30	(0.30)		Soft brown sandy SILT with organic odour [Topsoil].			
0.50	0.00	D					Grey silty SAND with subangular to subrounded gravel.			
1.00	0.00	D		87	(1.30)	1				
1.50	1.95	S	N=2 (1, 0 - 0, 0, 1, 1)							
1.50	0.00	SPTLS				1.60	Soft grey sandy SILT . Slight organic odour.			
2.00	0.00	D		86	(0.70)	2				
2.50	2.95	S	N=23 (2, 4 - 5, 6, 5, 7)							
2.50	0.00	SPTLS				2.30	Soft to firm red brown sandy CLAY / SILT with much fine subrounded gravel. Clay content increases with depth.			
3.00	0.00	D		85		3				
3.50	3.95	S	N=27 (3, 4 - 6, 7, 7, 7)							
3.50	0.00	SPTLS				(2.20)				
4.00	0.00	D		84		4				
4.50	4.95	S	N=18 (2, 3 - 3, 4, 5, 6)							
4.50	0.00	SPTLS				4.50	Soft to firm brown thinly laminated slightly sandy very clayey SILT.			
5.00	0.00	D		83		5				
5.50	5.95	S	N=20 (2, 4 - 4, 5, 6, 5)							
5.50	0.00	SPTLS								
6.00	0.00	D		82		6				
7.00	7.45	S	N=28 (3, 5 - 6, 7, 7, 8)							
7.00	0.00	SPTLS				(5.50)				
7.50	0.00	D		81		7				
8.50	8.95	S	N=20 (2, 3 - 5, 4, 5, 6)							
8.50	0.00	SPTLS								
9.50	9.95	S	N=24 (3, 4 - 5, 6, 7, 6)							
9.50	0.00	SPTLS		79		9				
						10.00	End of Borehole at 10.00 m			

GROUNDWATER DEPTH (m) 6.80	BEHAVIOUR Rose to 6.75 after 20 mins	REMARKS Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389648.17 N - 382814.37	GROUND ELEVATION (mAOD) 90.906	HOLE DEPTH (m) 25.00	Sheet 1 of 3	BOREHOLE BHR01
METHOD	CASING	DATE 27/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
						(0.40)	MADE GROUND: Concrete			
						0.40	MADE GROUND: Brown sand with gravel of concrete, brick and bitumen.			
1.20	1.65	S	N=21 (4, 6 - 8, 6, 4, 3)	90		1				
1.20	0.00	SPTLS				1.30	Stiff to very stiff brown sandy slightly silty CLAY with subrounded to subangular gravel.			
1.75	0.00	D								
2.00	2.45	S	N=7 (1, 2 - 1, 2, 2, 2)	89		2				
2.00	0.00	SPTLS								
3.00	3.45	S	N=10 (1, 2 - 2, 3, 2, 3)	88		3				
3.00	0.00	SPTLS				(3.70)				
4.00	4.45	S	N=10 (1, 2 - 3, 2, 3, 2)	87		4				
4.00	0.00	SPTLS								
5.00	5.45	S	N=29 (3, 4 - 6, 8, 7, 8)	86		5	Red brown silty medium to coarse SAND with some fine to medium subrounded to rounded gravel. Variable silt content with depth.			
5.00	0.00	SPTLS								
6.50	6.95	S	N=26 (4, 5 - 7, 6, 7, 6)	85		6				
6.50	0.00	SPTLS								
8.00	8.45	S	N=27 (3, 4 - 6, 7, 6, 8)	84		7				
8.00	0.00	SPTLS				(4.30)				
8.00	8.45	S	N=27 (3, 4 - 6, 7, 6, 8)	83		8				
8.00	0.00	SPTLS								
9.50	9.95	S	N=14 (2, 3 - 3, 4, 3, 4)	82		9				
9.50	0.00	SPTLS				9.30	Soft to firm red brown very sandy SILT. Some lenses of grey brown silty sand.			

Continued next sheet

GROUNDWATER DEPTH (m) BEHAVIOUR 13.00 Rose to 11.50 after 20 mins	REMARKS Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		BAE SYSTEMS	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389648.17 N - 382814.37	GROUND ELEVATION (mAOD) 90.906	HOLE DEPTH (m) 25.00	Sheet 2 of 3	BOREHOLE BHR01
METHOD	CASING	DATE 27/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
11.00 11.00	11.45 0.00	S SPTLS	N=16 (2, 3 - 4, 3, 4, 5)	80	(3.70)	11	Soft to firm red brown very sandy SILT. Some lenses of grey brown silty sand.			
12.50 12.50	12.95 0.00	S SPTLS	N=14 (3, 4 - 3, 4, 3, 4)	79		12				
13.50 13.50	13.95 0.00	S SPTLS	N=9 (2, 1 - 2, 2, 2, 3)	78	13.00	13	Red brown slightly silty SAND with subangular to subrounded gravel.			
14.50 14.50	14.95 0.00	S SPTLS	N=11 (1, 2 - 3, 2, 3, 3)	77		14				
16.00	0.00	D		76		15				
17.00	0.00	D		75	16.00	16	Firm red brown thinly laminated slightly sandy SILT.			
18.00	0.00	D		74		17				
19.00	0.00	D		73	(3.30)	18				
20.00	0.00	D		72	19.30	19	Red brown silty fine to medium SAND with some subangular gravel of mixed lithology.			


Continued next sheet




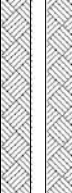

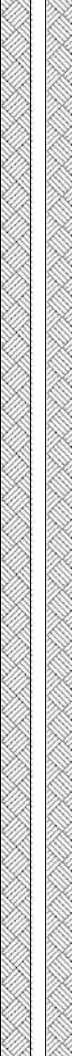


GROUNDWATER DEPTH (m) BEHAVIOUR 13.00 Rose to 11.50 after 20 mins	REMARKS Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389648.17 N - 382814.37	GROUND ELEVATION (mAOD) 90.906	HOLE DEPTH (m) 25.00	Sheet 3 of 3	BOREHOLE BHR01
METHOD	CASING	DATE 27/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
21.00	0.00	D		70		21	Red brown silty fine to medium SAND with some subangular gravel of mixed lithology.			
				(4.70)		22				
22.00	0.00	D		69		22				
				68		23				
23.00	0.00	D		68		23				
				67		24	Firm red brown very sandy thinly laminated SILT.			
				(1.00)		25				
				66		25	End of Borehole at 25.00 m			
				65		26				
				64		27				
				63		28				
				62		29				







GROUNDWATER DEPTH (m) BEHAVIOUR 13.00 Rose to 11.50 after 20 mins	REMARKS Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389417.39 N - 382654.34	GROUND ELEVATION (mAOD) 90.776	HOLE DEPTH (m) 34.00	Sheet 1 of 4	BOREHOLE BHR02
METHOD	CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.00	0.45		N=0 (0, 0 - 0, 0, 0, 0)		(0.25)		MADE GROUND: Concrete			
0.30	0.00	D			0.25		MADE GROUND: Brown sand with gravel of concrete, brick and bitumen.			
0.60	0.00	D								
1.50	1.95	S	N=13 (1, 2 - 3, 3, 4, 3)		1.40		Soft black sandy SILT with some subangular gravel.			
1.50	0.00	SPTLS								
2.00	0.00	D			(0.90)		Firm brown slightly sandy CLAY with some fine to medium subrounded gravel			
2.50	2.95	S	N=15 (2, 3 - 3, 4, 3, 5)		2.30					
2.50	0.00	SPTLS								
3.00	0.00	D								
3.50	3.95	S	N=28 (4, 5 - 6, 7, 7, 8)							
3.50	0.00	SPTLS								
4.00	0.00	D								
4.50	4.95	S	N=25 (3, 5 - 5, 6, 7, 7)							
4.50	0.00	SPTLS								
5.00	0.00	D								
5.50	5.95	S	N=24 (3, 4 - 5, 6, 6, 7)							
5.50	0.00	SPTLS								
6.00	0.00	D			(7.00)					
7.00	7.45	S	N=28 (4, 5 - 6, 7, 7, 8)							
7.00	0.00	SPTLS								
7.50	0.00	D								
8.50	8.95	S	N=21 (3, 4 - 4, 5, 6, 6)							
8.50	0.00	SPTLS								
9.00	0.00	D								
9.30	0.00	D			9.30		Soft orange brown sandy SILT.			
10.00	10.45	S	N=14 (2, 3 - 3, 4, 3, 4)				Continued next sheet			
10.00	0.00	SPTLS								

GROUNDWATER DEPTH (m)	BEHAVIOUR	REMARKS Water added 9.0m bgl to 11.3m bgl; 11.5m bgl to 33.0m bgl	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
		Material logged in general accordance with BS EN ISO 14688	BAE Cable Percussion Log v1.4

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389417.39 N - 382654.34	GROUND ELEVATION (mAOD) 90.776	HOLE DEPTH (m) 34.00	Sheet 2 of 4	BOREHOLE BHR02
METHOD	CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
10.50	0.00	D				(2.20)	Soft orange brown sandy SILT.			
11.50 11.50	11.95 0.00	S SPTLS	N=7 (1, 0 - 1, 2, 2, 2)			11.50				
12.00	0.00	D					Soft orange brown very sandy SILT with fine subrounded gravel. Variable sand content with depth.			
13.00 13.00	13.45 0.00	S SPTLS	N=1 (1, 0 - 0, 1, 0, 0)			(3.10) 13				
13.50	0.00	D								
14.50 14.50	14.95 0.00	S SPTLS	N=12 (1, 2 - 3, 3, 2, 4)			14.60				
15.00	0.00	D					Firm red brown thinly laminated very sandy SILT with fine to medium subrounded gravel.			
16.00	0.00	D								
17.00	0.00	D								
18.00	0.00	D				(6.00)				
19.00	0.00	D								

Continued next sheet


GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Water added 9.0m bgl to 11.3m bgl; 11.5m bgl to 33.0m bgl	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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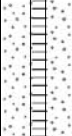

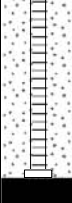

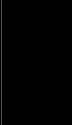



SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389417.39 N - 382654.34	GROUND ELEVATION (mAOD) 90.776	HOLE DEPTH (m) 34.00	Sheet 3 of 4	BOREHOLE BHR02
METHOD	CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
20.60	0.00	D		20.60			Firm red brown thinly laminated very sandy SILT with fine to medium subrounded gravel.			
21.00	0.00	D		21.00	(0.40)	21	Brown sandy subangular to subrounded GRAVEL of mixed lithology.			
22.00	0.00	D		22.00		22	Red brown slightly silty SAND with some fine subrounded gravel of coal.			
23.00	0.00	D		23.00		23				
24.00	0.00	D		24.00		24				
26.00	0.00	D		26.00		26	Red brown very sandy SILT with some fine subrounded gravel of coal.			
28.50	0.00	D		28.50	(5.70)	29				

Continued next sheet

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Water added 9.0m bgl to 11.3m bgl; 11.5m bgl to 33.0m bgl	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389417.39 N - 382654.34	GROUND ELEVATION (mAOD) 90.776	HOLE DEPTH (m) 34.00	Sheet 4 of 4	BOREHOLE BHR02
METHOD	CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
31.50	0.00	D		59 31.40		31	Red brown very sandy SILT with some fine subrounded gravel of coal.			
				(1.30) 32		58 32.70	Red brown medium to coarse SAND with some fine to medium gravel.			
33.50	0.00	D		(0.80) 33		57 33.50	Stiff brown sandy slightly silty CLAY with fine to medium gravel.			
				(0.50) 34		56 34.00	Red brown slightly silty medium to coarse SAND with fine subrounded to rounded gravel.			
							End of Borehole at 34.00 m			

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Water added 9.0m bgl to 11.3m bgl; 11.5m bgl to 33.0m bgl	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389765.49 N - 382461.52	GROUND ELEVATION (mAOD) 88.523	HOLE DEPTH (m) 27.00	Sheet 1 of 3	BOREHOLE BHR03
METHOD	CASING	DATE 25/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA					
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.00	0.45		N=0 (0, 0 - 0, 0, 0, 0)		(0.30)	Soft brown sandy SILT with organic odour [Topsoil].			
0.00	0.00				0.30				
0.50	0.00	D		88	1	Soft red brown very sandy SILT with occasional coarse subrounded gravel.			
1.50	1.95	S	N=11 (1, 2 - 2, 3, 3, 3)		(2.50)				
1.50	0.00	D		87	2				
2.00	0.00	D			2				
2.50	2.95	S	N=6 (1, 0 - 1, 1, 2, 2)		2.80				
2.50	0.00	D		86	3	Red brown very silty SAND with gravel.			
3.00	0.00	D			3				
3.50	3.95	S	N=12 (1, 2 - 2, 3, 3, 4)		(1.10)				
3.50	0.00	D		85	4	Very soft sandy SILT with occasional to some subangular to subrounded gravel.			
4.00	0.00	D			4				
4.50	4.95	S	N=6 (1, 0 - 0, 1, 2, 3)		(0.90)				
4.50	0.00	D		84	5	Firm red brown slightly sandy SILT with occasional fine subangular to subrounded gravel.			
5.00	0.00	D			5				
5.50	5.95	S	N=20 (3, 4 - 5, 4, 5, 6)		(1.30)				
5.50	0.00	D		83	6	Very soft to soft red brown very silty slightly clayey SAND.			
6.10	0.00	D			6				
7.00	7.45	S	N=13 (4, 5 - 4, 3, 3, 3)		(1.90)				
7.00	0.00	D		82	7				
7.70	0.00	D			7				
8.00	0.00	D		81	8	Soft brown thinly laminated sandy SILT.			
8.50	8.95	S	N=12 (1, 2 - 2, 3, 4, 3)		(1.80)				
8.50	0.00	D			8				
9.00	0.00	D		80	9				
10.00	10.45	S	N=29 (3, 5 - 6, 7, 8, 8)		9.80				
10.00	0.00	D				Continued next sheet			

GROUNDWATER		REMARKS	KEY
DEPTH (m)	BEHAVIOUR		
16.30	Rose to 14.45 after 20 mins	Water added between 2.0m bgl and 9.0m bgl	<ul style="list-style-type: none"> B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		BAE SYSTEMS	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389765.49 N - 382461.52	GROUND ELEVATION (mAOD) 88.523	HOLE DEPTH (m) 27.00	Sheet 2 of 3	BOREHOLE BHR03
METHOD	CASING	DATE 25/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA									
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL			
10.50	0.00	D				11	Soft to firm thinly laminated brown clayey slightly sandy SILT. Clay content is variable with depth.						
11.50	11.95	S	N=28 (4, 8 - 7, 6, 7, 8)	77		12							
12.00	0.00	D		76		13							
13.00	13.45	S	N=15 (2, 3 - 3, 4, 3, 5)	75	(6.50)	14							
13.50	0.00	D		74		15							
14.50	14.95	S	N=20 (2, 4 - 4, 5, 6, 5)	73		16							
15.00	0.00	D		72		17							
16.50	0.00	D		71	16.30	18					Red brown very silty SAND with some to much fine subangular gravel of mixed lithology. Silt content decreases with depth.		
17.50	0.00	D		70	(3.50)	19							
18.50	0.00	D		69		19							
19.50	0.00	D		19.80			Firm to stiff sandy SILT with occasional						


GROUNDWATER		REMARKS	KEY
DEPTH (m)	BEHAVIOUR		
16.30	Rose to 14.45 after 20 mins	Water added between 2.0m bgl and 9.0m bgl	<ul style="list-style-type: none"> B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)



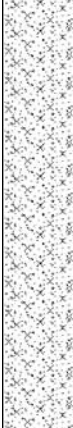



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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389765.49 N - 382461.52	GROUND ELEVATION (mAOD) 88.523	HOLE DEPTH (m) 27.00	Sheet 3 of 3	BOREHOLE BHR03
METHOD	CASING	DATE 25/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
20.50	0.00	D					some fine subrounded gravel.			
21.50	0.00	D		67		21				
22.50	0.00	D		66		22	Firm to stiff brown slightly sandy SILT.			
23.50	0.00	D		65		23				
25.00	0.00	D		64		24				
26.00	0.00	D		63		25				
				62		26	Soft brown thinly laminated sandy SILT.			
				61		27	End of Borehole at 27.00 m			
				60		28				
				59		29				



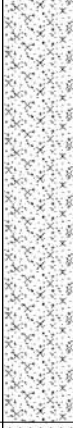

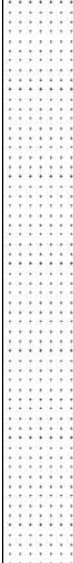
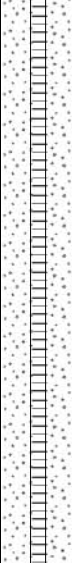
GROUNDWATER DEPTH (m) BEHAVIOUR 16.30 Rose to 14.45 after 20 mins	REMARKS Water added between 2.0m bgl and 9.0m bgl Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 391296.90 N - 382714.55	GROUND ELEVATION (mAOD) 90.193	HOLE DEPTH (m) 21.80	Sheet 1 of 3	BOREHOLE BHR04
METHOD	CASING	DATE 20/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.00	0.45		N=0 (0, 0 - 0, 0, 0, 0)			(0.40)	Brown sandy SILT with organic odour [Topsoil]			
						0.40	Soft light brown thinly laminated silty CLAY with some sand lenses.			
				89		1				
						(2.10)				
				88		2				
						2.50	Grey slightly silty SAND with subangular to subrounded gravel.			
				87		3				
						(2.90)				
				86		4				
						5				
				85		5				
						5.40	Stiff brown sandy slightly silty CLAY with gravel.			
				84		6				
						(1.30)				
				83		7	Red brown SAND.			
						6.70				
				82		8				
						(2.60)				
				81		9				
						9.30	Firm to stiff red brown slightly silty sandy CLAY with subangular to subrounded gravel.			
						(0.70)				
				10.00			Continued next sheet			

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 391296.90 N - 382714.55	GROUND ELEVATION (mAOD) 90.193	HOLE DEPTH (m) 21.80	Sheet 2 of 3	BOREHOLE BHR04
METHOD	CASING	DATE 20/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
				79		11	Firm brown laminated slightly silty CLAY with			
				78	(3.70)	12				
				77		13				
				76	13.70	14	Red brown slightly silty SAND with subangular to subrounded gravel [Weathered Sandstone]			
				75	(2.80)	15				
				74		16				
				73	16.50	17	Sherwood SANDSTONE [Sherwood Sandstone]			
				72		18				
				71	(5.30)	19				

Continued next sheet


GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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




SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		BAE SYSTEMS	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 391296.90 N - 382714.55	GROUND ELEVATION (mAOD) 90.193	HOLE DEPTH (m) 21.80	Sheet 3 of 3	BOREHOLE BHR04
METHOD	CASING	DATE 20/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA			
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TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
				69		21	Sherwood SANDSTONE [Sherwood Sandstone] End of Borehole at 21.80 m			
				68		22				
				67		23				
				66		24				
				65		25				
				64		26				
				63		27				
				62		28				
				61		29				

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389168.62 N - 381814.12	GROUND ELEVATION (mAOD) 87.975	HOLE DEPTH (m) 23.00	Sheet 1 of 3	BOREHOLE BHR05
METHOD	CASING	DATE 24/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
0.00	0.00					(0.30)	Soft brown sandy SILT with organic odour [Topsoil].			
0.40	0.00	D		87		0.30	Soft brown mottled grey sandy CLAY with slight organic odour.			
1.10	0.00	D				1				
1.50	1.95	S	N=17 (1, 2 - 3, 5, 4, 5)			1.90				
1.50	0.00	D								
2.00	0.00	D		86		2	Red brown slightly silty SAND with occasional fine subrounded to subangular gravel of mixed lithology.			
2.50	2.95	S	N=21 (2, 3 - 5, 5, 6, 5)							
2.50	0.00	D								
3.00	0.00	D		85		3				
3.50	3.95	S	N=23 (2, 4 - 5, 5, 6, 7)			(3.70)				
3.50	0.00	D								
4.00	0.00	D		84		4				
4.50	4.95	S	N=24 (3, 6 - 5, 6, 6, 7)							
4.50	0.00	D								
5.00	0.00	D		83		5				
5.50	5.95	S	N=10 (1, 2 - 2, 3, 2, 3)			5.60				
5.50	0.00	D				(0.60)	Very soft red brown sandy SILT with occasional fine to medium subangular to subrounded gravel.			
6.20	0.00	D		82		6.20	Soft orange brown thinly lamiated sandy slightly silty CLAY with much fine angular to subrounded gravel.			
7.00	7.45	S	N=22 (2, 4 - 5, 5, 6, 6)			(1.40)				
7.00	0.00	D								
7.80	0.00	D		80		7.60	Soft red brown thinly laminated very sandy SILT.			
8.50	8.95	S	N=12 (2, 2 - 3, 2, 3, 4)			(1.30)				
8.50	0.00	D								
9.00	0.00	D		79		8.90	Red brown sandy SILT with occasional fine gravel of coal and quartz. Sand content variable with depth.			
10.00	10.45	S	N=19 (2, 3 - 4, 4, 5, 6)							
10.00	0.00	D								

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GROUNDWATER DEPTH (m) BEHAVIOUR		REMARKS Water added from 2.0m bgl to 18.0m bgl.	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
		Material logged in general accordance with BS EN ISO 14688	BAE Cable Percussion Log v1.4

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		BAE SYSTEMS	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389168.62 N - 381814.12	GROUND ELEVATION (mAOD) 87.975	HOLE DEPTH (m) 23.00	Sheet 2 of 3	BOREHOLE BHR05
METHOD	CASING	DATE 24/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
10.50	0.00	D				(2.60)	Red brown sandy SILT with occasional fine gravel of coal and quartz. Sand content variable with depth.			
11.50	11.95	S	N=41 (4, 6 - 9, 9, 11, 12)	11.50		11	Very soft to stiff brown sandy silty CLAY.			
11.50	0.00	D				77				
12.00	0.00	D				12				
13.00	13.45	S	N=28 (3, 5 - 6, 6, 7, 9)			(3.20)	Dark red brown medium to coarse SAND with some medium angular gravel of Sandstone [Weathered Sherwood Sandstone].			
13.00	0.00	D				75				
13.50	0.00	D				14				
14.50	14.95	S	N=34 (3, 5 - 6, 9, 9, 10)	14.70		15				
14.50	0.00	D				(2.80)	Red brown SANDSTONE [Sherwood Sandstone].			
15.10	0.00	D				73				
16.00	0.00	D				16				
17.00	0.00	D				17				
						18				
						19				
						(5.50)				


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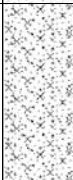

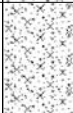

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Water added from 2.0m bgl to 18.0m bgl.	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		BAE SYSTEMS	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389168.62 N - 381814.12	GROUND ELEVATION (mAOD) 87.975	HOLE DEPTH (m) 23.00	Sheet 3 of 3	BOREHOLE BHR05
METHOD	CASING	DATE 24/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
							Red brown SANDSTONE [Sherwood Sandstone].			
				67		21				
				66		22				
				23.00		23	End of Borehole at 23.00 m			
				65						
				64		24				
				63		25				
				62		26				
				61		27				
				60		28				
				59		29				

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Water added from 2.0m bgl to 18.0m bgl.	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389907.74 N - 381699.12	GROUND ELEVATION (mAOD) 84.546	HOLE DEPTH (m) 30.00	Sheet 1 of 3	BOREHOLE BHR06
METHOD	CASING	DATE 23/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
1.00	0.00	D		84	(0.40)	1	MADE GROUND: Brown sandy silt with organic odour.			
					(0.30)		MADE GROUND: Brown sandy silt with angular to subangular gravel of concrete and brick.			
					(1.00)		Firm orange brown mottled grey sandy CLAY.			
2.00	0.00	D		83	1.70	2	Soft orange brown very sandy SILT.			
3.00	0.00	D		82	(1.00)	3	Medium to coarse slightly silty SAND with occasional fine subangular gravel of mixed lithology.			
4.00	0.00	D		81	(3.10)	4				
5.00	0.00	D		80		5				
6.00	0.00	D		79	5.80	6	Soft to firm brown silty CLAY with some fine gravel.			
7.00	0.00	D		78	(0.90)	7	Brown silty SAND with subrounded to rounded gravel of mixed lithology.			
8.00	0.00	D		77	(0.80)	8	Firm brown thinly laminated silty slightly sandy CLAY with occasional to some subrounded gravel of mixed lithology.			
9.00	0.00	D		76	7.50	9				
10.00	0.00	D			(3.50)					

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GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		BAE SYSTEMS	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389907.74 N - 381699.12	GROUND ELEVATION (mAOD) 84.546	HOLE DEPTH (m) 30.00	Sheet 2 of 3	BOREHOLE BHR06
METHOD	CASING	DATE 23/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
11.00	0.00	D		73		11	Firm brown thinly laminated silty slightly sandy CLAY with occasional to some subrounded gravel of mixed lithology.			
12.00	0.00	D		72	(2.00)	12	Firm thinly laminated brown CLAY.			
13.00	0.00	D		71		13	Red brown SAND.			
14.00	0.00	D		70	(1.40)	14				
14.50	0.00	D		70	(0.60)	14	Firm brown silty CLAY with some fine gravel.			
15.50	0.00	D		69		15	Brown sandy subangular to subrounded GRAVEL of mixed lithology.			
16.50	0.00	D		68	(1.80)	16				
17.00	0.00	D		67		17	Red brown fine to medium SAND with much subrounded to subangular gravel.			
18.00	0.00	D		66	(2.10)	18				
19.00	0.00	D		65		19	Firm grey brown clayey sandy SILT with subrounded to subangular gravel.			
20.00	0.00	D		65	(1.60)	19				


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


GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389907.74 N - 381699.12	GROUND ELEVATION (mAOD) 84.546	HOLE DEPTH (m) 30.00	Sheet 3 of 3	BOREHOLE BHR06
METHOD	CASING	DATE 23/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER	BACKFILL
				20.50			Firm grey brown clayey sandy SILT with subrounded to subangular gravel.			
21.00	0.00	D				21	Stiff brown sandy slightly silty CLAY with subrounded to subangular gravel and occasional cobbles.			
				63						
						(2.70)				
22.00	0.00	D				22				
				62						
23.00	0.00	D				23				
				61		23.20	Red brown SAND with subangular to subrounded gravel of sandstone [Weathered Sandstone]			
23.50	0.00	D								
						(1.30)				
				60		24				
24.50	0.00	D				24.50	Red brown SANDSTONE [Sherwood Sandstone].			
				59						
				58						
				57		(5.50)				
				56						
				55						
				30.00			End of Borehole at 30.00 m			




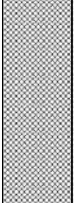



GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Material logged in general accordance with BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) DG - Disturbed sample (tub and jar) U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (using cone)
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389620.60 N - 382904.42	GROUND ELEVATION (mAOD) 92.125	HOLE DEPTH (m) 3.00	Sheet 1 of 1	TRIAL PIT TP01
PLANT	DIMENSIONS -	DATE 25/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.20		D		(0.10)	0.10		MADE GROUND: Bituminous surfacing.		
0.60		D		(0.20)	0.30		MADE GROUND: Light yellow brown sandy subrounded medium to coarse sandstone gravel with some brick fragments.		
				(0.70)			MADE GROUND: Dark grey clayey silt with ash fragments.		
1.10		HV	1 - 90kPa	91	1.00	1	Firm to stiff red brown mottled grey CLAY .		
1.10		HV	2 - 110kPa	(0.50)					
1.10		HV	3 - 90kPa						
1.10		D			1.50		Soft to firm red brown mottled grey sandy CLAY.		
1.60		D		(0.40)					
2.00		D		90	1.90	2	Stiff light brown CLAY.		
				(1.10)					
3.00		D		89	3.00	3	End of Trial Pit at 3.00 m		
				88		4			
				87		5			
				86		6			
				85		7			
				84		8			
				83		9			

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit sides remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389737.83 N - 382852.39	GROUND ELEVATION (mAOD) 91.717	HOLE DEPTH (m) 3.90	Sheet 1 of 1	TRIAL PIT TP02
PLANT	DIMENSIONS -	DATE 20/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.45		D		(0.05) 0.05			MADE GROUND: Bituminous surfacing.		
0.65		HV	1 - 96kPa	(0.25) 0.30			MADE GROUND Sandstone sub base.		
0.65		HV	2 - 120kPa	(0.20) 0.50			MADE GROUND: Black ashy sandy fine angular gravel with occasional bricks.		
0.65		HV	3 - 108kPa	91		1	MADE GROUND: Orange brown mottled grey slightly gravelly clay. Gravel is fine to coarse subrounded to subangular of brick.		
1.55		HV	1 - 70kPa	(1.80)					
1.55		HV	2 - 75kPa			2			
1.55		HV	3 - 84kPa	90					
1.55		D							
2.45		HV	1 - 60kPa	2.30			Firm orange brown CLAY with some veins of grey sandy clay.		
2.45		HV	2 - 50kPa						
2.45		HV	3 - 65kPa	(1.10)		3			
2.45		D		89					
3.50		D		3.40			Soft black brown loamy PEAT with rootlets.		
3.90		HV	1 - 30kPa	(0.30) 3.70			Soft grey slightly sandy SILT with occasional organic fragments.		
3.90		HV	2 - 24kPa	(0.20) 3.90		4	End of Trial Pit at 3.90 m		
3.90		HV	3 - 30kPa	88					
3.90		D							
				87		5			
				86		6			
				85		7			
				84		8			
				83		9			




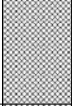


GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit sides remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389560.90 N - 382805.14	GROUND ELEVATION (mAOD) 90.803	HOLE DEPTH (m) 3.30	Sheet 1 of 1	TRIAL PIT TP03
PLANT	DIMENSIONS -	DATE 23/01/2012	LOGGED BY AH	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.20)	0.20		MADE GROUND: Concrete		
0.60		HV	1 - 80kPa	(0.20)	0.40		MADE GROUND: Dark brown sandy gravel with some cobbles. Gravel is subangular of mixed aggregate. Unidentified odour present.		
0.60		HV	2 - 110kPa						
0.60		D		(1.00)		1	Stiff light brown slightly sandy CLAY.		
0.60		B							
0.80		HV	3 - 100kPa						
1.00		D				1.40	Firm to stiff light brown sandy CLAY.		
2.00		D		89		2			
				(1.90)					
3.00		D		88		3			
						3.30	End of Trial Pit at 3.30 m		
				87		4			
				86		5			
				85		6			
				84		7			
				83		8			
				82		9			




GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit sides remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) ES - Disturbed sample (tub and jar) W - Water sample HV - In Situ Hand Vane Test M - In Situ Mexecon CBR Test P - In Situ CBR Plate Test PID - Photo Ionisation Detector
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389717.95 N - 382891.27	GROUND ELEVATION (mAOD) 91.649	HOLE DEPTH (m) 3.30	Sheet 1 of 1	TRIAL PIT TP04
PLANT	DIMENSIONS -	DATE 25/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA					
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER
0.20		D		(0.10)	0.10	0.20	MADE GROUND: Bituminous surfacing		
0.40		D		(0.20)	0.30	0.40	MADE GROUND: Yellow brown subangular to subrounded medium to coarse sand and gravel of sandstone.		
0.70		D		(0.20)	0.50	0.70	MADE GROUND: Black sandy subangular fine to medium gravel of ash and clinker.		
0.70		B					MADE GROUND: Reworked light brown sandy clay.		
				-91	(1.10)	1			
1.50		D				1.60	MADE GROUND: Dark brown original topsoil with plant material and glass.		
2.00		D		(0.60)		2	Soft to firm grey brown sandy CLAY.		
						2.20			
3.30		D				3.30	End of Trial Pit at 3.30 m		
				(1.10)					
				-89		3			
				-88		4			
				-87		5			
				-86		6			
				-85		7			
				-84		8			
				-83		9			




GROUNDWATER DEPTH (m) BEHAVIOUR		REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) ES - Disturbed sample (tub and jar) W - Water sample HV - In Situ Hand Vane Test M - In Situ Mexecon CBR Test P - In Situ CBR Plate Test PID - Photo Ionisation Detector
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389347.74 N - 382676.35	GROUND ELEVATION (mAOD) 90.915	HOLE DEPTH (m) 3.10	Sheet 1 of 1	TRIAL PIT TP05
PLANT	DIMENSIONS -	DATE 20/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER		
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION				
0.45		D		(0.10) 0.10 (0.25) 0.35			MADE GROUND: Reinforced concrete. Slight Vinyl Chloride odour present on painted surface.				
0.70		HV	1 - 108kPa	(0.35) 0.70			MADE GROUND Concrete sub base				
0.70		HV	2 - 64kPa				MADE GROUND: Black ashy sandy gravel with fragments of brick.				
0.70		HV	3 - 65kPa	90		1	Firm orange brown mottled grey CLAY with lenses of fine grey sand. Becomes stiff with depth. Soil too friable for hand vane at 1.5m bgl.				
1.50		D		(1.50)		2					
2.50		D		89		2.20	Stiff orange brown mottled grey CLAY with rare lenses of fine orange sand.				
3.10		HV	1 - 130kPa	(0.90) 88		3					
3.10		D				3.10	End of Trial Pit at 3.10 m				
				87		4					
				86		5					
				85		6					
				84		7					
				83		8					
				82		9					


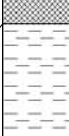

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit sides remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389500.30 N - 382726.07	GROUND ELEVATION (mAOD) 90.763	HOLE DEPTH (m) 2.80	Sheet 1 of 1	TRIAL PIT TP06
PLANT	DIMENSIONS -	DATE 23/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.20)	0.20		MADE GROUND: Concrete		
				(0.20)	0.40		MADE GROUND: Dark grey gravelly sand with some brick fragments.		
0.60		D					Firm to stiff light brown CLAY.		
0.80		HV	1 - 100kPa						
0.80		HV	2 - 85kPa						
0.80		HV	3 - 80kPa	-90	(1.00)	1			
1.10		D							
							Soft to stiff light brown silty CLAY with occasional sand lenses.		
2.00		D		-89	(1.40)	2			
2.80		D					End of Trial Pit at 2.80 m		
				-88		3			
				-87		4			
				-86		5			
				-85		6			
				-84		7			
				-83		8			
				-82		9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit sides remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389626.06 N - 382716.70	GROUND ELEVATION (mAOD) 90.819	HOLE DEPTH (m) 2.70	Sheet 1 of 1	TRIAL PIT TP07
PLANT	DIMENSIONS -	DATE 23/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.20)	0.20		MADE GROUND: Concrete.		
0.60		D		(0.20)	0.40		MADE GROUND: Black gravelly sand with reworked clay with ash and cobbles of bricks.		
1.00		D		(0.80)			Firm to stiff light brown CLAY.		
1.90		D		90	1.20		Stiff light brown CLAY with sand lenses.		
2.70		D		89 (1.50)					
							End of Trial Pit at 2.70 m		
				88		3			
				87		4			
				86		5			
				85		6			
				84		7			
				83		8			
				82		9			

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Stiffness of clay slowed down excavation. Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389717.61 N - 382710.42	GROUND ELEVATION (mAOD) 91.233	HOLE DEPTH (m) 3.70	Sheet 1 of 1	TRIAL PIT TP08
PLANT	DIMENSIONS -	DATE -	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl)	DEPTH (mbgl)	DESCRIPTION		
				90.05 (0.05)	0.05	0.05	MADE GROUND: Bitumen surfacing		
				89.65 (0.30)	0.30	0.35	MADE GROUND: Black sandy angular to subangular gravel of brick, concrete and limestone. Occasional cobbles of brick.		
				89.00 (1.25)	1.25	1.00	MADE GROUND: Brown mottled orange and grey sandy clay with organic silt lenses.		
				88.40 (1.60)	1.60	2.00	MADE GROUND: Black sandy silt with organic odour [former topsoil] with occasional fine to medium angular to subangular gravel of brick.		
				88.00 (2.50)	2.50	3.00	Firm blue grey sandy CLAY with angular to subrounded gravel of mixed lithology. Some to many leses (<500mm) of very silty fine to medium sand.		
				87.00 (3.70)	3.70	3.70	End of Trial Pit at 3.70 m		
				87.00		4.00			
				86.00		5.00			
				85.00		6.00			
				84.00		7.00			
				83.00		8.00			
				82.00		9.00			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389802.25 N - 382666.43	GROUND ELEVATION (mAOD) 90.089	HOLE DEPTH (m) 0.90	Sheet 1 of 1	TRIAL PIT TP09
PLANT	DIMENSIONS -	DATE -	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
				(0.70)			MADE GROUND: Black sandy silt with organic odour.		
				(0.20)	0.70		MADE GROUND: Grey mottled orange sandy clay [reworked].		
				89	0.90	1	End of Trial Pit at 0.90 m		
				88		2			
				87		3			
				86		4			
				85		5			
				84		6			
				83		7			
				82		8			
				81		9			


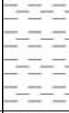



GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389322.79 N - 382720.41	GROUND ELEVATION (mAOD) 90.688	HOLE DEPTH (m) 3.00	Sheet 1 of 1	TRIAL PIT TP10
PLANT	DIMENSIONS -	DATE 25/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.10)	0.10		MADE GROUND: Bituminous surfacing.		
				(0.50)			MADE GROUND: Light brown sandy cobbly subangular medium to coarse gravel of sandstone, concrete and brick.		
0.65		D			0.60		Stiff light red brown CLAY.		
0.70		HV	1 - 120kPa						
0.70		HV	2 - 110kPa						
0.70		HV	3 - 90kPa	90	(0.75)	1			
1.00		HV	4 - 110kPa						
1.00		HV	5 - 100kPa		1.35				
1.00		HV	6 - 75kPa		(0.30)		Light brown clayey fine to medium SAND.		
1.00		D			1.65		Stiff light brown mottled grey CLAY. Soil is friable.		
1.40		D							
2.00		D		89		2			
				(1.35)					
3.00		D		88		3	End of Trial Pit at 3.00 m		
				87		4			
				86		5			
				85		6			
				84		7			
				83		8			
				82		9			

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389685.32 N - 382591.40	GROUND ELEVATION (mAOD) 91.127	HOLE DEPTH (m) 3.30	Sheet 1 of 1	TRIAL PIT TP11
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.40		D		(0.75)			MADE GROUND: Soft dark brown clayey cobbly organic silt. Cobbles are subangular and tabular of sandstone.		
0.90		HV	1 - 74kPa	0.75			Stiff orange mottled grey CLAY.		
0.90		HV	2 - 94kPa	90		1			
0.90		HV	3 - 90kPa	(0.75)					
0.90		D							
1.75		D		1.50	(0.30)		Soft black organic SILT.		
2.00		HV	1 - 10kPa	1.80			Soft dark grey SILT/CLAY		
2.00		HV	2 - 32kPa	89	(0.50)	2			
2.00		HV	3 - 15kPa						
2.00		D							
2.50		D		2.30			Orange medium SAND.		
				(1.00)					
				88		3			
				3.30			End of Trial Pit at 3.30 m		
				87		4			
				86		5			
				85		6			
				84		7			
				83		8			
				82		9			







GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389791.64 N - 382635.70	GROUND ELEVATION (mAOD) 90.728	HOLE DEPTH (m) 3.50	Sheet 1 of 1	TRIAL PIT TP12
PLANT	DIMENSIONS -	DATE 20/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA					
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER
				90.00	(0.20)	0.20	MADE GROUND: Concrete.		
				89.55	(0.45)		MADE GROUND: Subbase with some brick and sandstone boulders		
0.85		D		89.10	(0.65)		MADE GROUND: Reworked dark grey silt/clay worked with soft orange brown silt/clay.		
1.20				88.90	(0.40)	1	Soft orange sandy CLAY with pockets of fine grey sand.		
1.20		HV	1 - 50kPa		(0.45)				
1.20		HV	2 - 58kPa						
1.20		HV	3 - 44kPa						
1.20		D				1.50	Firm orange brown CLAY with veins of fine grey sand.		
1.70		HV	1 - 74kPa						
1.70		HV	2 - 90kPa						
1.70		HV	3 - 68kPa		(0.70)	2			
1.70		D		89.00					
						2.20	Firm orange brown mottled grey CLAY with occasional pockets of orange sand.		
2.60		D			(1.30)	3			
				88.00					
3.50		D				3.50	End of Trial Pit at 3.50 m		
				87.00		4			
				86.00		5			
				85.00		6			
				84.00		7			
				83.00		8			
				82.00		9			







GROUNDWATER DEPTH (m) BEHAVIOUR		REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
		BAE TP Log v1.3	

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389412.83 N - 382549.39	GROUND ELEVATION (mAOD) 90.648	HOLE DEPTH (m) 3.30	Sheet 1 of 1	TRIAL PIT TP13
PLANT	DIMENSIONS -	DATE 24/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.60		D		(0.10)	0.10		MADE GROUND: Bituminous surfacing		
				(0.35)		0.45	MADE GROUND: Concrete with reinforcement bar.		
				(0.45)			MADE GROUND: Black sandy sub angular fine to coarse gravel of ash with whole bricks and sandstone cobbles.		
1.00		HV	1 - 110kPa	90	0.90	1	Firm to stiff light brown sandy CLAY.		
1.00		HV	2 - 90kPa						
1.00		HV	3 - 100kPa	(0.60)					
1.00		D				1.50			
1.00		B							
1.70		D					Soft to firm light brown silty sandy CLAY with lenses of black/grey organic silt.		
						89			
				(1.50)					
						3.00			
3.30		D		88	3.00	3	Dark grey organic SILT.		
				(0.30)		3.30			
							End of Trial Pit at 3.30 m		
						87			
						86			
						85			
						84			
						83			
						82			





GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389509.40 N - 382530.33	GROUND ELEVATION (mAOD) 90.726	HOLE DEPTH (m) 3.40	Sheet 1 of 1	TRIAL PIT TP14
PLANT	DIMENSIONS -	DATE 20/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA					
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION	LEGEND	WATER
				(0.05)	0.05		MADE GROUND: Bituminous surfacing		
				(0.35)	0.40		MADE GROUND: Concrete with hydrocarbon staining		
				(0.30)	0.70		MADE GROUND: Gravel and cobbles with patches of hydrocarbon staining [subbase material]		
0.90		HV	1 - 98kPa	90	(0.75)	1	Firm to stiff orange brown mottled grey CLAY.		
0.90		HV	2 - 78kPa						
0.90		HV	3 - 130kPa						
0.90		B							
0.90		D							
1.60		D		1.45			Firm to stiff orange brown mottled grey CLAY with pockets of fine orange sand.		
				(0.65)		2			
				89	2.10		Stiff orange brown mottled grey CLAY		
2.40		D							
				(1.30)		3			
				88					
3.40		D		3.40			End of Trial Pit at 3.40 m		
						4			
						5			
						6			
						7			
						8			
						9			




GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389744.98 N - 382548.61	GROUND ELEVATION (mAOD) 90.238	HOLE DEPTH (m) 2.70	Sheet 1 of 1	TRIAL PIT TP15
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Black ashy sandy gravel		
0.40		D		(0.55)			MADE GROUND: Orange brown cobbly clay. Cobbles are large subangular to tabular of sandstone.		
0.90		D		89		1	Orange medium SAND		
2.10		D		88		2	Orange medium gravelly SAND. Gravel is medium subrounded of mixed lithology.		
				(0.90)					
				2.70			End of Trial Pit at 2.70 m		
				87		3			
				86		4			
				85		5			
				84		6			
				83		7			
				82		8			
				81		9			







GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389804.71 N - 382555.07	GROUND ELEVATION (mAOD) 89.702	HOLE DEPTH (m) 3.00	Sheet 1 of 1	TRIAL PIT TP16
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER	
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION			
0.10		D		(0.20)	0.20		Soft brown clayey TOPSOIL			
0.40		HV	1 - 90kPa				Firm to stiff orange brown CLAY/SILT			
0.40		HV	2 - 92kPa							
0.40		HV	3 - 92kPa	(0.90)						
0.40		D		89	1.10	1	Orange medium SAND.			
1.40		D								
				88 (1.90)		2				
2.40		D								
				87	3.00	3	End of Trial Pit at 3.00 m			
				86		4				
				85		5				
				84		6				
				83		7				
				82		8				
				81		9				



GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390016.62 N - 382545.35	GROUND ELEVATION (mAOD) 87.391	HOLE DEPTH (m) 3.00	Sheet 1 of 1	TRIAL PIT TP19
PLANT	DIMENSIONS -	DATE 25/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.60)			MADE GROUND: Dark grey topsoil with some glass.		
0.70		HV	1 - 50kPa	0.60			Soft light orange brown sandy CLAY.		
0.70		HV	2 - 50kPa	(0.60)					
0.70		HV	3 - 50kPa	86		1			
0.70		D					Light brown clayey fine to medium SAND.		
1.10		HV	4 - 30kPa	(0.10)	1.20				
1.10		HV	5 - 30kPa		1.30		Orange brown fine to medium SAND.		
1.10		HV	6 - 30kPa	(0.60)					
1.80		D					Very soft grey slightly sandy CLAY.		
2.00		D		85		1.90			
				(0.60)			Very soft light grey SILT.		
						2.50			
3.00		D		84		3.00	End of Trial Pit at 3.00 m		
				(0.50)					
				83		4			
				82		5			
				81		6			
				80		7			
				79		8			
				78		9			





GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Unstable collapse of sidewalls from 1.8m. Trial pit backfilled with arisings.	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389467.04 N - 382458.62	GROUND ELEVATION (mAOD) 88.908	HOLE DEPTH (m) 0.40	Sheet 1 of 1	TRIAL PIT TP20
PLANT	DIMENSIONS -	DATE 24/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.15		D		(0.10)	0.10		MADE GROUND: Bituminous surfacing		
0.40		D		(0.20)	0.30		MADE GROUND: Grey sandy subangular fine to coarse gravel of concrete.		
				(0.10)	0.40		Firm to stiff grey sandy SILT.		
							End of Trial Pit at 0.40 m		
				88		1			
				87		2			
				86		3			
				85		4			
				84		5			
				83		6			
				82		7			
				81		8			
				80		9			





GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Large water ingress at 0.4m Trial pit remained stable. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389572.16 N - 382460.83	GROUND ELEVATION (mAOD) 91.632	HOLE DEPTH (m) 2.70	Sheet 1 of 1	TRIAL PIT TP21
PLANT	DIMENSIONS -	DATE 26/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.05		D		(0.10)	0.10		MADE GROUND: Grass over grey clayey topsoil.		
				(0.80)			MADE GROUND: Orange brown mottled grey clay.		
0.60		HV	1 - 80kPa						
0.60		HV	2 - 70kPa						
0.60		HV	3 - 90kPa						
0.60		D		91	0.90	1	MADE GROUND: Soft to firm light brown mottled black clay with organic silt (reworked)		
1.00		HV	4 - 40kPa	(0.60)					
1.00		HV	5 - 40kPa						
1.00		HV	6 - 45kPa						
1.00		D			1.50		Very soft light grey silty CLAY		
1.80		D		90	(1.20)	2			
2.70		D				2.70	End of Trial Pit at 2.70 m		
				89		3			
				88		4			
				87		5			
				86		6			
				85		7			
				84		8			
				83		9			


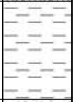



GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389870.51 N - 382460.55	GROUND ELEVATION (mAOD) 87.277	HOLE DEPTH (m) 3.85	Sheet 1 of 1	TRIAL PIT TP22
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.15		D		(0.30)		0.30	Soft dark brown clayey TOPSOIL.		
0.55		D		(0.50)		0.80	Soft dark brown silty sandy subsoil.		
1.10		D		86 (0.70)		1	Orange brown medium SAND.		
1.90		D		85 (1.10)		2	Fine orange silty SAND.		
3.00		D		84 (1.25)		3	Soft grey brown sandy SILT/CLAY.		
				83		4	End of Trial Pit at 3.85 m		
				82		5			
				81		6			
				80		7			
				79		8			
				78		9			





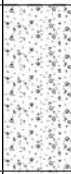
GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 391036.60 N - 382780.20	GROUND ELEVATION (mAOD) 88.903	HOLE DEPTH (m) 3.40	Sheet 1 of 1	TRIAL PIT TP24
PLANT	DIMENSIONS -	DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA					LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION			
0.10		D		(0.25)	0.25		Topsoil			
0.50		D		(0.65)			Firm grey with some orange mottling CLAY			
1.00		D		88 (0.75)	0.90	1	firm grey with some orange mottling CLAY with pockets of fine grey slightly clayey sand.			
1.75		D		1.65 (0.35)			Grey slightly clayey gravelly coarse SAND. Gravel is coarse rounded of mixed lithology			
2.20		D		87 (1.40)	2.00	2	Soft orange brown sandy SILT with lenses of silty coarse sand.			
3.40		D			3.40		End of Trial Pit at 3.40 m			
				86		3				
						4				
				85						
						5				
				84						
						6				
				83						
						7				
				82						
						8				
				81						
						9				
				80						

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 391119.37 N - 382711.00	GROUND ELEVATION (mAOD) 89.499	HOLE DEPTH (m) 3.50	Sheet 1 of 1	TRIAL PIT TP25
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10	0.10	D		(0.30)		0.30	Firm light brown sandy CLAY with occasional fine to coarse subangular to subrounded gravel and cobbles of mixed lithology.		
0.50		D		(0.30)		0.60	Firm to stiff light brown sandy CLAY with abundant pockets of orange brown sandy clay.		
0.90		D		88		1	Soft to stiff brown CLAY with abundant pockets of orange brown and grey clay. Becomes soft and sandy from 1.3m.		
2.00		D		87		2	Soft to firm grey CLAY with abundant pockets of orange brown clay.		
2.70		D		86		3	Medium reddish brown SAND with some fine to coarse subangular to subrounded gravel and cobbles of mixed lithology.		
						3.50	End of Trial Pit at 3.50 m		
				85		4			
				84		5			
				83		6			
				82		7			
				81		8			
				80		9			



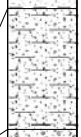

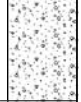
GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390814.92 N - 382663.43	GROUND ELEVATION (mAOD) 87.837	HOLE DEPTH (m) 2.30	Sheet 1 of 1	TRIAL PIT TP26
PLANT	DIMENSIONS -	DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	DEPTH (mbgl)	DESCRIPTION			
0.10		D		(0.30)	0.30	MADE GROUND: Reworked natural brown gravelly topsoil with wire.			
0.60		D				Coarse orange gravelly SAND. Gravel is very fine to coarse rounded to subrounded of mixed lithology.			
1.40		D		(2.00)					
2.30		D			2.30			End of Trial Pit at 2.30 m	


GROUNDWATER	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings.	KEY B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) ES - Disturbed sample (tub and jar) W - Water sample HV - In Situ Hand Vane Test M - In Situ Mexecon CBR Test P - In Situ CBR Plate Test PID - Photo Ionisation Detector
DEPTH (m) BEHAVIOUR		
Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688		BAE TP Log v1.3

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390940.73 N - 382626.02	GROUND ELEVATION (mAOD) 88.727	HOLE DEPTH (m) 3.20	Sheet 1 of 1	TRIAL PIT TP27
PLANT	DIMENSIONS -	DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Reddish brown sandy clay with occasional pockets of orange brown sand and fine to coarse subangular to subrounded gravel and cobbles of mixed lithology.		
0.40		D		(0.30)	0.50				
0.70		D		(0.60)			Medium light brown very clayey gravelly SAND with occasional pockets of yellow/brown sand. Gravel is fine to coarse subangular to subrounded of mixed lithology.		
0.90		B		88	1.10	1	Firm to stiff light brown / grey CLAY with abundant pockets of orange / brown sandy clay.		
1.30		D		(0.80)			Medium grey clayey SAND with abundant pockets of orange brown sand. Abundant fine to coarse subangular to subrounded gravel and cobbles of mixed lithology from 1.5m.		
2.10		D		87	1.90	2	Medium light brown / grey SAND with some fine to coarse subangular to subrounded gravel and cobbles of mixed lithology. Slight organic odour. Gravel and cobbles absent from 2.4m.		
3.20		D		86	3.20	3	End of Trial Pit at 3.20 m		
				85		4			
				84		5			
				83		6			
				82		7			
				81		8			
				80		9			




GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390707.05 N - 382626.55	GROUND ELEVATION (mAOD) 87.176	HOLE DEPTH (m) 1.00	Sheet 1 of 1	TRIAL PIT TP28
PLANT	DIMENSIONS -	DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.35		D		(0.15)	0.15		Brown TOPSOIL		
0.65		D		(0.85)			SOUTHERN EDGE OF TRIAL PIT: 0.15m to 0.3m medium orange sand; 0.3m to 0.9m black ashy sandy gravel of clinker and mixed lithology. ceramic duct at 0.9m to 1m. NORTHERN SIDE: medium orange brown SAND from 0.15m to 1m		
				86	1.00	1	----- End of Trial Pit at 1.00 m		
				85		2			
				84		3			
				83		4			
				82		5			
				81		6			
				80		7			
				79		8			
				78		9			




GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390698.25 N - 382636.58	GROUND ELEVATION (mAOD) 87.407	HOLE DEPTH (m) 2.00	Sheet 1 of 1	TRIAL PIT TP28A
PLANT	DIMENSIONS -	DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.15		D		(0.30)			Brown clayey TOPSOIL		
0.40		D		(0.50)		0.30	Orange medium SAND.		
1.00		D		(1.20)		0.80	Orange medium SAND.		
				86		1			
				85		2	End of Trial Pit at 2.00 m		
				84		3			
				83		4			
				82		5			
				81		6			
				80		7			
				79		8			
				78		9			







GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390613.18 N - 382505.34	GROUND ELEVATION (mAOD) 86.782	HOLE DEPTH (m) 2.80	Sheet 1 of 1	TRIAL PIT TP29
PLANT	DIMENSIONS -	DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.30)	0.30		MADE GROUND: Reddish brown sandy clay with rare fine to coarse subangular to subrounded gravel and cobbles of mixed lithology.		
0.50		D		(0.40)	0.70		Soft to firm reddish brown sandy CLAY with some pockets of stiff light brown sandy clay and some fine to coarse subangular to subrounded gravel and cobbles of mixed lithology.		
1.00		D		86	1		Medium light brown / red SAND with occasional fine to coarse subangular to subrounded gravel and cobbles of mixed lithology.		
2.00		D		(2.10)	2				
				85					
				84	2.80		End of Trial Pit at 2.80 m		
				83					
				82					
				81					
				80					
				79					
				78					

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390487.10 N - 382536.33	GROUND ELEVATION (mAOD) 86.351	HOLE DEPTH (m) 3.40	Sheet 1 of 1	TRIAL PIT TP30
PLANT	DIMENSIONS -	DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.20		D		(0.50)			Brown clayey TOPSOIL.		
0.75		D		0.50 (0.60)			Firm grey brown mottled orange CLAY.		
1.30		D		85 1.10 (0.70)		1	Soft orange brown mottled grey SILT/CLAY.		
2.10		D		84 1.80 (0.70)		2	Soft grey brown silty SAND.		
2.50		D		(0.05) 2.50 2.55			Black brown fibrous PEAT.		
3.30		D		83 (0.85) 3.40		3	Grey medium to coarse grained gravelly SAND. Gravel is fine to coarse subrounded to subangular of mixed lithology.		
							End of Trial Pit at 3.40 m		
				82		4			
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			





GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390351.31 N - 382385.66	GROUND ELEVATION (mAOD) 85.488	HOLE DEPTH (m) 3.10	Sheet 1 of 1	TRIAL PIT TP31
PLANT	DIMENSIONS -	DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Brown sandy clay with pockets of orange brown sandy clay and some fine to coarse subangular to subrounded gravel of mixed lithology including rare brick.		
0.30		D		(0.30)	0.50				
0.70		D					Firm to stiff mottled orange brown sandy CLAY.		
1.10		D		84 (1.00)		1	Firm grey sandy CLAY with abundant pockets of orange brown sandy clay. Increasing sand content from 1.0m.		
1.70		D				1.50	Medium orange brown SAND.		
				(0.70)		2	Medium grey gravelly slightly clayey SAND. Gravel is fine to coarse subangular to subrounded of mudstone.		
2.70		D		(0.70)		2.20			
3.10		D		82 (0.20)		2.90	Fine to coarse subrounded to rounded sandy GRAVEL with cobbles of mixed lithology.		
				(0.20)		3.10			
							End of Trial Pit at 3.10 m		
						81	4		
						80	5		
						79	6		
						78	7		
						77	8		
						76	9		





GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390221.51 N - 382417.12	GROUND ELEVATION (mAOD) 85.364	HOLE DEPTH (m) 2.80	Sheet 1 of 1	TRIAL PIT TP32
PLANT	DIMENSIONS -	DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.15		D		(0.30)		0.30	MADE GROUND: Brown clayey topsoil.		
0.45		D		(0.30)		0.60	MADE GROUND: Slightly red sandy angular cobbles of sandstone, brick and siltstone.		
1.00		D		84		1	Soft to firm grey brown mottled orange CLAY with pockets of grey fine clayey sand. Petrified wood at 0.8m. Becomes denser with depth at 1.6m.		
2.00		D		83		2			
2.60		D		(0.50)		2.30	Grey medium SAND.		
				82		2.80	End of Trial Pit at 2.80 m		
				81		4			
				80		5			
				79		6			
				78		7			
				77		8			
				76		9			








GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390141.01 N - 382297.75	GROUND ELEVATION (mAOD) 84.872	HOLE DEPTH (m) 2.80	Sheet 1 of 1	TRIAL PIT TP33
PLANT	DIMENSIONS -	DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.30)		0.30	MADE GROUND : Brown sandy clay with occasional fine to coarse subangular to subrounded gravel of mixed lithology		
0.30		D		(0.40)		0.70	Firm brown sandy CLAY with some lenses of orange brown clay and some fine to coarse subangular to subrounded gravel of mixed lithology. Pockets of grey clay from 0.5m. Becomes stiff and laminated from 0.6m.		
0.60		D		84 (0.60)		1.30	Firm grey sandy CLAY with abundant pockets of orange brown sandy clay and rare fine to coarse subangular to subrounded gravel and cobbles of mudstone.		
0.90		D							
1.60		D		83 (1.50)		2.80	Grey/brown medium SAND.		
				82		3	End of Trial Pit at 2.80 m		
				81		4			
				80		5			
				79		6			
				78		7			
				77		8			
				76		9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389966.07 N - 382316.87	GROUND ELEVATION (mAOD) 85.427	HOLE DEPTH (m) 3.00	Sheet 1 of 1	TRIAL PIT TP34
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Brown clayey topsoil.		
0.35		D		(0.35)	0.55		MADE GROUND: Orange brown slightly sandy gravelly clayey subsoil. Gravel is coarse subrounded of mixed lithology.		
0.65		D		(0.20)	0.75		MADE GROUND: Black slightly clayey gravelly sand with ash and occasional clinker. Gravel is fine to coarse subrounded to subangular.		
1.00		D		84 (0.45)	1.20	1	MADE GROUND: Black brown organic silt / clay with occasional fragments of brick.		
1.35		D		(0.65)	1.85		Soft greenish-grey with some orange mottling sandy CLAY with lenses of fine grey clayey silty sand.		
2.20		D		83 (0.90)	2.75	2	Pinkish grey medium SAND		
3.00		D		82 (0.25)	3.00	3	Soft brown SILT		
----- End of Trial Pit at 3.00 m									
				81		4			
				80		5			
				79		6			
				78		7			
				77		8			
				76		9			




GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389850.72 N - 382158.10	GROUND ELEVATION (mAOD) 85.361	HOLE DEPTH (m) 3.50	Sheet 1 of 1	TRIAL PIT TP35
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Dark brown sandy clay with some fine to coarse subangular to subrounded gravel and cobbles of mixed lithology including brick and clinker.		
0.40		D		(0.60)					
0.60		D					MADE GROUND: Light brown friable sandy clay with abundant pockets of orange brown and grey sandy clay. Some fine to coarse subangular to subrounded gravel and cobbles of mixed lithology including clay pipe		
1.00		D		84 (0.70)		1	Soft brown slightly sandy CLAY with some pockets of dark brown peat and grey clay.		
				1.50			Dark brown pseudofibrous clayey PEAT with some plant remains		
1.80		D		83 (0.80)		2			
				2.30			Soft grey/brown very sandy CLAY with abundant pockets of pale grey and orange brown sandy clay.		
2.60		D		82 (1.20)		3			
				3.50			End of Trial Pit at 3.50 m		
				81		4			
				80		5			
				79		6			
				78		7			
				77		8			
				76		9			



GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389511.88 N - 382366.10	GROUND ELEVATION (mAOD) 87.454	HOLE DEPTH (m) 1.60	Sheet 1 of 1	TRIAL PIT TP36
PLANT	DIMENSIONS -	DATE 24/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.40		D		(0.20)	0.20		MADE GROUND: Grey topsoil with concrete gravel.		
							Orange brown clayey fine to medium SAND.		
0.80		D		(0.70)			Light grey clayey fine SAND.		
				-86 (1.00)		0.90			
1.60		D				1.60	End of Trial Pit at 1.60 m		
				-85		2			
				-84		3			
				-83		4			
				-82		5			
				-81		6			
				-80		7			
				-79		8			
				-78		9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Heavy water ingress at 1.1m hole terminated, sandstone cobbles (suspected land drain). Trial pit remained stable. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389619.12 N - 382371.16	GROUND ELEVATION (mAOD) 89.089	HOLE DEPTH (m) 2.50	Sheet 1 of 1	TRIAL PIT TP37
PLANT	DIMENSIONS -	DATE 27/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Dark brown sandy topsoil with some ash.		
0.60		D					Light orange brown fine to medium SAND .		
1.30		D		(2.30)					
2.50		D				2.50	End of Trial Pit at 2.50 m		
				88		1			
				87		2			
				86		3			
				85		4			
				84		5			
				83		6			
				82		7			
				81		8			
				80		9			







GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Sides unstable and collapsing from surface. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389823.48 N - 382372.79	GROUND ELEVATION (mAOD) 86.062	HOLE DEPTH (m) 2.80	Sheet 1 of 1	TRIAL PIT TP38
PLANT	DIMENSIONS -	DATE 27/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.20		D		(0.50)			Soft grey clayey TOPSOIL (Saturated)		
0.60		D		0.50			Soft orange brown mottled grey CLAY		
0.80		D		(0.50)					
1.10		D		85	1.00	1	Soft black sandy SILT. Soft light brown sandy CLAY.		
1.60		D		(0.50) (0.80)	1.50				
1.85		D		(0.10)	1.80	2	Light brown fine silty SAND.		
				84	1.90		Soft light brown sandy CLAY with some.		
2.50		D		(0.90)					
				83	2.80		End of Trial Pit at 2.80 m		
				82		4			
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			




GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Water ingress at 2m, sides unstable and collapsing from 1m. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389468.80 N - 382285.25	GROUND ELEVATION (mAOD) 86.657	HOLE DEPTH (m) 3.00	Sheet 1 of 1	TRIAL PIT TP39
PLANT	DIMENSIONS -	DATE 24/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.50		D		(0.20)	0.20		MADE GROUND: Bituminous surfacing with much rebar		
				(0.50)			MADE GROUND: Black subangular gravel of ash / clinker and concrete		
0.80		HV	1 - 110kPa		0.70		Stiff light brown mottled grey CLAY.		
0.80		HV	2 - 120kPa	(0.30)					
0.80		HV	3 - 110kPa	86	1.00	1			
0.80		D					Soft to firm light brown CLAY.		
1.20		HV	4 - 40kPa	(0.50)			Dark grey/brown fibrous peat.		
1.20		HV	5 - 40kPa		1.50				
1.20		HV	6 - 45kPa						
1.90		D		85		2			
				(1.30)					
3.00		D		84	(0.20)	3	Soft light grey silty CLAY.		
							End of Trial Pit at 3.00 m		
				83		4			
				82		5			
				81		6			
				80		7			
				79		8			
				78		9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389569.91 N - 382285.17	GROUND ELEVATION (mAOD) 87.884	HOLE DEPTH (m) 2.70	Sheet 1 of 1	TRIAL PIT TP40
PLANT	DIMENSIONS -	DATE 27/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.20		D		(0.40)			MADE GROUND: Dark brown sandy gravelly topsoil.		
0.60		D		(0.50)			Firm to stiff light brown sandy CLAY.		
1.00		D		87		0.90	Firm light brown sandy CLAY.		
2.10		D		(1.80)					
				86		2			
2.70		D				2.70	End of Trial Pit at 2.70 m		
				85		3			
				84		4			
				83		5			
				82		6			
				81		7			
				80		8			
				79		9			

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389744.96 N - 382225.77	GROUND ELEVATION (mAOD) 86.325	HOLE DEPTH (m) 3.90	Sheet 1 of 1	TRIAL PIT TP41
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		Soft brown slightly sandy clayey TOPSOIL		
0.45		D		(0.75)			Orange fine slightly gravelly SAND		
1.10		D		85 (0.85)	0.95	1	Firm orange brown CLAY/SILT with pockets of fine orange brown sand.		
2.20		D		84 (1.00)	1.80	2	Soft to firm orange brown SILT		
3.20		D		83 (1.10)	2.80	3	Soft grey brown SILT		
				82	3.90	4	End of Trial Pit at 3.90 m		
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			







GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389565.28 N - 382155.45	GROUND ELEVATION (mAOD) 85.942	HOLE DEPTH (m) 2.80	Sheet 1 of 1	TRIAL PIT TP42
PLANT	DIMENSIONS -	DATE 18/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Black sandy fine to coarse subrounded to subangular gravel and cobbles of mixed lithology including brick, concrete and abundant clinker.		
0.40		D		(0.10)	0.30				
0.90		D		(0.10)	0.60		MADE GROUND: Grey gravelly cobbly sand. Gravel is fine to coarse subrounded to subangular mixed lithology including some concrete.		
				(0.30)	0.70				
1.20		HV	1 - 54kPa	85	1.00	1	MADE GROUND: Dark grey slightly sandy fine to coarse subrounded to subangular gravel and cobbles of blaes and clinker.		
1.20		HV	2 - 44kPa						
1.20		HV	3 - 40kPa	(0.80)					
1.20		D					MADE GROUND: Firm dark brown friable sandy clay.		
1.60		HV	1 - 90kPa		1.80				
1.60		HV	2 - 80kPa				MADE GROUND: Firm grey reworked sandy clay with some pockets of pale green sandy clay and light brown sand. Clay land drain encountered sat 0.9m.		
1.60		HV	3 - 82kPa	84	(0.60)	2			
2.10		HV	1 - 58kPa						
2.10		HV	2 - 48kPa				Firm grey CLAY with abundant pockets of orange brown clay and some fine to coarse subrounded to subangular gravel and cobbles of mudstone. Becoming stiff from 1.6m.		
2.10		HV	3 - 50kPa		2.40				
2.10		D			(0.40)		Firm brown CLAY with some pockets of pale grey and orange brown clay.		
2.70		D		83	2.80	3			
							Medium light brown SAND. Slight seepage at 2.7m causing collapse of sidewalls.		
				82		4			
							End of Trial Pit at 2.80 m		
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389673.90 N - 382056.67	GROUND ELEVATION (mAOD) 85.065	HOLE DEPTH (m) 3.30	Sheet 1 of 1	TRIAL PIT TP43
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Brown sandy clay with occasional fine to coarse subangular to subrounded gravel and cobbles of mixed lithology including rare clinker.		
0.50		D		(0.30)	0.30				
				(0.20)	0.60		MADE GROUND: Medium reddish brown sand.		
1.10		D		84	0.80	1	MADE GROUND: Firm brown slightly organic sandy clay. Land drain encountered at 0.4m.		
				(1.40)			MADE GROUND: Medium reddish brown sand.		
2.10		D		83		2	Firm grey CLAY with some pockets of orange brown clay. Abundant pockets of orange brown sand between 1.5m and 1.8m		
2.50		D			2.20		Medium grey/brown SAND with some subangular to subrounded gravel and cobbles of mixed lithology		
				(1.10)		3			
					3.30		End of Trial Pit at 3.30 m		
				81		4			
				80		5			
				79		6			
				78		7			
				77		8			
				76		9			





GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389468.82 N - 381979.76	GROUND ELEVATION (mAOD) 85.883	HOLE DEPTH (m) 3.60	Sheet 1 of 1	TRIAL PIT TP44
PLANT	DIMENSIONS -	DATE 18/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)		0.20	MADE GROUND: Brown sandy clay with some subangular to subrounded gravel and cobbles of mixed lithology including brick and clinker.		
0.40		D		(0.40)		0.60	MADE GROUND: Black sandy clay with abundant fine to coarse sub angular to sub rounded gravel and cobbles of clinker and some brick.		
0.80		D		(0.30)		0.90	MADE GROUND: Medium light brown slightly clayey sand with some sub angular to subrounded gravel and cobbles of clinker and some pockets of reddish brown sand.		
1.20		HV	1 - 18kPa	85		1	Soft to firm grey sandy CLAY with abundant pockets of light brown sand and reddish brown sandy clay and some subangular to subrounded gravel of mixed lithology. Lenses of medium light brown sand between 1.7 and 2.0m.		
1.20		HV	2 - 14kPa						
1.20		HV	3 - 28kPa						
1.20		D							
1.20		D							
1.20		B							
2.00		HV	1 - 80kPa	(2.00)		2			
2.00		HV	2 - 98kPa	84					
2.00		HV	3 - 70kPa						
2.00		D							
3.10		D		83		2.90	Medium grey brown clayey SAND.		
				(0.70)		3.60	End of Trial Pit at 3.60 m		
				82		4			
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			





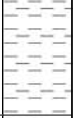

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389291.61 N - 382033.68	GROUND ELEVATION (mAOD) 86.032	HOLE DEPTH (m) 3.40	Sheet 1 of 1	TRIAL PIT TP45
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.20		D		(0.40)		0.40	Soft dark brown silty clay TOPSOIL.		
0.65		D					Firm orange mottled grey CLAY with pockets of fine grey sand.		
1.25		D		85 (1.60)		1			
2.10		D		84 (0.20)	2.00	2	Soft grey SILT.		
					2.20		Soft vey orange becoming orange brown SILT.		
3.40		D				3.40	End of Trial Pit at 3.40 m		
				83 (1.20)		3			
				82		4			
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389240.27 N - 381874.20	GROUND ELEVATION (mAOD) 86.151	HOLE DEPTH (m) 3.50	Sheet 1 of 1	TRIAL PIT TP46
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Dark brown sandy gravelly clay with some cobbles of mixed lithology including clinker. Gravel is fine to coarse sub angular to sub rounded mixed lithology.		
0.40		D		(0.50)			MADE GROUND: Light brown slightly friable reworked sandy clay with abundant pockets of grey and orange brown sandy clay and some subangular to subrounded gravel and cobbles of mixed lithology including rare brick.		
0.90		D		(0.30)			MADE GROUND: Grey clay with abundant pockets of orange brown sandy clay. Land drain encountered at 0.9m.		
1.50		D		(0.20)	1.20		MADE GROUND: Light brown medium sand.		
					84 (1.50)	2	Soft to firm brown very sandy CLAY with abundant pockets of orange brown and grey clayey sand.		
3.00		D		(0.80)		3	Soft to firm brown CLAY with occasional pockets of orange brown clay.		
						3.50	End of Trial Pit at 3.50 m		
						82	4		
						81	5		
						80	6		
						79	7		
						78	8		
						77	9		





GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390308.20 N - 382126.01	GROUND ELEVATION (mAOD) 84.411	HOLE DEPTH (m) 2.70	Sheet 1 of 1	TRIAL PIT TP47
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Brown reworked sandy clay with occasional pockets of orange brown sandy clay and some fine to coarse sub angular to sub rounded gravel of mixed lithology and charcoal cobbles.		
0.40		HV	1 - 72kPa						
0.40		HV	2 - 66kPa						
0.40		HV	3 - 70kPa	(0.80)			Firm grey CLAY with abundant pockets of orange brown sandy clay. Pockets of light brown sand from 0.7m		
0.40		D							
1.20		D		83 (0.50)		1.00	1 Light brown medium SAND with some lenses of orange brown sand and occasional plant remains		
						1.50			
1.80		D					Grey medium to coarse SAND with some medium light brown sand.		
				82 (1.00)		2			
2.70		D		(0.20)		2.50	Brown gravelly cobbly SAND. Gravel is fine to coarse subangular to subrounded of mixed lithology. Cobbles are of mixed lithology.		
						2.70	End of Trial Pit at 2.70 m		
				81		3			
				80		4			
				79		5			
				78		6			
				77		7			
				76		8			
				75		9			





GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390173.02 N - 382036.36	GROUND ELEVATION (mAOD) 83.703	HOLE DEPTH (m) 2.80	Sheet 1 of 1	TRIAL PIT TP48
PLANT	DIMENSIONS -	DATE 23/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Dark brown sandy clayey topsoil [reworked].		
0.50		D		(0.50)			Soft light brown very sandy CLAY.		
0.90		D		83 (0.80)		1	Light brown gravelly fine to medium SAND. Gravel is fine subangular of quartz.		
1.80		D		82 (1.30)		2	Light brown clayey fine SAND. Running sand ingress at 1.5m		
2.80		D		81		3	End of Trial Pit at 2.80 m		
				80		4			
				79		5			
				78		6			
				77		7			
				76		8			
				75		9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Sides unstable collapse of sidewalls - pit completed at 2.8m. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389977.41 N - 381844.28	GROUND ELEVATION (mAOD) 84.427	HOLE DEPTH (m) 2.70	Sheet 1 of 1	TRIAL PIT TP49
PLANT	DIMENSIONS -	DATE 18/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl) (m)	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Dark brown sandy gravelly clay with some cobbles of mixed lithology including concrete and clinker. Gravel is subangular to subrounded of mixed lithology including concrete and clinker.		
				(0.20)	0.40				
0.70		D		(1.00)			MADE GROUND: Brown clay with abundant pockets of orange brown sandy clay [reworked].		
1.00		HV	1 - 50kPa	83		1	Soft to firm light brown / grey CLAY with abundant pockets of orange brown and dark brown sandy clay and rare subangular to subrounded gravel and cobbles of mixed lithology. Abundant pockets of orange brown and grey sand from 0.8m.		
1.00		HV	2 - 42kPa						
1.00		HV	3 - 68kPa						
1.80		D		1.40					
1.80		HV	1 - 46kPa	(1.00)		2	Firm brown CLAY with abundant pockets of orange brown and rare pockets of grey sandy clay and some fine to coarse subangular to subrounded gravel and cobbles of mudstone. Becoming stiff from 2.2m.		
1.80		HV	2 - 50kPa	82					
1.80		HV	3 - 44kPa						
1.80		D							
2.60		D		2.40			Firm to stiff CLAY with abundant lenses of medium light brown sand.		
				(0.30)					
				2.70			End of Trial Pit at 2.70 m		
				81		3			
				80		4			
				79		5			
				78		6			
				77		7			
				76		8			
				75		9			





GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390088.50 N - 381864.10	GROUND ELEVATION (mAOD) 83.294	HOLE DEPTH (m) 2.70	Sheet 1 of 1	TRIAL PIT TP50
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER	
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION			
0.10		D		(0.20)		0.20	MADE GROUND: Light brown sandy clay with abundant pockets of orange brown sandy clay [reworked].			
0.50		HV	1 - 58kPa	(0.50)			Firm brown sandy CLAY with abundant pockets of orange brown and grey very sandy clay.			
0.50		HV	2 - 60kPa							
0.50		HV	3 - 54kPa			0.70				
0.50		D					Firm grey sandy CLAY with some pockets of orange brown sandy clay and rare fine to coarse rounded to subrounded gravel and cobbles of plant remains. Abundant pockets of medium light brown sand from 1.5m.			
1.00		HV	1 - 52kPa	82		1				
1.00		HV	2 - 58kPa							
1.00		HV	3 - 54kPa	(1.20)						
		D					Light brown / grey medium SAND.			
2.10		D		81		2				
				(0.50)			Grey sandy fine to coarse sub angular to sub rounded GRAVEL and COBBLES of mixed lithology.			
2.70		D		(0.30)		2.40				
						2.70	End of Trial Pit at 2.70 m			
				80		3				
				79		4				
				78		5				
				77		6				
				76		7				
				75		8				
				74		9				




GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390393.04 N - 381868.71	GROUND ELEVATION (mAOD) 84.137	HOLE DEPTH (m) 2.30	Sheet 1 of 1	TRIAL PIT TP51
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.30)		0.30	MADE GROUND: Reworked brown sandy clay with rare fine to coarse subangular to subrounded gravel and cobbles of mixed lithology.		
0.50		D		(0.50)		0.80	MADE GROUND: Medium light brown reworked clayey sand with abundant pockets of orange brown and grey sand. Clay land drain encountered at 0.5m.		
1.00		HV	1 - 108kPa	83 (0.40)		1	Firm to stiff brown CLAY with abundant pockets of orange brown and grey sandy clay and some fine to coarse subangular to subrounded gravel and cobbles of mixed lithology.		
1.00		HV	2 - 62kPa			1.20			
1.00		HV	3 - 76kPa						
1.00		D					Medium light brown SAND with lenses of soft grey clay and some fine to coarse subangular to subrounded gravel and cobbles of mixed lithology. Grey clay lenses absent from 1.8m.		
1.50		D		(1.10)		2			
2.30		D				2.30	End of Trial Pit at 2.30 m		
				81		3			
				80		4			
				79		5			
				78		6			
				77		7			
				76		8			
				75		9			




GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389839.02 N - 381777.06	GROUND ELEVATION (mAOD) 88.110	HOLE DEPTH (m) 3.50	Sheet 1 of 1	TRIAL PIT TP52
PLANT	DIMENSIONS -	DATE 18/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.30)		0.30	MADE GROUND: Dark brown sandy clay with rare fine to coarse subangular to subrounded gravel and cobbles of mixed lithology including clinker and blaes.		
0.50		HV	1 - 56kPa						
0.50		HV	2 - 62kPa						
0.50		HV	3 - 64kPa						
0.50		D		(1.00)			Firm light grey CLAY with abundant pockets of orange brown sandy clay and some fine to coarse gravel and cobbles of mixed lithology.		
1.00		HV	1 - 70kPa	87		1			
1.00		HV	2 - 60kPa						
1.00		HV	3 - 58kPa			1.30			
1.00		D							
1.40		HV	1 - 56kPa				Firm to stiff reddish brown CLAY with some pockets of orange brown and grey clay. Becoming sandy with some fine to coarse sub angular to sub rounded gravel and cobbles of mudstone from 2.1m.		
1.40		HV	2 - 40kPa						
1.40		HV	3 - 82kPa						
1.40		D		86		2			
				(2.20)					
2.90		D		85		3			
						3.50	End of Trial Pit at 3.50 m		
				84		4			
				83		5			
				82		6			
				81		7			
				80		8			
				79		9			





GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390039.32 N - 381777.22	GROUND ELEVATION (mAOD) 82.824	HOLE DEPTH (m) 3.00	Sheet 1 of 1	TRIAL PIT TP54
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER	
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION			
0.10		D		(0.30)		0.30	MADE GROUND: Brown sandy clay with occasional pockets of orange brown sandy clay, grey sand and subangular to subrounded gravel and cobbles of mixed lithology.			
0.50		HV	1 - 58kPa				Firm grey CLAY with abundant pockets of orange brown sandy clay and occasional plant remains. Becomes sandy from 1.0m. Lenses of medium grey sand from 1.4m.			
0.50		HV	2 - 68kPa							
0.50		HV	3 - 60kPa							
0.50		D								
1.00		HV	1 - 32kPa	82	(1.60)	1				
1.00		HV	2 - 52kPa							
1.00		HV	3 - 44kPa							
1.00		D								
2.10		D		81	(1.10)	1.90	2	Grey gravelly SAND with some plant remains.		
				80		3.00	3	End of Trial Pit at 3.00 m		
				79			4			
				78			5			
				77			6			
				76			7			
				75			8			
				74			9			


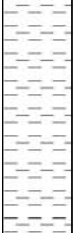

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389788.01 N - 381690.99	GROUND ELEVATION (mAOD) 85.440	HOLE DEPTH (m) 3.30	Sheet 1 of 1	TRIAL PIT TP56
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D					MADE GROUND: Dark brown sandy clay with some fine to coarse subangular to subrounded gravel and cobbles of mixed lithology including rare clinker.		
0.40		D		(0.60)		0.60			
0.80		HV	1 - 80kPa				Firm to stiff orange brown CLAY with abundant pockets of pale grey clay and rare subangular to subrounded gravel and cobbles of mixed lithology.		
0.80		HV	2 - 64kPa	84	(0.60)	1			
0.80		HV	3 - 66kPa						
0.80		D				1.20	Firm grey sandy SILT with abundant pockets of orange brown sand.		
0.80		B							
0.80		D							
1.30		D		(1.10)		2			
				83					
						2.30	Soft brown sandy CLAY with some subangular to subrounded gravel and cobbles of mudstone. Lenses of medium brown sand from 3.1m.		
2.50		HV	1 - 20kPa						
2.50		HV	2 - 32kPa						
2.50		HV	3 - 18kPa	(1.00)		3			
2.50		D		82					
3.30		D				3.30	End of Trial Pit at 3.30 m		
				81		4			
				80		5			
				79		6			
				78		7			
				77		8			
				76		9			








GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 390004.83 N - 381693.05	GROUND ELEVATION (mAOD) 82.801	HOLE DEPTH (m) 2.90	Sheet 1 of 1	TRIAL PIT TP57
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.30)	0.30		Firm brown sandy CLAY with some pockets of orange brown sandy clay and rare fine to coarse sub angular to sub rounded gravel and cobbles of mixed lithology.		
0.60		HV	1 - 58kPa				Firm grey CLAY with abundant pockets of orange brown sandy clay. Orange brown pockets absent from 1.2m, some plant remains from 1.2m. Lenses of medium light brown sand from 1.8m.		
0.60		HV	2 - 46kPa						
0.60		HV	3 - 52kPa						
0.60		D		82	1				
1.00		HV	1 - 36kPa	(1.80)					
1.00		HV	2 - 38kPa						
1.00		HV	3 - 30kPa						
1.00		D							
1.90		D		81	2.10	2	Light brown / grey SAND with occasional plant remains.		
2.50		D		(0.80)					
				80	2.90	3	End of Trial Pit at 2.90 m		
				79		4			
				78		5			
				77		6			
				76		7			
				75		8			
				74		9			








GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389736.16 N - 381598.47	GROUND ELEVATION (mAOD) 86.196	HOLE DEPTH (m) 3.90	Sheet 1 of 1	TRIAL PIT TP58
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.60		D		(0.15)	0.15		MADE GROUND: Bitumious surfacing and concrete		
				(0.15)	0.30		MADE GROUND: Concrete subbase		
				(0.15)	0.45		MADE GROUND: Concrete subbase		
				(0.40)			Firm orange brown SILT/CLAY. Soil too friable for reliable hand vane.		
1.00		D		85		1	Orange medium SAND		
				(1.15)					
2.20		HV	1 - 80kPa	84	2.00	2	Firm orange SILT / CLAY		
2.20		HV	2 - 55kPa						
2.20		HV	3 - 48kPa	(1.00)					
2.20		D							
				83	3.00	3	Soft orange SILT		
3.40		D		(0.90)					
				82	3.90	4	End of Trial Pit at 3.90 m		
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			


GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389835.61 N - 381611.87	GROUND ELEVATION (mAOD) 84.347	HOLE DEPTH (m) 2.70	Sheet 1 of 1	TRIAL PIT TP59
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.40)			MADE GROUND: Dark brown very sandy gravelly clay with some cobbles of mixed lithology including brick, clinker and concrete. Gravel is subangular to subrounded of mixed lithology including brick, clinker and concrete. Metal pipe section.		
0.30		D			0.40				
0.60		HV	1 - 64kPa				MADE GROUND: Light brown reworked clay with abundant pockets of pale grey and orange brown clay. Abundant whole bricks between 0.6 and 1.0m at southwestern end of trial pit.		
0.60		HV	2 - 62kPa	(0.70)					
0.60		HV	3 - 58kPa						
0.60		D		83		1.10	MADE GROUND: Light brown reworked clay with abundant pockets of pale grey and orange brown clay. Abundant whole bricks between 0.6 and 1.0m at southwestern end of trial pit.		
1.00		HV	1 - 44kPa						
1.00		HV	2 - 34kPa	(0.30)		1.40	Firm grey sandy SILT. Clay land drain encountered at 1.3m.		
1.00		HV	3 - 38kPa						
1.30		HV	1 - 62kPa				Medium brown clayey SAND.		
1.30		HV	2 - 48kPa	(0.60)					
1.30		HV	3 - 50kPa						
1.30		D					Medium brown SAND. Lenses of stiff brown clay from 2.2m.		
1.80		D		82		2.00			
2.30		D		(0.50)			Firm to stiff fractured reddish brown CLAY with some fine to coarse subangular to subrounded gravel and cobbles of mudstone.		
2.70		D				2.50			
				(0.20)		2.70	End of Trial Pit at 2.70 m		
				81		3			
				80		4			
				79		5			
				78		6			
				77		7			
				76		8			
				75		9			







GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389933.74 N - 381607.29	GROUND ELEVATION (mAOD) 83.778	HOLE DEPTH (m) 1.00	Sheet 1 of 1	TRIAL PIT TP60
PLANT	DIMENSIONS -	DATE 26/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.15)	0.15		MADE GROUND: Concrete		
0.60		D		(0.35)	0.50		MADE GROUND: Light brown sandy subrounded to subangular medium to coarse sandstone gravel.		
				(0.30)	0.80		MADE GROUND: Grey sandy cobbly subangular medium to coarse gravel.		
1.00		D		(0.20)	1.00	1	MADE GROUND: Dark grey sandy silt with an organic odour.		
End of Trial Pit at 1.00 m									
				83					
				82		2			
				81		3			
				80		4			
				79		5			
				78		6			
				77		7			
				76		8			
				75		9			








GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS HC odour from 0.5m. Water ingress at 0.5m making it impossible to see base, pit terminated at 1m. Trial pit remained stable. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389699.27 N - 381517.53	GROUND ELEVATION (mAOD) 85.435	HOLE DEPTH (m) 3.60	Sheet 1 of 1	TRIAL PIT TP61
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	DEPTH (mbgl)	DESCRIPTION			
				(0.15)	0.15	MADE GROUND: Bituminous surfacing			
				(0.15)	0.30	MADE GROUND: Concrete			
				(0.15)	0.45	MADE GROUND: Concrete subbase			
0.80		B				Orange medium SAND.			
0.80		D		84	1				
				(1.35)					
1.90		D			1.80	Soft to firm orange brown sandy SILT with pockets of medium slightly silty sand.			
				83	2				
				(0.90)					
3.30		D			2.70	Orange medium SAND			
				82	3				
				(0.90)					
					3.60	End of Trial Pit at 3.60 m			
				81	4				
				80	5				
				79	6				
				78	7				
				77	8				
				76	9				






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389786.55 N - 381543.91	GROUND ELEVATION (mAOD) 83.309	HOLE DEPTH (m) 3.70	Sheet 1 of 1	TRIAL PIT TP62
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
				(0.15)	0.15		MADE GROUND: Bitumen surfacing		
				(0.15)	0.30		MADE GROUND: Concrete		
				(0.15)	0.45		MADE GROUND: Concrete subbase		
0.60		HV	1 - 90kPa	(0.55)			Firm orange brown mottled grey SILT / CLAY.		
0.60		HV	2 - 110kPa						
0.60		HV	3 - 90kPa						
0.60		D		82	1.00	1	Soft orange brown mottled grey fine sandy SILT		
1.20		D							
				(1.20)					
				81	2.20	2	Soft orange brown SILT/CLAY. Becomes firmer with depth.		
2.40		HV	1 - 35kPa						
2.40		HV	2 - 54kPa						
2.40		HV	3 - 55kPa						
2.40		D		80	(1.50)	3			
3.70		HV	1 - 70kPa						
3.70		HV	2 - 50kPa						
3.70		HV	3 - 70kPa						
3.70		D		79	3.70	4	End of Trial Pit at 3.70 m		
				78		5			
				77		6			
				76		7			
				75		8			
				74		9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389887.84 N - 381534.84	GROUND ELEVATION (mAOD) 82.810	HOLE DEPTH (m) 2.70	Sheet 1 of 1	TRIAL PIT TP63
PLANT	DIMENSIONS -	DATE 26/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.10) 0.10			MADE GROUND: Bituminous surfacing.		
				(0.30) 0.40			MADE GROUND: Black sandy subangular medium to coarse gravel of bitumin, brick fragments and large cobbles.		
0.60		HV	1 - 105kPa	(0.50)			Firm to stiff light brown silty CLAY.		
0.60		HV	3 - 90kPa						
0.60		D		82		0.90	1	Soft light brown clayey SILT. Lenses of running sand.	
0.80		D							
1.10		HV	4 - 40kPa	(0.90)					
1.10		HV	5 - 35kPa						
1.10		HV	6 - 35kPa						
1.10		D							
2.00		D		81		1.80	2	Stiff light brown gravelly CLAY. Gravel is fine to medium subrounded to subangular of quartz. Running sand encountered at base of trial pit.	
				(0.90)					
2.70		D				2.70		End of Trial Pit at 2.70 m	
				80			3		
				79			4		
				78			5		
				77			6		
				76			7		
				75			8		
				74			9		







GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389640.01 N - 381431.95	GROUND ELEVATION (mAOD) 84.437	HOLE DEPTH (m) 3.70	Sheet 1 of 1	TRIAL PIT TP64
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
				(0.15)	0.15		MADE GROUND: Bituminous surfacing		
				(0.15)	0.30		MADE GROUND: Concrete		
				(0.15)	0.45		MADE GROUND: Concrete subbase.		
0.80		D		(0.65)			Firm orange sandy SILT. Silt is friable.		
				83		1.10	Orange medium SAND		
1.30		D							
				82		2			
				(2.60)					
3.00		D		81		3			
						3.70	End of Trial Pit at 3.70 m		
				80		4			
				79		5			
				78		6			
				77		7			
				76		8			
				75		9			


GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389750.96 N - 381447.31	GROUND ELEVATION (mAOD) 82.414	HOLE DEPTH (m) 3.00	Sheet 1 of 1	TRIAL PIT TP65
PLANT	DIMENSIONS -	DATE 26/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.10) 0.10			MADE GROUND: Bituminous surfacing		
				(0.30) 0.40			MADE GROUND: Grey gravelly clay with large concrete boulders and brick fragments		
0.60		D		(0.60)			Firm to stiff orange brown mottled grey sandy CLAY.		
0.70		HV	1 - 60kPa						
0.70		HV	2 - 75kPa						
0.70		HV	3 - 90kPa						
1.10		HV	3 - 30kPa	81	1.00	1	Soft light brown sandy CLAY.		
1.10		HV	4 - 40kPa						
1.10		HV	5 - 30kPa						
1.10		D		(0.80)					
				1.80					
2.20		D		80		2	Light brown clayey fine to medium SAND		
				(0.90)					
				2.70					
3.00		D		(0.30) 79	3.00	3	Firm to stiff light brown sandy gravelly CLAY. Gravel is subrounded fine to medium of quartz.		
							End of Trial Pit at 3.00 m		
				78		4			
				77		5			
				76		6			
				75		7			
				74		8			
				73		9			




GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Sidewalls unstable and collapsing from 1.8m. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389824.23 N - 381435.16	GROUND ELEVATION (mAOD) 82.362	HOLE DEPTH (m) 0.15	Sheet 1 of 1	TRIAL PIT TP66
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
				(0.15)	0.15		MADE GROUND: Reinforced concrete.		
							End of Trial Pit at 0.15 m		
				81		1			
				80		2			
				79		3			
				78		4			
				77		5			
				76		6			
				75		7			
				74		8			
				73		9			









GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389935.70 N - 381437.53	GROUND ELEVATION (mAOD) 82.528	HOLE DEPTH (m) 1.10	Sheet 1 of 1	TRIAL PIT TP67
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl)	DEPTH (mbgl)	DESCRIPTION		
				(0.15)	0.15		MADE GROUND: Concrete		
0.55		D		(0.30)	0.45		MADE GROUND Concrete subbase with brick		
0.95		D		(0.65)			MADE GROUND: Grey black sandy silt/clay with some ash; hydrocarbon odour. concrete plinth at 1m, covering part of water pipe.		
				82		1.10	End of Trial Pit at 1.10 m		
				81		2			
				80		3			
				79		4			
				78		5			
				77		6			
				76		7			
				75		8			
				74		9			

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389710.95 N - 381366.47	GROUND ELEVATION (mAOD) 82.427	HOLE DEPTH (m) 3.90	Sheet 1 of 1	TRIAL PIT TP69
PLANT	DIMENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
0.35		D		(0.05) 0.05 (0.10) 0.15 (0.05) 0.20 (0.45)			MADE GROUND Bitumen surfacing		
							MADE GROUND: Concrete		
							MADE GROUND: Concrete subbase		
				0.65			Orange medium SAND.		
0.95		B		81 (0.65)		1	Soft grey brown mottled grey sandy SILT. dark grey at surface of strata.		
0.95		D					Soft orange brown with some grey mottling SILT		
1.50		D		1.30					
				(0.80)					
				80		2	Firm orange brown mottled grey slightly laminated SILT/CLAY . visible plant remains at top of strata.		
2.30		HV	1 - 80kPa						
2.30		HV	2 - 76kPa						
2.30		HV	3 - 82kPa						
2.30		B		(0.80)					
2.30		D							
3.00		D		79		3	Orange brown very silty fine SAND.		
				(1.00)					
3.90		D		78		4	End of Trial Pit at 3.90 m		
				77		5			
				76		6			
				75		7			
				74		8			
				73		9			







GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389890.43 N - 381352.75	GROUND ELEVATION (mAOD) 82.196	HOLE DEPTH (m) 3.30	Sheet 1 of 1	TRIAL PIT TP71
PLANT	DIMENSIONS -	DATE 25/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl)	DEPTH (mbgl)	DESCRIPTION		
				(0.20)	0.20		MADE GROUND: Bituminous surfacing		
				(0.70)			MADE GROUND: Yellow sandy cobbly angular medium to coarse stone.		
0.90		D		81 (0.10)	0.90 1.00	1	MADE GROUND: Dark grey organic SILT		
							Light brown fine to medium SAND		
1.70		D		(1.20)		2			
							Soft light brown sandy SILT.	XXXXXX	
2.50		D		(0.40)	2.60		Dark brown medium gravelly SAND.	XXXXXX	
				79 (0.70)		3			
3.30		D			3.30		End of Trial Pit at 3.30 m		
				78		4			
				77		5			
				76		6			
				75		7			
				74		8			
				73		9			



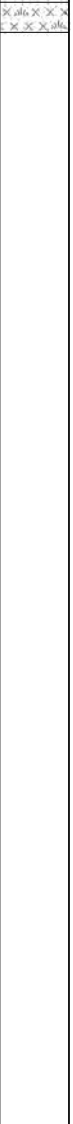
GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389701.46 N - 381314.94	GROUND ELEVATION (mAOD) 82.262	HOLE DEPTH (m) 3.00	Sheet 1 of 1	TRIAL PIT TP72
PLANT	DIMENSIONS -	DATE 27/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
					(0.08)	0.08	MADE GROUND: Bituminous surfacing		
0.50		D			(0.82)		MADE GROUND: Dark grey sandy subangular gravel with whole bricks		
1.00		D		81	(0.40)	0.90	1 MADE GROUND: Light brown clayey silt with brick fragments.		
1.40		D				1.30	Soft light brown clayey SILT.		
2.30		D			(1.00)	2.30	2 Very soft light grey sandy clayey organic SILT		
3.00		D		79	(0.10)	2.90 3.00	3 Light brown silty fine SAND with organic material.		
							End of Trial Pit at 3.00 m		
						78	4		
						77	5		
						76	6		
						75	7		
						74	8		
						73	9		









GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389887.54 N - 381283.47	GROUND ELEVATION (mAOD) 82.244	HOLE DEPTH (m) 2.90	Sheet 1 of 1	TRIAL PIT TP73
PLANT	DIMENSIONS -	DATE 26/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.10)	0.10		MADE GROUND: Bituminous surfacing		
				(0.40)			MADE GROUND: Dark grey sandy clay with whole bricks.		
0.60		D		(0.30)	0.50		MADE GROUND: Light brown sandy clay with ash.		
1.00		D		81 (0.60)	0.80	1	MADE GROUND: Light brown reworked silty clay.		
1.70		D			1.40		Very soft light brown sandy CLAY.		
				80 (1.30)		2			
2.90		D		(0.20)	2.70		Very soft light grey sandy organic SILT.		
				79	2.90	3	End of Trial Pit at 2.90 m		
				78		4			
				77		5			
				76		6			
				75		7			
				74		8			
				73		9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389476.97 N - 381813.90	GROUND ELEVATION (mAOD) 85.243	HOLE DEPTH (m) 2.50	Sheet 1 of 1	TRIAL PIT TP74
PLANT	DIMENSIONS -	DATE 18/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	(0.10) 0.20		MADE GROUND: Black fine to coarse sub angular to sub rounded sandy clayey gravel and cobbles of mixed lithology including abundant clinker.		
0.50		D		(0.40)	(0.20) 0.30		MADE GROUND: Dark brown slightly ashy reworked clay with abundant pockets of light brown sand and some fine to coarse sub angular to sub rounded gravel and cobbles of clinker.		
1.20		D		(0.20) 0.70	(0.40) 0.90	1	MADE GROUND: Dark brown clayey pseudofibrous peat with plant remains and pockets of grey clayey sand [reworked].		
1.80		D		(0.40) 1.30	(0.20) 1.50		MADE GROUND: Soft reddish brown sandy peaty clay. Clay land drain encountered at 0.8m.		
2.50		D		(0.70) 2.20	(0.30) 2.50	2	MADE GROUND: Medium light brown sand with abundant pockets of grey sand and occasional stiff grey clay [reworked].		
							Medium light brown SAND.		
							Soft grey sandy SILT with abundant lenses of medium light brown sand.		
							Medium light brown/grey SAND.		
						3	End of Trial Pit at 2.50 m		
						4			
						5			
						6			
						7			
						8			
						9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389471.88 N - 381731.38	GROUND ELEVATION (mAOD) 86.012	HOLE DEPTH (m) 2.40	Sheet 1 of 1	TRIAL PIT TP75
PLANT	DIMENSIONS -	DATE 18/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		Soft very sandy TOPSOIL with occasional pockets of pale grey sand and occasional subangular to subrounded gravel and cobbles of mixed lithology.		
0.60		D		(0.60)			MADE GROUND: Brown reworked sand with pockets of reddish brown and dark brown sand and occasional fragments of clay pipe.		
1.00		D		85 (0.40)		1	Light brown SAND with abundant pockets of reddish brown sand and stiff grey sandy silt.		
1.50		D		(0.50)			Grey laminated silty SAND with abundant lenses of medium light brown sand.		
1.80		D		84 (0.70)		2	Light brown SAND with some lenses of firm grey clay.		
2.50		D				2.40	End of Trial Pit at 2.40 m		
				83		3			
				82		4			
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			







GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 391376.02 N - 382519.91	GROUND ELEVATION (mAOD) 90.702	HOLE DEPTH (m) 3.20	Sheet 1 of 1	TRIAL PIT TP76
PLANT	DIMENSIONS -	DATE 23/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.17		D		(0.15)	0.15		MADE GROUND: Concrete		
0.50		D		(0.15)	0.30		MADE GROUND: Black sandy subangular gravel of bitumen. Hydrocarbon odour.		
				(0.50)			MADE GROUND: Light brown sandy clay [reworked].		
				0.80					
1.10		HV	1 - 40kPa	90		1	Soft light yellow brown sandy CLAY.		
1.10		HV	2 - 50kPa	(0.90)					
1.10		HV	3 - 30kPa						
1.10		D							
1.80		D				1.70	Firm to stiff light brown CLAY.		
				89		2			
				(1.50)					
3.20		D		88		3			
						3.20	End of Trial Pit at 3.20 m		
				87		4			
				86		5			
				85		6			
				84		7			
				83		8			
				82		9			






GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389238.10 N - 382708.04	GROUND ELEVATION (mAOD) 90.130	HOLE DEPTH (m) 1.80	Sheet 1 of 1	TRIAL PIT TP77
PLANT	DIMENSIONS -	DATE 25/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.10		D		(0.20)	0.20		MADE GROUND: Light brown silty reworked topsoil.		
0.40		D		(0.65)			MADE GROUND: Light brown sandy gravelly clay with some whole bricks, concrete and clinker, plastic.		
0.90		D		(0.10)	0.85		MADE GROUND: Black sandy subangular gravel. Gravel is ash with hydrocarbon odour		
1.10		D		(0.25)	0.95	1			
				(0.50)			Soft grey SILT (Original topsoil).		
1.60		D					Soft grey sandy CLAY.		
1.80		D		(0.10)	1.70		Soft orange brown sandy CLAY (Weathered SS)		
				88		2	End of Trial Pit at 1.80 m		
				87		3			
				86		4			
				85		5			
				84		6			
				83		7			
				82		8			
				81		9			


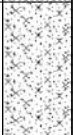


GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd		BAE SYSTEMS	
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389187.34 N - 382066.03	GROUND ELEVATION (mAOD) 85.609	HOLE DEPTH (m) 3.10	Sheet 1 of 1	TRIAL PIT TP78
PLANT	DIMENSIONS -	DATE 24/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.20)	0.20		MADE GROUND: Bituminous surfacing.		
				(0.40)			MADE GROUND: Concrete.		
0.80		D			0.60		Soft to firm light orange brown sandy CLAY.		
				85 (0.90)		1			
1.60		D			1.50		Red brown clayey fine to medium SANDY CLAY.		
				84 (1.30)		2			
2.20		D							
3.10		D					Stiff light red brown sandy CLAY.		
				83 (0.30)		3			
							End of Trial Pit at 3.10 m		
				82		4			
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			


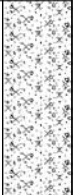


GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS	KEY
	Sides unstable collapsing from 1.9m, running sand 2.2m. Trial pit backfilled with arisings.	B - Bulk disturbed sample D - Disturbed samples (plastic tub) G - Disturbed sample (glass jar) ES - Disturbed sample (tub and jar) W - Water sample HV - In Situ Hand Vane Test M - In Situ Mexecon CBR Test P - In Situ CBR Plate Test PID - Photo Ionisation Detector
Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688		BAE TP Log v1.3

SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389457.68 N - 381543.75	GROUND ELEVATION (mAOD) 87.968	HOLE DEPTH (m) 3.20	Sheet 1 of 1	TRIAL PIT TP79
PLANT	DIMENSIONS -	DATE 27/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
0.30		D		(0.60)			Very soft light brown very sand SILT with organic odour [topsoil].		
0.70		D		87 (0.90)	0.60	1	Orange brown silty SAND with occasional subrounded gravel of sandstone.		
1.60		D		(0.20)	1.50		Firm orange brown mottled grey very sandy SILT		
1.90		D		86	1.70	2	Very soft pink orange very sandy SILT		
2.80		D		(1.50)		3			
				85		3.20	End of Trial Pit at 3.20 m		
				84		4			
				83		5			
				82		6			
				81		7			
				80		8			
				79		9			


GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Sides unstable and collapsing from approximately 2.5. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389583.29 N - 381446.10	GROUND ELEVATION (mAOD) 85.849	HOLE DEPTH (m) 3.50	Sheet 1 of 1	TRIAL PIT TP80
PLANT	DIMENSIONS -	DATE -	LOGGED BY	CHECKED BY	SCALE 1:50


SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
				(0.40)			Soft black sandy silt with organic odour [Topsoil].		
				0.40			Orange very silty SAND with some subrounded gravel and occasional cobbles of mixed lithology. Silt content decreases with depth.		
				85 (1.30)		1			
				1.70			Very soft red mottled orange very sandy SILT.		
				84 (1.00)		2			
				2.70			Orange slightly silty SAND		
				83 (0.80)		3			
				3.50			End of Trial Pit at 3.50 m		
				82		4			
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389456.24 N - 381544.19	GROUND ELEVATION (mAOD) 88.013	HOLE DEPTH (m) 1.40	Sheet 1 of 1	TRIAL PIT TPA
PLANT	DIMENSIONS -	DATE -	LOGGED BY	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE THICKNESS (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
				(0.40)		0.40	MADE GROUND: Brown sandy silt with much subrounded gravel of bitumen, concrete and metal.		
				(0.80)		1	MADE GROUND: Brown mottled yellow sandy slightly silty clay with occasional subrounded gravel of mixed lithology.		
				(0.20)		1.40	MADE GROUND: Red brown sandy angular to subangular gravel of brick, concrete and occasional clinker.		
End of Trial Pit at 1.40 m									
						2			
						3			
						4			
						5			
						6			
						7			
						8			
						9			

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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SITE Woodford Phase 1 SI		CLIENT Avro Heritage Ltd			
PROJECT NUMBER A1065-00	CO-ORDINATES E - 389583.89 N - 381444.01	GROUND ELEVATION (mAOD) 85.719	HOLE DEPTH (m) 1.20	Sheet 1 of 1	TRIAL PIT TPB
PLANT	DIMENSIONS -	DATE -	LOGGED BY	CHECKED BY	SCALE 1:50

SAMPLES & TESTS				STRATA				LEGEND	WATER
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) (mbgl (m))	DEPTH (mbgl)	DESCRIPTION		
				(0.30)	0.30		MADE GROUND: Black sandy silt with organic odour.		
				(0.60)			MADE GROUND: Grey sandy slightly silty angular to subangular medium to coarse gravel of limestone, concrete and brick.		
				85	0.90	1	End of Trial Pit at 1.20 m		
				84		2			
				83		3			
				82		4			
				81		5			
				80		6			
				79		7			
				78		8			
				77		9			

GROUNDWATER DEPTH (m) BEHAVIOUR	REMARKS Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings. Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688	KEY B - Bulk disturbed sample HV - In Situ Hand Vane Test D - Disturbed samples (plastic tub) M - In Situ Mexecon CBR Test G - Disturbed sample (glass jar) P - In Situ CBR Plate Test ES - Disturbed sample (tub and jar) PID - Photo Ionisation Detector W - Water sample
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BOREHOLE LOG

Hole No.
BH101

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**23-06-14
24-06-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By J Watson	Co-Ordinates (NGR) E 389687.160 N 382859.970	Ground Level (m AOD) 90.530
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30-0.40	ES		0				90.33	0.20	MADE GROUND: ASPHALT		MG	
0.70-0.80	ES		0						MADE GROUND: Brown and grey brown occasionally black gravelly SAND with occasional roots. Gravel is fine to coarse angular and subangular of ash, clinker, coal, sandstone and various lithologies.		MG	
1.00-1.20	ES		0				(2.00)					
2.00	SPT	1.0, 1.0, 1.1 N=3(S)	0				88.33	2.20				
2.00-2.45	D		0				87.33	3.20	Very soft extremely low to very low strength light grey silty organic CLAY with occasional pockets (10-30mm) of brown amorphous peat. (SUPERFICIAL DEPOSITS)		SUPD	
2.40-2.60	ES			80					Firm medium and high strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.75	D			80								
3.00-3.45	U100	19 blows		72								
3.40-3.60	ES			70								
3.75	D			70								
4.00-5.00	U100	31 blows		70				(4.00)				
4.75	D			78					6.95 Cobble		GDU	
5.00	SPT	1.2, 2.4, 2.5 N=13(S)		78								
5.00-5.45	D			56					Medium dense orangish brown fine SAND. (GLACIAL DEPOSITS)		GDU	
6.50-6.95	U100	67 blows		40								
				70			83.33	7.20				
8.00	SPT	1.1, 2.5, 2.9 N=18(S)					81.93	8.60	Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
8.00-8.45	D								Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
8.75	D											
9.50-9.95	U100	71 blows							Medium dense orangish brown fine SAND. (GLACIAL TILL)		GDU	
10.00	D											
11.00	SPT	2.3, 2.5, 3.3 N=13(S)							Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
11.00-11.45	D											
11.75	D						77.93	12.60				
12.50	SPT	2.3, 4.4 N=15(S)					77.53	13.00	Medium dense orangish brown fine SAND. (GLACIAL DEPOSITS)		GDU	
14.00-14.45	D	SPT						(1.45)				
							76.08	14.45	Borehole terminated at 14.45m bgl			

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ.WSPTEMPLATE1.03.GDT. 11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
23-06-14	00.00	9.00	9.00					1.10	20	1.10	1.00
24-06-14	00.00	14.45	14.45					12.00	20	9.80	12.00
Chiselling			Water Added			General Remarks Borehole complete at 14.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.1m bgl as seepage and at 12.0m bgl as groundwater. Hole installed upon completion. Response zone 2.4 to 14.4m bgl.					
From	To	Hours	Tool	From	To						
						Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.					

Scale 1:125



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BOREHOLE LOG

Hole No.
BH102

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**14-07-14
15-07-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By S McGeever	Co-Ordinates (NGR) E 389250.480 N 382705.460	Ground Level (m AOD) 90.020
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
							88.32	1.70	MADE GROUND: Light brown sandy ashy GRAVEL. Gravel is fine to coarse subangular to rounded of limestone, brick and various lithologies.		GMG	
2.00-2.45	U100								Stiff light brown and orangish grey gravelly CLAY with sand lenses. (GLACIAL DEPOSITS)		GDU	
2.75	D											
3.00	SPT	2,3,2 3,4,5 N=14(S)										
3.75	D											
4.00-4.45	U100								Light brownish red fine SAND. (GLACIAL DEPOSITS)		GDU	
4.45-4.50	D											
5.00	D											
6.50	SPT	4,4,6 7,8,8 N=29(S)										
7.50	D											
8.00-8.45	U100											
9.00	D											
9.50	SPT	6,6,5 5,11,17 N=38(S)										
10.00-10.50	B											
11.00	SPT	3,3,5 4,6,8 N=23(S)										
11.50-12.00	B											
12.00	SPT	3,3,2 3,4,5 N=14(S)										

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ.WSPTEMPLATE1.03.GDT. 11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								4.50 9.50	10	3.10	
Chiselling			Water Added								
From	To	Hours	Tool	From	To	General Remarks					
						Borehole complete at 12.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 4.50m bgl as seepage and at 9.5m bgl as groundwater. Hole installed upon completion. Response zone 9 to 12m bgl.					
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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BOREHOLE LOG

Hole No.
BH103

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
26-06-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By J Watson	Co-Ordinates (NGR) E 389354.860 N 382553.380	Ground Level (m AOD) 90.330
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SAMPLES & TESTS						STRATA						Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm	
0.40-0.60	ES		0				(1.00)	MADE GROUND: Grass over brown clayey gravelly SAND with occasional sandstone cobbles and occasional metal fragments. Gravel is fine and coarse of brick, ash, clinker and sandstone.		MG		
1.00	SPT	3,13,30 20 N=50/ 0.125(S)	0			89.33 89.13 88.73	1.00 1.20 1.60	MADE GROUND: Soft brown sandy gravelly CLAY with occasional cobbles. Gravel is fine and medium of brick, ash and clinker.		MG MG		
1.00-1.20	ES					87.83	2.50	MADE GROUND: Cobble / Boulder of sandstone.		GDU		
1.50-1.70	ES			70				Firm locally soft greenish brown mottled brown sandy slightly gravelly CLAY. Gravel is fine and coarse rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
2.00	SPT	1,0,1 0,0,1 N=2(S)		50				Firm locally stiff greenish brown mottled brown sandy slightly gravelly CLAY. Gravel is fine and coarse rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
2.00-2.45	D			40								
2.75	D											
3.00-3.45	U100	17 blows		40								
3.45-3.60	D											
4.50	D											
5.00	SPT	2,3,3 4,5,6 N=18(S)		70			(6.25)					
5.75	D											
6.50-6.95	U100	30 blows		70								
6.95	D			86								
8.00	SPT	2,2,2 3,5,5 N=15(S)		40		81.58	8.75					
8.00-8.45	D					80.83	9.50	Orange brown medium SAND. (GLACIAL DEPOSITS)		GDU		
9.50	SPT	2,3,2 3,3,3 N=11(S)						Medium dense reddish brown medium SAND. (GLACIAL DEPOSITS)		GDU		
9.50-9.95	D											
10.00-10.50	B											
11.00	SPT	2,2,3 2,3,3 N=11(S)										
11.00-11.45	D											
11.75	D											
12.50	SPT	4,4,4 3,3,3 N=13(S)					(5.95)					
12.50-12.95	D											
13.00-13.50	B											
14.00	SPT	2,2,3 3,4,5 N=15(S)										
14.00-14.45	D											
15.00	SPT	2,3,4 3,4,6 N=17(S)				74.88	15.45	Borehole terminated at 15.45m bgl				
15.00-15.45	D											

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ_WSPTEMPLATE1.03.GDT_11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								7.50			
Chiselling			Water Added								
From	To	Hours	Tool	From	To	General Remarks					
1.4	1.6	0030	140mm Cross chisel			Borehole complete at 15.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 7.50m bgl as seepage. Hole installed upon completion. Response zone 9 to 15m bgl.					
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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BOREHOLE LOG

Hole No.
BH104

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**26-06-14
27-06-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By J Watson / S McGeever	Co-Ordinates (NGR) E 389716.710 N 382556.790	Ground Level (m AOD) 90.640
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.40-0.50	ES		0			90.60	0.04	MADE GROUND: ASPHALT.		TARMAC CONC		
0.60-0.80	ES		0			90.55	0.09	MADE GROUND: CONCRETE.		TARMAC CONC		
						90.49	0.15	MADE GROUND: ASPHALT.		CONC		
						90.32	0.32	MADE GROUND: ASPHALT.		CONC		
1.30-1.50	ES		0			89.74	0.90	MADE GROUND: CONCRETE.		MG		
1.50	SPT	2.3,5 7.6,8 N=26(C)				89.34	1.30	MADE GROUND: CONCRETE.		GDU		
1.50-1.95	B						(3.30)	MADE GROUND: Dark grey and orange clayey sandy fine to coarse subangular GRAVEL of brick and sandstone				
2.00	SPT	3.4,5 5.5,6 N=21(C)						Brown fine SAND. (GLACIAL DEPOSITS)		GDU		
2.00-2.45	B							Medium dense brown gravelly medium and coarse SAND. Gravel is fine to coarse subrounded to rounded of various lithologies. (GLACIAL DEPOSITS)				
3.00	SPT	3.3,6 5.4,4 N=19(C)				86.04	4.60	Dense brown SAND and fine to coarse subangular to rounded GRAVEL of various lithologies. (GLACIAL DEPOSITS)		GDU		
3.00-3.45	B							Loose light brown fine SAND. (GLACIAL DEPOSITS)		GDU		
4.00	SPT	7,10,15 17,7,6 N=45(C)				85.44	5.20	Very soft light reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
4.00-4.45	B							Medium dense brown silty fine and medium SAND. (GLACIAL DEPOSITS)		GDU		
5.00	SPT	2.2,2 2.2,4 N=10(S)				84.24	6.40	Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
5.00-5.45	B							Medium dense light brown silty fine SAND. (GLACIAL DEPOSITS)		GDU		
6.00	D							Firm brown silty CLAY. (GLACIAL DEPOSITS)		GDU		
6.50	SPT	1.0,1 0.0,2 N=3(S)				82.44	8.20	Stiff brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
6.50-6.95	B							Stiff brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
8.00	SPT	2.3,3 3.4,4 N=14(S)				81.04	9.60	14.45 m bgl; Borehole terminated at 14.45m bgl				
9.50-9.95	U100	74 blows No recovery					(1.70)					
10.50	D					79.34	11.30					
11.00	SPT	5.4,3 2.3,3 N=11(S)				78.84	11.80					
12.00	D						(1.50)					
12.50-12.95	U100	63 blows No recovery				77.34	13.30					
13.00-13.50	B						(1.15)					
14.00	SPT	2.3,3 2.3,2 N=10(S)				76.19	14.45					

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ.WSPTEMPLATE1.03.GDT 11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								8.60			
Chiselling						Water Added					
From	To	Hours	Tool	From	To	General Remarks					
						Borehole complete at 14.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 8.6m bgl as groundwater. Hole installed upon completion. Response zone 8.0 to 14.0m bgl.					
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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BOREHOLE LOG

Hole No.
BH105

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**09-07-14
10-07-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By S McGeever	Co-Ordinates (NGR) E 389412.570 N 382235.640	Ground Level (m AOD) 87.020
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
							86.71	0.31	MADE GROUND: ASPHALT		GMG	
							86.57	0.45	Firm locally stiff greyish brown mottled reddish brown slightly gravelly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
1.20-1.65	U100							(1.95)	Firm locally stiff reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.65-1.75	D											
2.40	SPT	3.34 5.45 N=18(S)					84.62	2.40	Light yellowish orange fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
2.40-2.85	B						83.42	3.60				
3.00	SPT	2.32 2.34 N=11(S)					83.02	4.00	Stiff dark brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
3.00-3.45	B											
3.75	D											
4.00-4.45	U100											
4.75	D											
5.00	SPT	1.1,2 1.2,3 N=8(S)						(5.00)			GDU	
6.00	D											
6.50	SPT	1.1,1 1.2,3 N=7(S)										
7.50	D											
8.00	SPT	1.1,1 2.1,2 N=6(S)					78.02	9.00	8.00 m bgl; becoming sandy			
9.00	D						77.52	9.50	Light brown slightly silty CLAY. (GLACIAL DEPOSITS)		GDU	
9.50-9.95	U100											
9.60-10.00	B						76.72	10.30	Light brown fine SAND. (GLACIAL DEPOSITS)		GDU	
10.50	D											
11.00	SPT	1.2,2 1.3,2 N=8(S)						(2.30)			GDU	
12.00	D						74.42	12.60	Firm light brown very silty CLAY. (GLACIAL DEPOSITS)			
12.50	SPT	1.2,1 2.2,2 N=7(S)										
12.50-12.95	B							(1.85)			GDU	
13.50	D											
14.00	SPT	1.2,1 1.2,2 N=6(S)					72.57	14.45	Loose brown fine and medium SAND. (GLACIAL DEPOSITS)			
									Borehole terminated at 14.45m bgl			

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ.WSPTEMPLATE1.03.GDT 11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								2.30 10.50	20	9.60	
Chiselling			Water Added								
From	To	Hours	Tool	From	To	General Remarks					
						Borehole complete at 14.45m bgl. No visual or olfactory evidence of hydrocarbon contamination observed. No radiological readings above background recorded. Groundwater encountered at 9.5m bgl. Hole installed upon completion. Response zone from 9m to 14m bgl.					
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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BOREHOLE LOG

Hole No.
BH106

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**03-07-14
04-07-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By J Watson	Co-Ordinates (NGR) E 389677.940 N 381326.530	Ground Level (m AOD) 82.220
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SAMPLES & TESTS						STRATA						Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm	
0.20-0.40	ES		0			82.02	0.20	MADE GROUND: ASPHALT.		TARMAC		
0.50-0.60	ES		0			81.72	0.50	MADE GROUND: Sandy fine and medium sub angular GRAVEL of ash		MG		
						81.12	1.10	clinker and limestone with pockets soft clay.		GDU		
1.20	SPT	1,1,1 1,3,3 N=8(S)		40				Brown silty fine SAND. (GLACIAL DEPOSITS)				
1.20-1.65	D			30			(1.90)	Soft locally firm low strength light brown sandy slightly gravelly CLAY. Gravel is fine and medium angular to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
1.75	D											
2.00	SPT	1,2,1 0,1,0 N=2(S)		50		79.22	3.00	2.00 - 2.50 m bgl; soft low strength				
				86		79.02	3.20	2.50 m bgl; firm medium strength		GDU		
2.00-2.45	D					78.22	4.00	Stiff high strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
2.75	D					77.82	4.40			GDU		
3.00	SPT	2,3,3 2,3,2 N=10(S)		56		77.52	4.70	Greyish brown gravelly medium and coarse SAND. Gravel is fine and medium occasionally coarse rounded and subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
3.00-3.45	D			50		76.92	5.30	Stiff dark brown sandy CLAY. (GLACIAL DEPOSITS)		GDU		
3.05-3.50	U100	54 blows						Greyish brown medium and coarse SAND and GRAVEL. Gravel is fine to coarse rounded and subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
4.00-4.45	D											
4.75	D											
5.00-5.45	U100	63 blows					(2.70)	Stiff medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
5.45-5.50	D											
6.50	SPT	2,3,2 2,3,3 N=10(S)				74.22	8.00	Medium dense brown silty fine SAND. (GLACIAL DEPOSITS)		GDU		
6.50-6.95	D					74.02	8.20	Stiff reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS)		WLSF		
6.51-6.95	D											
7.50	D											
8.00	SPT	3,4,6 10,16,18 N=50/ 0.235(S)				73.16	9.06	Very dense reddish brown fine SAND. (WEATHERED WILMSLOW SANDSTONE FORMATION)				
8.00-8.39	D							Borehole refused on competent strata at 9.06m bgl				
8.50	D											
9.00	SPT	25,100 N=100/ 0.04(S)										

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
02-07-14	00.00	4.00		150				3.80	20	3.80	3.00
03-07-14	00.00	9.06									
Chiselling			Water Added			General Remarks Borehole complete at 9.06m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.8m bgl as groundwater. Hole installed upon completion. Response zone 6.0 to 9.0m bgl.					
From	To	Hours	Tool	From	To						
8	9.2	01:00	Cross chisel								
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ.WSPTEMPLATE1.03.GDT. 11/12/14



WSP
150-182 The Quays
M50 3SP
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BOREHOLE LOG

Hole No.
BH107

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**03-07-14
04-07-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By J Watson / S McGeever	Co-Ordinates (NGR) E 389383.510 N 381633.320	Ground Level (m AOD) 89.350
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30-0.40	ES		0				89.25	0.10	MADE GORUND: CONCRETE.		CONC	[Pattern]
0.50-0.60	ES						89.06	0.29	MADE GROUND: CONCRETE with 8mm diameter rebar		CONC	
1.20	SPT	1,1,2 2,2,3 N=9(S)					88.85	0.50	MADE GROUND: Dark grey and black sandy fine and medium angular to subrounded GRAVEL of ash and clinker.		MG	[Pattern]
1.20-1.65	D								Dark grey slightly clayey slightly gravelly SAND. Gravel is fine and medium angular to subangular of various lithologies (GLACIAL DEPOSITS).		GDU	
1.40-1.50	ES								Firm medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies (GLACIAL DEPOSITS).		GDU	[Pattern]
1.75	D										GDU	
2.00-2.45	U100	30 blows No recovery						(4.30)			GDU	[Pattern]
2.50	D										GDU	
3.20	SPT	1,1,2 3,3,4 N=12(S)									GDU	[Pattern]
3.20-3.65	D										GDU	
3.75	D						83.75	5.60			GDU	[Pattern]
4.00-4.45	U100								Firm reddish brown locally silty CLAY (GLACIAL DEPOSITS).		GDU	
5.00	SPT	2,2,3 2,3,4 N=12(S)						(2.50)			GDU	[Pattern]
5.00-5.45	D										GDU	
5.75	D										GDU	[Pattern]
6.50-7.00	B										GDU	
6.50-6.95	U100						81.25	8.10			GDU	[Pattern]
7.50	D								Medium dense orangish brown SAND (GLACIAL DEPOSITS).		GDU	
8.00	SPT	2,3,3 2,3,2 N=10(S)						(1.30)			GDU	[Pattern]
8.00-8.45	D										GDU	
8.00-8.45	B										GDU	[Pattern]
9.00	D										GDU	
9.50-9.95	SPT	2,1,2 3,2,3 N=10(S)						(3.05)			GDU	[Pattern]
10.50	D										GDU	
11.00	SPT	3,3,3 3,3,3 N=12(S)									GDU	[Pattern]
11.00-11.45	D										GDU	
11.00-11.45	B										GDU	[Pattern]
12.00	SPT	2,3,3 2,3,4 N=12(S)									GDU	
12.00-12.45	D						76.90	12.45	Borehole terminated at 12.45m bgl			[Pattern]

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ.WSPTEMPLATE1.03.GDT 11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								8.50			
Chiselling			Water Added			General Remarks Borehole complete at 12.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 8.50m bgl as groundwater. Dual installation upon completion to target deep groundwater and ground gas. Response zones 1.0 to 4.0m and 7.0 to 12.0m bgl.					
From	To	Hours	Tool	From	To						
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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BOREHOLE LOG

Hole No.
BH108

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**07-07-14
08-07-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By J Watson / S McGeever	Co-Ordinates (NGR) E 389541.340 N 381810.180	Ground Level (m AOD) 85.250
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SAMPLES & TESTS						STRATA						Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm	
0.20-0.40	ES		0			85.15	0.10	MADE GROUND: ASPHALT.		TARMAC		
						85.05	0.20	MADE GROUND: CONCRETE.		CONC		
						84.35	0.90			MG		
1.00-1.20	ES		0			83.85	1.40	MADE GROUND: Sandy clayey fine to coarse GRAVEL of sandstone, concrete, brick and limestone with occasional cobbles.		PEAT		
1.20-1.65	U100	13 blows										
1.75	D											
2.00	SPT	1,0,1 2,2,2 N=7(S)					(1.90)	Soft reddish brown slightly clayey pseudofibrous PEAT. (SUPERFICIAL DEPOSITS)				
2.00-2.45	D					81.95	3.30	Firm light greyish blue silty CLAY. (GLACIAL DEPOSITS)		GDU		
2.75	D											
3.00	SPT	1,1,2 1,3,4 N=10(S)				80.85	4.40	Medium dense fine to coarse SAND and fine to coarse subangular to rounded GRAVEL. (GLACIAL DEPOSITS)		GDU		
3.00-3.50	B											
3.05-3.45	D					80.15	5.10	Reddish brown slightly gravelly CLAY. Gravel is fine and medium subrounded. (GLACIAL DEPOSITS)		GDU		
4.00	SPT	3,2,3 3,4,4 N=14(S)						Firm light brown silty CLAY with occasional lenses of orange brown fine and medium sand. (GLACIAL DEPOSITS)				
4.75	D						(4.50)					
5.00-5.45	U100	36 blows No Recovery										
5.75	D											
6.50	SPT	1,1,2 1,2,2 N=7(S)										
6.50-6.95	D											
7.50	D											
8.00	SPT	2,1,1 1,1,2 N=5(S)				75.65	9.60	Stiff and very stiff dark brown CLAY with occasional sand bands. (GLACIAL DEPOSITS)				
8.00-8.45	D											
9.00	D											
9.50	SPT	3,3,4 5,3,5 N=17(S)					(3.90)					
9.50-9.95	D											
10.50	D											
11.00	SPT	4,4,5 6,16,21 N=48(S)										
11.00-11.45	D											
12.00	D					71.75	13.50	Borehole terminated at 13.5m bgl				
12.50	SPT	4,5,5 6,8,9 N=28(S)										
12.50-12.95	D											
13.00	D											

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ.WSPTEMPLATE1.03.GDT. 11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								1.20			
								6.50			
Chiselling						Water Added					
From	To	Hours	Tool	From	To	General Remarks					
						Borehole complete at 13.50m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.2m bgl as seepage and at 6.5m bgl as groundwater. Hole installed upon completion. Response zone 10.5 to 13.5m bgl.					
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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BOREHOLE LOG

Hole No.
BH109

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**01-07-14
02-07-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By S McGeever	Co-Ordinates (NGR) E 389641.120 N 382034.510	Ground Level (m AOD) 85.820
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES					85.73	0.09	MADE GROUND: Grass over brown CLAY. (TOPSOIL)		TS	
0.80	ES					84.82	1.00	MADE GROUND: Dark brown mottled black gravelly SAND. Gravel is fine and medium of ash, coal, slag and clinker (MADE GROUND)		GMG	
1.20	ES							Firm to stiff reddish brown mottled light grey slightly sandy gravelly CLAY. (GLACIAL DEPOSITS)		GDU	
1.20-1.65	U100	12 blows 100% Recovery					(1.90)				
1.65-1.70	D							Loose light brown fine SAND. (GLACIAL DEPOSITS)		GDU	
2.00	SPT	3,3,3 2,3,3 N=11(S)					82.92		2.90		
2.75	D							Firm dark brown, slightly sandy, gravelly CLAY. Gravel is fine to coarse sunbrowned to well rounded of various lithologies. (GLACIAL DEPOSITS) Stiff dark brown gravelly CLAY. (GLACIAL DEPOSITS)		GDU	
3.00	SPT	1,0,1 1,2,2 N=6(S)							(2.70)		
3.75	D							Soft to firm light brown CLAY (GLACIAL DEPOSITS)		GDU	
4.00	SPT	1,1,2 1,2,2 N=7(S)							80.22		
4.75	D							Light brown slightly sandy slightly gravelly CLAY. Gravel is coarse of various lithologies. (GLACIAL DEPOSITS)		GDU	
5.00-5.45	U100	29 blows 0% Recovery							79.52		
6.00	D							Borehole terminated at 14m bgl			
6.50-6.95	U100	38 blows 70% Recovery								(4.20)	
7.50	D							Borehole terminated at 14m bgl			
8.50	SPT	2,2,3 2,3,4 N=12(S)								(2.30)	
9.50-9.95	U100	34 blows 70% Recovery						Borehole terminated at 14m bgl			
10.50	D									75.32	10.50
11.00	SPT	2,1,1 2,2,2 N=7(S)						Borehole terminated at 14m bgl			
12.00	D									73.02	12.80
12.50	SPT	2,6,6 9,9,10 N=34(S)						Borehole terminated at 14m bgl			
13.00-13.50	B									(1.20)	
14.00	SPT	3,2,1 3,3,3 N=10(C)						Borehole terminated at 14m bgl			
										71.82	14.00

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ.WSPTEMPLATE1.03.GDT. 11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								5.20	20	3.80	
								12.80	20	6.10	
Chiselling			Water Added			General Remarks Borehole complete at 14.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 5.2m bgl and 12.80m bgl as groundwater. Hole installed upon completion. Response zone 8.00 to 14.00m bgl.					
From	To	Hours	Tool	From	To						
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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BOREHOLE LOG

Hole No.
BH110

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
01-07-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By S McGeever	Co-Ordinates (NGR) E 389691.170 N 382286.990	Ground Level (m AOD) 87.330
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.20	ES					86.98	0.35	Grass over brown slightly clayey, slightly gravelly, fine to medium SAND (TOPSOIL)		TS		
1.20	SPT	1,2,2 3,3,4 N=12(S)					(2.65)	Medium dense light brown gravelly fine SAND. Gravel is fine and medium subrounded and rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
1.20-1.65	B											
2.00	SPT	3,3,3 2,3,4 N=12(S)				84.33	3.00	Dark brown slightly sandy, gravelly CLAY. (GLACIAL DEPOSITS)		GDU		
2.00-2.45	B						(1.10)					
3.00	SPT	2,3,2 2,3,3 N=10(S)				83.23	4.10	Light brown slightly sandy, silty, CLAY (GLACIAL DEPOSITS)		GDU		
3.10	ES						(2.10)					
3.75	D											
4.00-4.45	U100	0%										
4.75	D											
5.00	SPT	1,0,1 0,2,2 N=5(S)				81.13	6.20	Stiff dark brown slightly silty CLAY. (GLACIAL DEPOSITS)		GDU		
5.00-5.45	B											
6.50-6.95	U100	0%										
7.50	D											
8.00	SPT	2,3,3 3,4,5 N=15(S)					(4.20)					
9.00	D											
9.50	U100	95%										
9.95-10.00	D											
						76.93	10.40					
						76.63	10.70	Stiff light brown CLAY (GLACIAL DEPOSITS)		GDU		
11.00	SPT	3,5,5 6,8,9 N=28(S)					(3.30)	Medium dense light brownish yellow gravelly, SAND. Gravel is fine to coarse, subrounded to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
12.00	D											
12.50	SPT	2,3,3 5,3,4 N=15(S)										
13.50	D											
14.00	SPT	3,2,3 4,4,5 N=16(C)				73.33	14.00	Borehole terminated at 14m bgl				
14.00	D											

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ.WSPTEMPLATE1.03.GDT 11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								11.50	10	7.50	
Chiselling			Water Added								
From	To	Hours	Tool	From	To	General Remarks					
						Borehole complete at 14.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 11.50m bgl as groundwater. Hole installed upon completion. Response zone 9.00 to 14.00m bgl.					
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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BOREHOLE LOG

Hole No.
BH111

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**11-07-14
11-07-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By S McGeever	Co-Ordinates (NGR) E 390050.210 N 382505.270	Ground Level (m AOD) 87.330
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (m AOD)	Depth (Thickness)	Description	Legend	Geology	
							87.18	0.15	TOPSOIL: Brown clayey SAND with rootlets.		TS	
								(1.15)	Stiff light brownish grey CLAY.		GDU	
1.00-1.45	U100						86.03	1.30	Loose light brown fine SAND.			
1.45-1.55	D											
2.00	SPT	1,2,2 2,1,1 N=6(S)										
2.00-2.45	B											
3.00	SPT	1,2,1 1,1,1 N=4(S)										
3.00-3.45	B											
4.00	SPT	1,1,1 1,2,2 N=6(S)										
4.45-5.00	B											
5.00	SPT	1,2,2 1,2,2 N=7(S)										
6.50	SPT	1,1,2 1,2,3 N=8(S)					80.23	7.10	Stiff reddish brown slightly gravelly slightly sandy CLAY with occasional silty pockets.		GDU	
7.50	D						79.43	7.90	Light brown fine SAND.			
8.00	SPT	(S)										
8.50-9.00	B											
9.50	SPT	1,2,2 1,2,3 N=8(S)										
10.50-11.00	B								10.50 - 11.50 m bgl; band of gravel.			
11.00	SPT	3,4,2 2,1,2 N=7(S)										
11.50-12.00	B						75.33	12.00	Borehole terminated at 12m bgl			
12.00	SPT	2,3,2 1,3,3 N=9(S)										

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ_WSPTEMPLATE1.03.GDT_11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								8.00	20	5.20	
Chiselling			Water Added								
From	To	Hours	Tool	From	To	General Remarks					
						Borehole complete at 12.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 9.50m bgl as groundwater. Hole installed upon completion. Response zone 9 - 12 m bgl.					
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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BOREHOLE LOG

Hole No.
BH112

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**11-07-14
14-07-14**

Contractor / Driller Geo Site Surveys Ltd	Method/Plant Used Dando 2000	Logged By S McGeever	Co-Ordinates (NGR) E 389932.030 N 382102.010	Ground Level (m AOD) 85.060
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
							84.76	0.30	Brown sandy CLAY with rootlets (TOPSOIL)		TS	
1.00-1.45	U100							(1.20)	Stiff light brown occasionally grey slightly gravelly CLAY. Gravel is fine and medium, subrounded and rounded. (GLACIAL DEPOSITS)		GDU	
1.45-1.50	D						83.56	1.50	Loose fine light brown SAND (GLACIAL DEPOSITS)		GDU	
2.00	SPT	1,1,2 1,2,1 N=6(S)										
2.50-3.00	B											
3.00	SPT	1,1,1 2,2,1 N=6(S)						(4.80)				
4.00	SPT	1,1,1 1,2,2 N=6(S)										
4.50-5.00	B											
5.00	SPT	1,2,1 1,2,2 N=6(S)										
6.30	D						78.76	6.30	Firm light brown, gravelly CLAY, with occasional pockets of brown medium sand. (GLACIAL DEPOSITS)		GDU	
6.50-6.95	U100											
7.50	D											
8.00	SPT	2,3,4 4,5,5 N=18(S)										
							75.76	9.30	Loose becoming medium dense light brownish red fine SAND (GLACIAL DEPOSITS)		GDU	
9.50	SPT	1,2,2 1,1,1 N=5(S)										
9.50-9.95	B							(2.70)				
11.00	SPT	2,3,3 3,4,4 N=14(S)										
12.00	SPT	3,3,5 4,4,4 N=17(S)					73.06	12.00	Borehole terminated at 12m bgl			

08 WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ.WSPTEMPLATE1.03.GDT 11/12/14

Boring Progress						Water Strikes					
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								9.50			
Chiselling			Water Added			General Remarks Borehole complete at 12.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 9.50m bgl as groundwater. Hole installed upon completion. Response zone 7 to 12m bgl.					
From	To	Hours	Tool	From	To						
Scale 1:125		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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TRIAL PIT LOG

Hole No.
ST1

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
21-08-14
21-08-14

Contractor / Driller Electricity Northwest	Method/Plant Used Unknown	Logged By David Duncan	Co-Ordinates (NGR) E 389429.000 N 382446.000	Ground Level (m AOD)
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SAMPLES & TESTS						STRATA				Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	
							0.15	MADE GROUND: Concrete Slab		MG
							0.45	MADE GROUND: Orangish brown sandy GRAVEL with occasional cobbles. 0.15 - 0.30 m bgl Suspected ACM (roof tile) encountered in spoil stockpile.		MG
0.80-1.00	ES	1					0.60	MADE GROUND: Greyish brown sandy gravelly CLAY		MG
1.00-1.10	ES	1				(1.30)	0.90 - 1.10 m bgl Pitch-like substance and ashy material encountered in the re-worked clay. Very mild tar odour.			
1.10-1.80	ES	0					1.90			
1.90-2.10	ES	0					2.10	MADE GROUND: Red Gravelly SAND (Pipe bed)		MG

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 8.00m	Shoring/Support:	Water Strikes					
	Width 2.00m		Stability:	Date	Time	Strike	Minutes	Standing
	Orientation 315 degrees from north	General Remarks Trench previously dug by Electricity Northwest related to a diversion of an HV cable. Contractors encountered contamination in trench and WSP engineer attended site. PID Reading at 0.8m-1.0mbgl = 0.2ppm PID Reading at 1.0m-1.1mbgl = 0.8ppm						
Scale 1:37.5	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TP101

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Watson	Co-Ordinates (NGR) E 389484.050 N 382850.130	Ground Level (m AOD) 91.270
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
						91.19	0.08	MADE GROUND: ASPHALT.		MG	
0.20-0.30	ES	0					(0.52)	MADE GROUND: Brown sandy cobbly fine and coarse subangular and subrounded GRAVEL with frequent cobbles of limestone.		MG	
0.60-0.70	ES	0				90.67	0.60	MADE GROUND: Brown clayey silty slightly gravelly fine SAND. Gravel is fine angular of brick and carbonaceous material.		MG	
						90.57	0.70				
0.80-0.90	ES	0	89				(0.70)	Stiff reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
0.90-1.00	D										
1.40-1.60	B					89.87	1.40	Reddish brown clayey fine SAND (GLACIAL DEPOSITS).		GDU	
1.60-1.80	D		63			89.67	1.60	Stiff high strength reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DESPOSITS)		GDU	
						89.47	1.80				
							(1.10)	Orange brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
						88.37	2.90	Trial pit complete at 2.9m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support: None	Water Strikes					
	Width	1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north				1.85			
Scale 1:25				Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.					
				General Remarks Trial pit complete at 2.90m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered as seepage at 1.85m bgl. Hole backfilled upon completion.					



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Hole No.
TP102

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
30-06-14
30-06-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Watson	Co-Ordinates (NGR) E 389556.560 N 382881.710	Ground Level (m AOD) 92.220
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.20-0.40	ES	0				92.16	0.06	MADE GROUND: ASPHALT.		MG	
						92.02	0.20	MADE GROUND: Brown sandy cobbly fine to coarse subangular to subrounded GRAVEL of limestone.		MG	
						91.82	0.40	MADE GROUND: Reddish brown fine to coarse GRAVEL and COBBLES of whole and broken brick.		MG	
91.77	0.45	MADE GROUND: Yellow medium and coarse SAND.		MG							
91.65	0.57	MADE GROUND: Dark grey and black sandy fine and medium GRAVEL of ash and clinker.		MG							
0.50-0.60	ES	0				91.42	0.80	MADE GROUND: Soft low strength brown sandy slightly gravelly CLAY. Gravel is fine and medium of brick.		MG	
0.60-0.80	ES	0	28				(0.23)	Soft low strength dark brown very sandy CLAY with root matter. (RELICT TOPSOIL)		SUPD	
0.80-1.00	D						(0.30)				
							31				
							54				
1.60-1.70	D						(1.65)	Firm locally soft greenish grey medium strength sandy slightly gravelly CLAY. Gravel is fine and medium of various lithologies. (GLACIAL DEPOSITS)		GDU	
							50				
							59				
2.20-2.40	D						94	2.00 Becoming stiff high strength clay.			
							111				
						89.47	2.75	Trial pit complete at 2.75m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.75m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TP103

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Watson	Co-Ordinates (NGR) E 389614.850 N 382875.890	Ground Level (m AOD) 90.750
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.30-0.40	ES	170				90.66	0.09	MADE GROUND: ASPHALT.		MG	
						90.50	0.25	MADE GROUND: Light grey re-reinforced CONCRETE with 9mm rebar		CONC	
0.60-0.70	ES	6				(0.30)		MADE GROUND: Brown sandy cobbly fine to coarse GRAVEL of sandstone with a strong hydrocarbon odour.		MG	
						90.20	0.55				
0.80-0.90	ES	0	97			(0.20)		PROBABLE MADE GROUND: Red brown fine SAND with a slight hydrocarbon odour.		MG	
						90.00	0.75				
1.00-1.20	D		90			(0.55)		Stiff light grey mottled orange brown high strength sandy slightly gravelly CLAY with no odour. Gravel is fine angular of various lithologies. (GLACIAL DEPOSITS)		GDU	
						89.45	1.30				
1.30-1.50	D ES		44			(0.20)		Firm medium strength dark reddish grey fissured slightly sandy slightly gravelly CLAY. Gravel is fine angular of various lithologies. (GLACIAL DEPOSITS)		GDU	
						89.25	1.50				
1.60-1.80	D		51			(1.10)		Firm reddish brown medium strength slightly sandy slightly gravelly CLAY. Gravel is fine angular occasionally medium and coarse rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.50-2.60	D		88					2.40 Stiff high strength clay			
						88.15	2.60				
								Trial pit complete at 2.6m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support: None	Water Strikes					
	Width	1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north	General Remarks Trial pit complete at 2.6m bgl. Olfactory evidence of hydrocarbon contamination observed between 0.25 to 0.75m bgl. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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Hole No.
TP104

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Job No
70004430

Client
Harrow Estates Plc

Date
30-06-14
30-06-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389715.840 N 382882.290	Ground Level (m AOD) 91.690
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
						91.59	0.10	MADE GROUND: ASPHALT.		GMG	
						91.49	0.20	MADE GROUND: Light brown sandy angular medium to coarse GRAVEL		GMG	
						91.36	0.33	MADE GROUND: Black ASH.		GMG	
0.35-0.50	ES	0						MADE GROUND: Firm brownish grey slightly gravelly CLAY. Gravel is fine of brick.		GMG	
0.60-0.70	ES	0									
0.70-0.80	D										
						(1.47)					
1.20	D										
1.80-1.90	D					89.89	1.80	MADE GROUND: Stiff brown grey mottled CLAY.		GMG	
						(0.60)					
2.40-2.55	D					89.29	2.40	MADE GROUND: Soft brown slightly silty slightly sandy clay with many rootlets and rare wire rope		GMG	
						89.14	2.55	MADE GROUND: Firm grey slightly sandy CLAY with rare pockets of brown fine sand. (GLACIAL DEPOSITS)		GMG	
2.70-2.80	D						(0.85)			GDU	
3.20-3.30	ES	0				88.29	3.40	Trial pit terminated at 3.4m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.40m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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Hole No.
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Woodford Aerodrome

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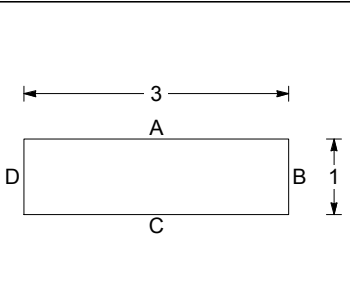
Job No
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Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Watson	Co-Ordinates (NGR) E 389726.240 N 382847.460	Ground Level (m AOD) 91.340
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.20-0.30	ES					91.24	0.10	MADE GROUND: ASPHALT.		TARMAC		
						91.14	0.20	MADE GROUND: Orange brown sandy fine to coarse angular to subangular GRAVEL of limestone.		MG		
						(0.26)		MADE GROUND: Dark grey and black sandy fine and medium GRAVEL of ash and clinker.		MG		
0.50-0.60	ES					90.88	0.46	MADE GROUND: Firm medium strength dark brown sandy slightly gravelly CLAY. Gravel is fine and medium of brick ash clinker vesicular slag				
0.80-0.90	D		43									
			55									
1.50-1.60	D					(2.44)					MG	
								1.80 Wire rope				
2.50-2.60	D											
2.90-3.00	ES					88.44	2.90					
						88.34	3.00	Firm dark brown sandy CLAY with root matter (POSSIBLE RELICT TOPSOIL)		SUPD		
						88.24	3.10	Firm reddish brown sandy slightly gravelly CLAY. Gravel is fine and medium of various lithologies. (GLACIAL DEPOSITS)		GDU		
								Trial pit complete at 3.1m bgl				



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 3.1m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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Hole No.
TP106

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**01-07-14
01-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Watson	Co-Ordinates (NGR) E 389699.550 N 382740.990	Ground Level (m AOD) 90.530
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.60-0.70	ES	0			↓	90.44	0.09	MADE GROUND: ASPHALT.		TARMAC	
						90.30	0.23	MADE GROUND: CONCRETE.		CONC	
						90.23	0.30	MADE GROUND: Light grey sandy medium and coarse subangular GRAVEL.		MG	
0.80-0.90	ES	0	30	64	↓	(0.50)		MADE GROUND: reddish brown sandy cobbly fine to coarse angular GRAVEL of broken and whole brick.		MG	
						89.73	0.80	MADE GROUND: Soft low strength dark grey sandy gravelly CLAY. Gravel is fine and medium of brick and cobbles of sandstone.		MG	
1.50-1.60 1.60-1.70	ES D			50	↓	(1.40)		MADE GROUND: Firm medium strength dark greyish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies.		CMG	
						89.23	1.30				
2.50-2.60	D			75	↓	87.83	2.70				
						87.78	2.75	Firm dark brown amorphous clayey PEAT. (PROBABLE RELICT TOPSOIL)		SUPD	
						87.63	2.90	Firm medium strength brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
						Trial pit complete at 2.9m bgl					

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support: None	Water Strikes						
	Width	1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing	Remarks
	Orientation	degrees from north				0.80				Seepage
Scale 1:25				Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.						
				General Remarks Trial pit complete at 2.9m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 0.8m bgl. Hole backfilled upon completion.						



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TRIAL PIT LOG

Hole No.
TP107

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**01-07-14
01-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Watson	Co-Ordinates (NGR) E 389783.660 N 382741.560	Ground Level (m AOD) 91.180
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.10-0.20	ES	0				91.11	0.07	MADE GROUND: ASPHALT.		TARMAC	
0.30-0.50	ES	150				90.88	0.30	MADE GROUND: Orange brown sandy fine to coarse angular to subangular GRAVEL of sandstone.		MG	
0.60-0.70	ES	0	90			90.68	0.50	MADE GROUND: Black sandy fine and medium angular GRAVEL of ash and clinker with a strong hydrocarbon odour. 0.45 - 0.50 Occasional broken and whole bricks		MG	
0.90-1.00	D							MADE GROUND: Stiff high strength brown slightly sandy slightly gravelly CLAY with frequent cobbles. Gravel is fine to coarse of brick concrete stone with some wire and ceramic tile.		MG	
			70				(1.56)				
			50								
						89.12	2.06	Dark brown slightly clayey SAND with occasional roots (RELICT TOPSOIL)		SUPD	
2.30-2.50 2.40-2.50	ES B	0				88.88	2.30	Orange brown medium SAND. (GLACIAL DEPOSITS)		GDU	
							(1.20)				
						87.68	3.50	Trial pit complete at 3.5m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support: None	Water Strikes					
	Width	1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north	General Remarks Trial pit complete at 3.5m bgl. Olfactory evidence of hydrocarbon contamination observed. at 0.3m to 0.5m bgl. No radiological readings above background recorded. Groundwater encountered at 0.8m bgl. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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TRIAL PIT LOG

Hole No.
TP108

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Job No
70004430

Client
Harrow Estates Plc

Date
29-07-14
29-07-14

Contractor / Driller WSP UK	Method/Plant Used Spade	Logged By J Watson	Co-Ordinates (NGR) E 389829.460 N 382703.790	Ground Level (m AOD) 89.730
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	0				89.53	0.20	MADE GROUND: Brown slightly clayey gravelly fine and medium SAND. Gravel is fine and medium subrounded to subangular of ash and clinker with occasional wire.	MG	MG	
0.30-0.40	ES	0				89.43	0.30	MADE GROUND: Dark greyish brown sandy fine and medium subangular to sub rounded GRAVEL of ash and clinker.	MG	MG	
						89.23	0.50	MADE GROUND: Dark greyish brown slightly gravelly fine and medium SAND. Gravel is fine and medium subangular to subrounded GRAVEL of ash and clinker.	MG	MG	
						89.13	0.60	Light brown slightly clayey fine and medium SAND. (GLACIAL DEPOSITS)	GDU	GDU	
Trial pit complete at 0.6m bgl											

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	0.30m	Shoring/Support: None	Water Strikes					
	Width	0.30m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north	General Remarks Trial pit dug by hand to 0.6m bgl due to proximity to sub-station. No visual or olfactory evidence of contamination observed. No radiological readings above background observed. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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TRIAL PIT LOG

Hole No.
TP109

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389769.450 N 382647.450	Ground Level (m AOD) 90.860
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.00-0.20	ES					90.66	(0.20) 0.20	Brown sandy SILT with rootlets (TOPSOIL)		TS		
						90.06	(0.60) 0.80	Firm brown clayey SILT. (GLACIAL DEPOSITS)		GDU		
0.90 1.00	ES D					89.46	(0.60) 1.40	Firm light brown mottled grey CLAY (GLACIAL DEPOSITS)		GDU		
2.00	D					88.06	(1.40) 2.80	Firm reddish brown mottled light grey, friable, gravelly, CLAY. Gravel is subangular medium and coarse of grey siltstone (GLACIAL DEPOSITS)		GDU		
								Trial Pit terminated at 2.8m bgl				

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ_WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.8m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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Hole No.
TP110

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389787.180 N 382632.080	Ground Level (m AOD) 90.700
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
						90.40	(0.30)	MADE GROUND: Grass over brown slightly sandy SILT (TOPSOIL)		CMG	
						90.20	(0.20) 0.50	MADE GROUND: Brown clayey SILT		CMG	
0.60	ES					90.00	(0.20) 0.70	MADE GROUND: Light brown slightly silty sandy angular fine to coarse GRAVEL of brick		GMG	
0.80	ES						(0.40)	Firm brown mottled grey CLAY (GLACIAL DEPOSITS)		GDU	
0.90	D					89.60	1.10	Firm light brown mottled light grey silty CLAY with occasional grey siltstone partings. (GLACIAL DEPOSITS)		GDU	
1.30	D						(0.90)				
1.50	B					88.70	2.00	Firm brown friable CLAY (GLACIAL DEPOSITS)		GDU	
2.10	D					87.90	2.80	Firm brown friable CLAY (GLACIAL DEPOSITS)		GDU	
								Borehole terminated at 2.8m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	Stability: Stable	General Remarks Trial pit complete at 2.8m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TP111

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
29-07-14
29-07-14

Contractor / Driller WSP UK	Method/Plant Used Spade	Logged By J Watson	Co-Ordinates (NGR) E 389617.040 N 382661.820	Ground Level (m AOD) 90.830
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	0				90.48	0.35	MADE GROUND: Grass over firm brown very sandy slightly gravelly CLAY with common roots. Gravel is fine and medium rounded of various lithologies with occasional plastic.		MG	
0.40-0.50	ES	0				90.23	0.60	MADE GROUND: Light brown slightly clayey sandy fine and medium angular GRAVEL of limestone.		MG	
Trial pit complete at 0.6m bgl											

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 0.30m	Shoring/Support: None	Water Strikes						
	Width 0.30m		Stability: Stable	Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	General Remarks Trial pit dug by hand to 0.6m bgl due to proximity to sub-station. No visual or olfactory evidence of contamination observed. No radiological readings above background observed. Groundwater not encountered. Hole backfilled upon completion.							
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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TRIAL PIT LOG

Hole No.
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Woodford Aerodrome

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Job No
70004430

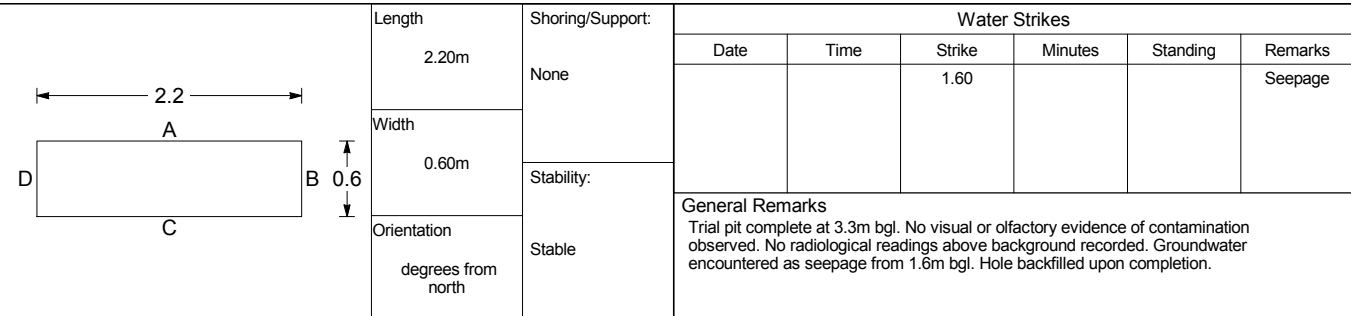
Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Watson	Co-Ordinates (NGR) E 389383.000 N 382566.210	Ground Level (m AOD) 90.530
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.10-0.20	ES	0				90.40	0.13	MADE GROUND: ASPHALT.		TARMAC	
							(0.27)	Light grey brown CONCRETE.		CONC	
0.40-0.60	ES	0				90.13	0.40	MADE GROUND: Black sandy fine and medium GRAVEL of ash and clinker.		MG	
						90.08	0.45	MADE GROUND: Light greyish brown sandy fine to coarse GRAVEL of limestone.		MG	
						89.83	0.70				
						89.78	0.75	MADE GROUND: Black sandy fine and medium angular GRAVEL of ash and clinker.		MG	
0.80-0.90	B		60					MADE GROUND: Soft locally firm medium strength dark brown sandy slightly gravelly CLAY. Gravel is fine to coarse of various lithologies including broken brick.			
0.80-0.90	ES	0									
1.00-1.20	D						(0.85)			MG	
1.60-1.70	ES	0				88.93	1.60	MADE GROUND: Soft brown very sandy gravelly CLAY. Gravel is fine and medium angular of brick coal ceramics and vesicular slag.		MG	
1.70-1.90	B		30					MADE GROUND: Very soft locally soft low strength brown slightly sandy CLAY.		MG	
			20				(0.50)			MG	
			26								
2.20-2.40	D					88.33	2.20	Soft dark brown organic CLAY with abundant plant matter (RELICT TOPSOIL)		TS	
						88.13	(0.20) 2.40				
2.50-2.70	D		26					Soft low strength brown slightly sandy slightly gravelly CLAY. (GLACIAL DEPOSITS)			
			20				(0.90)			GDU	
			32								
						87.23	3.30	Trial pit complete at 3.3m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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TRIAL PIT LOG

Hole No.
TP113

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
01-07-14
01-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Watson	Co-Ordinates (NGR) E 389396.860 N 382499.570	Ground Level (m AOD) 90.150
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.12-0.20	ES					90.03	0.12	MADE GROUND: CONCRETE.		CONC	
							(0.38)	MADE GROUND: Dark greyish brown gravelly SAND with some gravel of ash clinker and occasional slate and brick.		MG	
0.50-0.60	ES		76			89.65	0.50	MADE GROUND: Firm locally soft medium strength reddish brown sandy gravelly CLAY. Gravel is fine and coarse of brick.		MG	
			58				(0.50)				
1.00	D		26			89.15	1.00	PROBABLE MADE GROUND: Very soft low strength grey and brown sandy to very sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies.			
			40				(1.60)			MG	
1.50-1.60	ES										
2.00	D		23								
						87.55	2.60				
						87.45	2.70	Brown slightly clayey SAND with occasional roots (POSSIBLE RELICT TOPSOIL)		SUPD	
Trial Pit terminated at 2.7m bgl											

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes						
	Width 1.00m		Stability: Hole unstable 1.0m to 2.7m bgl	Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	General Remarks Trial pit complete at 2.7m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.							
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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Hole No.
TP114

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S McGeever	Co-Ordinates (NGR) E 389351.075 N 382577.499	Ground Level (m AOD)
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.20	ES						(0.25)	MADE GROUND: Dark brown clayey SAND with rootlets. (TOPSOIL)		GMG	
							0.25	MADE GROUND: Light brown slightly gravelly SAND. Gravel is of glass, brick, ash and various lithologies.			
0.90	ES		150				0.85	MADE GROUND: Very stiff very high strength reddish brown slightly sandy CLAY.		CMG	
							(0.55)				
1.50	D						(0.30)	Soft dark brown CLAY with relict rootlets (POSSIBLE RELICT TOPSOIL).		SUPD	
							1.70				
2.00	D		65				(1.30)	Firm medium strength reddish brown mottled light grey slightly gravelly slightly sandy CLAY. Gravel is fine and medium angular to rounded of various lithologies (GLACIAL DEPOSITS).		GDU	
								2.20 m bgl; low strength			
			34					2.80 m bgl; high strength			
			80								
			105								
							3.00	Trial pit complete at 3.0m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	2.70m	Shoring/Support: None	Water Strikes					
	Width	1.40m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north	General Remarks Trial Pit complete at 3.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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Hole No.
TP115

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**01-07-14
01-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Watson	Co-Ordinates (NGR) E 389370.230 N 382606.760	Ground Level (m AOD) 90.710
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.35-0.50	ES					90.59	0.12	MADE GROUND: ASPHALT.		TARMAC	
						90.45	0.26	MADE GROUND: CONCRETE with 8mm diameter rebar		CONC	
						90.36	0.35	MADE GROUND: Brown sandy fine to coarse angular to subangular GRAVEL.		MG	
						90.21	0.50	MADE GROUND: Dark greyish brown and black sandy fine and medium GRAVEL of ash and clinker.		MG	
						(1.00)		MADE GROUND: Brown SAND and fine to coarse GRAVEL with some COBBLES of brick, sandstone, occasional tile and metal.		MG	
0.50-0.60	ES										
0.60-0.80	B										
1.80	ES		68			89.21	1.50	Firm medium strength reddish brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
						(1.10)					
						88.11	2.60	Brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
						87.91	2.80	Trial Pit terminated at 2.8m bgl		GDU	

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.8m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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Hole No.
TP116

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**03-07-14
03-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S McGeever	Co-Ordinates (NGR) E 389290.000 N 382664.440	Ground Level (m AOD) 90.780
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
						90.71	0.07	MADE GROUND: ASPHALT.		TARMAC	
						(0.43)		MADE GROUND: Light orangish brown sandy fine to coarse GRAVEL of predominantly sandstone.		GMG	
0.70	ES		70 86			90.28	0.50	Stiff, medium to high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to well rounded of various lithologies (GLACIAL DEPOSITS).		GDU	
1.50	D		70			89.58	1.20	Light brownish mottled light grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to well rounded of various lithologies (GLACIAL DEPOSITS).		GDU	
						88.78	2.00	Trial pit complete at 2m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 2.80m	Shoring/Support: None	Water Strikes					
	Width 1.20m		Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	Stability: Stable	General Remarks Trial Pit complete at 2.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TP117

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**08-07-14
08-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389439.570 N 382429.610	Ground Level (m AOD) 88.300
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.20	ES					88.25	0.05	MADE GROUND: ASPHALT		TARMAC	
0.30	ES					88.15	0.15	MADE GROUND: Light brown sandy angular fine to coarse limestone gravel POSSIBLE MADE GROUND: Firm brown slightly gravelly slightly sandy CLAY. Gravel is angular coarse of various lithologies.		GMG	
							(1.35)			CMG	
						86.80	1.50	Soft brown CLAY (GLACIAL DEPOSITS)		GDU	
							(0.90)				
						85.90	2.40	Firm brown slightly gravelly CLAY. Gravel is subrounded medium and coarse (GLACIAL DEPOSITS)		GDU	
							(0.20)				
						85.70	2.60	Borehole terminated at 2.6m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.6m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						

Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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TRIAL PIT LOG

Hole No.
TP118

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S McGeever	Co-Ordinates (NGR) E 389693.660 N 382584.990	Ground Level (m AOD) 90.880
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.00-0.20	ES					90.68	(0.20)	MADE GROUND: Brown cobbly gravelly SAND. Gravel is fine to coarse of shale and brick. (TOPSOIL)		GMG	
						90.38	(0.30)	MADE GROUND: Black ashy sandy fine to coarse angular to subrounded GRAVEL of various lithologies.		GMG	
						90.28	(0.60)	MADE GROUND: Reddish brown sandy gravelly subrounded COBBLES of predominantly brick.		GMG	
						89.78	(0.50)	MADE GROUND: Orangish brown SAND with frequent cobbles and boulders of predominatly concrete.		GMG	
1.20-1.30	ES		112				(0.40)	Firm high strength reddish brown mottled light grey slightly sandy, slightly gravelly CLAY. Gravel is fine and medium subrounded to well rounded of various lithologies (GLACIAL DEPOSITS).		GDU	
1.40	D		118			89.38	1.50	Pinkish light brown gravelly SAND. Gravel is fine and medium subangular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00-2.10	B		120				(1.10)				
						88.28	2.60	Trial pit complete at 2.6m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ - WSPTEMPLATE1.03.GDT 11/12/14

	Length 4.00m	Shoring/Support: None	Water Strikes						
	Width 1.20m		Stability: Stable	Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	General Remarks Trial Pit complete at 2.6m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.							
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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TRIAL PIT LOG

Hole No.
TP119

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S McGeever	Co-Ordinates (NGR) E 389744.100 N 382555.140	Ground Level (m AOD) 90.270
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES	0				89.97	0.30	MADE GROUND: Reddish brown slightly clayey slightly cobbly gravelly SAND. Gravel is fine to coarse very angular to rounded of various lithologies. (TOPSOIL)		GMG	
0.50		0				89.57	0.70	MADE GROUND: Greyish brown relict surfacing recovered as bouldery cobbly gravel of mudstone.		GMG	
1.50	ES	0					1.20	Reddish brown medium SAND. (GLACIAL DEPOSITS)		GDU	
2.00-2.10	B					88.37	1.90	Reddish brown SAND and GRAVEL. Gravel is fine to coarse subrounded to very rounded of various of lithologies (GLACIAL DEPOSITS)		GDU	
						87.27	3.00	Trial pit complete at 3m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.50m	Shoring/Support: None	Water Strikes						
	Width 1.50m		Stability: Stable	Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	General Remarks Trial Pit complete at 3.0m bgl. No visual or olfactory evidence of contamination observed. Possible former surface related to proposed compass swing encountered at 0.30m bgl. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.							
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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TRIAL PIT LOG

Hole No.
TP120

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
07-07-14
07-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389836.660 N 382585.530	Ground Level (m AOD) 89.070
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES					88.77	0.30	TOPSOIL: Brown slightly sandy CLAY with rootlets.		TS	
0.40	ES					88.57	0.50	Brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
						88.37	0.70	Firm orangish brown sandy CLAY. (GLACIAL DEPOSITS)		GDU	
1.20	D ES						1.00	Firm reddish brown mottled grey slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
1.70-2.50	B					87.37	1.70	Orange brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
							1.20	2.20 m bgl; damp			
						86.17	2.90	Trial Pit terminated at 2.9m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.9m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TP121

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Woodford Aerodrome

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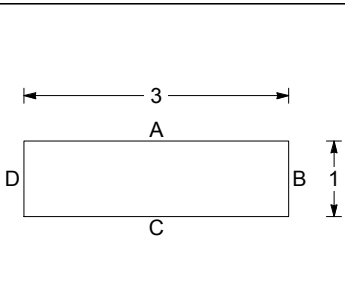
Job No
70004430

Client
Harrow Estates Plc

Date
**07-07-14
07-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389452.550 N 382355.330	Ground Level (m AOD) 87.150
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.20	ES					86.85	0.30	MADE GROUND: Grass over brown very silty fine SAND with rootlets (TOPSOIL)		GMG	
0.60	ES					86.40	0.75	MADE GROUND: Firm brown slightly gravelly CLAY		GMG	
1.00 1.10	D ES							MADE GROUND: Firm grey, mottled brown CLAY, with sandy pockets		GMG	
1.50	D						(1.45)			GMG	
						84.95	2.20	Soft grey sandy CLAY (GLACIAL DEPOSIT) Firm grey CLAY (GLACIAL DEPOSIT)		GDU	
2.50	D					84.93	2.22				
						83.85	3.30	Trial Pit terminated at 3.3m bgl			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 3.30m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



WSP
150-182 The Quays
M50 3SP
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TRIAL PIT LOG

Hole No.
TP122

Project
Woodford Aerodrome

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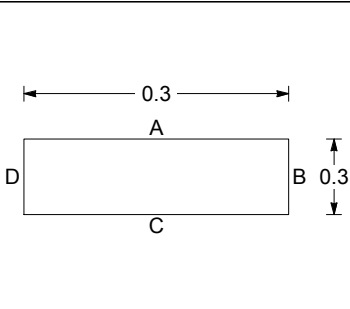
Job No
70004430

Client
Harrow Estates Plc

Date
29-07-14
29-07-14

Contractor / Driller WSP UK	Method/Plant Used Spade	Logged By J Watson	Co-Ordinates (NGR) E 389417.940 N 382294.510	Ground Level (m AOD) 87.540
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10-0.20	ES	0					(0.50)	MADE GROUND: Grass over brown slightly clayey slightly gravelly SAND. Gravel is fine to coarse of limestone, ash, clinker and brick.		MG		
0.40-0.50	ES					87.04	0.50					
Trial pit complete at 0.5m bgl												



Length
0.30m

Width
0.30m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit dug by hand to 0.5m bgl due to proximity to sub-station. No visual or olfactory evidence of contamination observed. No radiological readings above background observed. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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TRIAL PIT LOG

Hole No.
TP123

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Woodford Aerodrome

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1 of 1

Job No
70004430

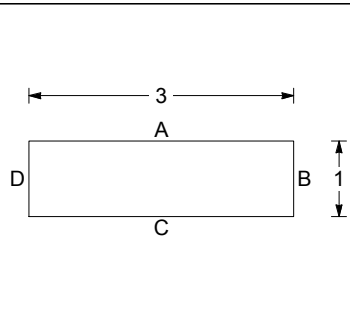
Client
Harrow Estates Plc

Date
07-07-14
07-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389440.640 N 381553.760	Ground Level (m AOD) 88.720
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30-0.50	ES					88.52	(0.20) 0.20	MADE GROUND: Grass over brown very silty fine SAND with rootlets (TOPSOIL)	[Cross-hatch pattern]	GMG	[Circular pattern]
							(0.60)	MADE GROUND: Brown silty fine SAND			
0.80-1.20 0.80-1.20	B ES					87.92	0.80	Orange brown silty fine and medium SAND (GLACIAL DEPOSITS)	[X pattern]	GDU	[Circular pattern]
							(1.50)				
						86.42	2.30	Trial Pit terminated at 2.3m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 2.3m bgl. No visual or olfactory evidence of significant contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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TRIAL PIT LOG

Hole No.
TP124

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
07-07-14
07-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389479.730 N 381526.140	Ground Level (m AOD) 87.630
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20-0.40	ES					87.43	(0.20) 0.20	Grass over brown very silty fine SAND with rootlets (TOPSOIL)		TS	
							(0.40) 0.60	Brown slightly clay slightly silty fine SAND (GLACIAL DEPOSITS)		GDU	
0.60-1.00	ES					87.03	(0.40) 0.60	Light grey silty fine SAND (GLACIAL DEPOSITS)		GDU	
							(1.00) 2.00	Orange brown silty fine SAND (GLACIAL DEPOSITS)		GDU	
1.00-2.00	B					85.63	2.00	Borehole terminated at 2m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TP125

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**07-07-14
07-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389566.880 N 381445.690	Ground Level (m AOD) 86.570
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.30	ES					86.12	0.45	MADE GROUND: Light brown sandy angular fine and medium GRAVEL		GMG	
0.45-0.90 0.50-0.80	D ES					85.67	0.90	Brown slightly silty fine SAND (GLACIAL DEPOSITS)		GDU	
1.00-2.00 1.00-2.00 1.00-1.20	B D ES					84.37	2.20	Orange brown very silty fine SAND (GLACIAL DEPOSITS)		GDU	
2.30-2.50	D					83.37	3.20	Pinkish brown slightly silty fine SAND. Damp. (GLACIAL DEPOSITS)		GDU	

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.2m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						

Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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TRIAL PIT LOG

Hole No.
TP126

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**07-07-14
07-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389775.320 N 381281.850	Ground Level (m AOD) 82.150
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.80	ES					82.05	0.10	MADE GROUND: ASPHALT		TARMAC	
							(0.70)	MADE GROUND: boulders and cobbles of brown sandstone with ash and rare brick fragments.		GMG	
0.80-1.30	ES					81.35	0.80	MADE GROUND: Firm light grey sandy CLAY		CMG	
1.00-1.20	D						(0.90)				
1.70-2.20	D					80.45	1.70	Firm brown CLAY with fine rootlets (GLACIAL DEPOSITS)		GDU	
2.20-2.50	D					79.95	2.20	Firm grey slightly friable CLAY (GLACIAL DEPOSITS)		GDU	
3.20-3.50	B					78.95	3.20	Grey sandy GRAVEL. Gravel is subrounded to rounded fine to coarse sandstone (GLACIAL DEPOSITS)		GDU	
							(0.30)				
						78.65	3.50	Trial Pit terminated at 3.5m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.5m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TP127

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**08-07-14
08-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389813.920 N 381275.740	Ground Level (m AOD) 82.320
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES					82.17	0.15	MADE GROUND: Brown sandy slightly gravelly SILT with rootlets. Gravel is angular fine to medium concrete and rare brick		CMG	
0.20	D					82.02	0.30	MADE GROUND: Light grey sandy angular fine to coarse gravel of limestone		GMG	
0.30	ES										
0.40	ES										
							(0.50)				
						81.52	0.80	MADE GROUND: Dark bluish grey dark grey stained angular to sub angular fine to medium GRAVEL with rare angular coarse brick. Hydrocarbon odour.		GMG	
0.90	ES										
1.20	D										
							(1.40)				
1.60	D										
2.00	D										
2.20	ES					80.12	2.20	MADE GROUND: Brown stained dark grey silty fine SAND with hydrocarbon odour		GMG	
								Trial pit complete at at 2.2m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support:			Water Strikes					
	Width	1.00m	None			Date	Time	Strike	Minutes	Standing	Remarks
	Orientation	degrees from north	Stability:			General Remarks Trial pit complete at 2.20m bgl. Hydrocarbon odour encountered at 0.80m bgl. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
			Stable								
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.										



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TRIAL PIT LOG

Hole No.
TP128

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**08-07-14
08-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389888.470 N 381429.400	Ground Level (m AOD) 82.340
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.40-0.50	ES					81.96	0.38	MADE GROUND: Reinforced CONCRETE		CONC	
						81.74	0.60	MADE GROUND: Light brown sandy angular fine to coarse GRAVEL of sandstone.		GMG	
0.70	ES							Firm red brown mottled grey slightly silty CLAY. Rare sub rounded medium to coarse gravel of quartzite. (GLACIAL DEPOSITS)		GDU	
1.00	D										
1.80-2.00	D							Firm brown, grey mottled friable gravelly, CLAY. (GLACIAL DEPOSITS)		GDU	
2.40-2.60 2.40-2.60	B ES					79.94 79.74	2.40 2.60	Red brown silty fine SAND (GLACIAL DEPOSIT)		GDU	
Trial Pit terminated at 2.6m bgl											

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support: None	Water Strikes					
	Width	1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north				2.40			
<p>Scale 1:25</p> <p>Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.</p>				<p>General Remarks</p> <p>Trial pit complete at 2.60m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. groundwater encountered at 2.40m bgl. Hole backfilled upon completion.</p>					



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TRIAL PIT LOG

Hole No.
TP129

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**08-07-14
08-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389792.340 N 381532.860	Ground Level (m AOD) 82.980
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.30-0.40	ES					82.91	0.07	MADE GROUND: ASPHALT		TARMAC	
							(0.23)	MADE GROUND: Reinforced CONCRETE		CONC	
						82.68	0.30	MADE GROUND: Dark grey gravelly ash and fine to medium gravel of burnt coal		GMG	
0.60-1.00 0.60-0.80	B ES					82.38	0.60				
						82.28	0.70	Soft light grey brown sandy CLAY (GLACIAL DEPOSITS)		GDU	
1.20 1.20	D ES						(0.40)	Light brown grey silty fine SAND (GLACIAL DEPOSITS)		GDU	
							(1.10)	Firm reddish brown mottled grey slightly sandy CLAY (GLACIAL DEPOSITS)		GDU	
						81.88	1.10				
2.00	D						(0.50)	Firm reddish brown, grey mottled, slightly gravelly sandy CLAY (GLACIAL DEPOSITS)		GDU	
						80.78	2.20				
						80.28	2.70	Trial Pit terminated at 2.7m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.7m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TP130

Project
Woodford Aerodrome

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Job No
70004430

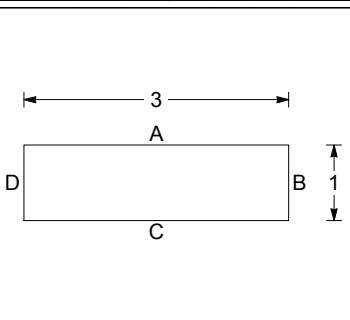
Client
Harrow Estates Plc

Date
08-07-14
08-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389800.610 N 381472.430	Ground Level (m AOD) 82.300
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.40-0.50	ES					81.97	0.33	MADE GROUND: Reinforced CONCRETE		CONC		
1.00-1.20	ES					80.65	1.65	MADE GROUND: Light brown sandy angular fine to coarse GRAVEL of sandstone, with rare sandstone cobbles. Rare angular brick fragments.		GMG		
1.80-1.80	D ES						(1.32)	Firm brown slightly sandy, slightly gravelly CLAY with rare thin sandy partings. Gravel is subrounded medium to coarse (GLACIAL DEPOSITS)		GDU		
2.60	D					79.30	3.00					
Trial Pit terminated at 3m bgl												

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 3m bgl. No visual or olfactory evidence of significant contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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TRIAL PIT LOG

Hole No.
TP131

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Woodford Aerodrome

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Job No
70004430

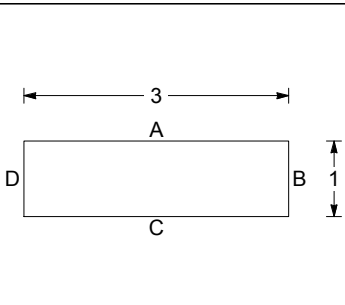
Client
Harrow Estates Plc

Date
04-07-14
04-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389683.130 N 381571.830	Ground Level (m AOD) 86.730
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0				86.53	(0.20) 0.20	Grass over dark brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse angular to subrounded of various lithologies (TOPSOIL).		TS	
0.40	ES	1				86.33	(0.20) 0.40	Brown slightly silty slightly gravelly SAND. Gravel is fine to coarse angular to subrounded of various lithologies. (GLACIAL DEPOSITS).		GDU	
			90			86.03	(0.30) 0.70	Orange brown slightly silty slightly gravelly medium SAND. Gravel is fine to coarse subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
0.80	D					85.73	(0.30) 1.00	Stiff high strength reddish brown slightly gravelly sandy friable CLAY. Gravel is medium occasionally fine rounded. (GLACIAL DEPOSITS)		GDU	
							(1.80)	Orange brown fine and medium SAND. (GLACIAL DEPOSIT)		GDU	
2.50	B					83.93	2.80	2.50 m bgl; becoming slightly clayey.			
								Trial pit complete at 2.80m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 2.8m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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TRIAL PIT LOG

Hole No.
TP132

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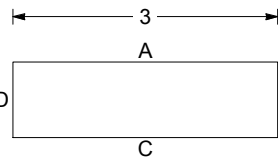
Job No
70004430

Client
Harrow Estates Plc

Date
**04-07-14
04-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389663.330 N 381487.490	Ground Level (m AOD) 85.430
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PIV (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
						85.38	0.05	ASPHALT		TARMAC	
						85.23	0.20	CONCRETE (reinforced with 5mm rebar)		CONC	
0.30	ES					(0.30)		MADE GROUND: Grey occasionally brown and pale grey sandy angular to subrounded GRAVEL of clinker and various lithologies with frequent angular cobbles of yellow sandstone.		GMG	
0.60	ES					(1.50)		Light brown slightly gravelly fine SAND. Gravel is medium and coarse subrounded and subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.00	B										
2.00	D		60			83.43	2.00	Firm reddish brown mottled grey sandy friable CLAY. (GLACIAL DEPOSITS)		GDU	
						82.93	2.50	Reddish brown clayey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
3.00	B					82.43	3.00	Trial Pit complete at 3.00m bgl			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		2.50			

General Remarks
Trial pit complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Slight seepage of groundwater encountered at 2.50m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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TRIAL PIT LOG

Hole No.
TP133

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
04-07-14
04-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389584.120 N 381570.540	Ground Level (m AOD) 87.680
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES	0			↓	87.18	0.50	MADE GROUND: Long grass over dark brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse angular to rounded of various lithologies (TOPSOIL).	X	GMG	
0.60	ES	0		87.08		0.60	MADE GROUND: Yellowish grey and black fine and medium angular GRAVEL of ash and clinker with occasional subangular cobbles of sandstone. Orange brown occasionally pale grey fine and medium SAND. (GLACIAL DEPOSITS).	X	GMG		
1.00	B					(1.20)			.	GDU	
						85.88	1.80	Trial pit terminated at 1.80m bgl due to instability			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support: None	Water Strikes						
	Width	1.00m		Stability:	Date	Time	Strike	Minutes	Standing	Remarks
	Orientation	degrees from north	1.00m bgl; Trial pit collapse.	General Remarks Trial pit abandoned at 1.80 bg due to instability. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Seepage of groundwater encountered at 1.50m bgl. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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Job No
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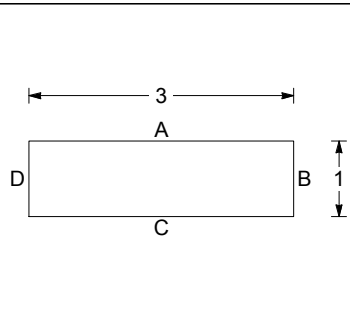
Client
Harrow Estates Plc

Date
04-07-14
04-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389414.930 N 381650.410	Ground Level (m AOD) 89.250
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES					88.75	(0.50)	Grass over dark brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse of sandstone and various lithologies (TOPSOIL).		TS	
0.60	ES					88.45	(0.30)	Brown slightly gravelly fine and medium SAND. Gravel is coarse rounded of sandstone. (GLACIAL DEPOSITS).		GDU	
1.00	D		65				(1.70)	Firm medium strength reddish brown mottled grey slightly gravelly sandy friable CLAY with rare cobbles. Gravel is fine to coarse subangular to rounded of coal and sandstone. (GLACIAL DEPOSITS) 1.00 m bgl; gravel becoming fine and medium.		GDU	
2.00	D					86.75	2.50	Trial pit complete at 2.50m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ - WSPTEMPLATE1.03.GDT 11/12/14



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 2.5m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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Job No
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Client
Harrow Estates Plc

Date
04-07-14
04-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389362.220 N 381687.050	Ground Level (m AOD) 88.990
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.20	ES					88.74	0.25	Grass over brown slightly sandy SILT with rootlets (TOPSOIL)		TS	
0.60	D ES B					88.34	0.65	Brown slightly silty fine SAND (GLACIAL DEPOSITS)		GDU	
0.60						87.99	1.00	Grey fine SAND (GLACIAL DEPOSITS)		GDU	
0.70-1.20						87.59	1.40	Brown fine and medium SAND (GLACIAL DEPOSITS)		GDU	
1.60	D					87.29	1.70	Firm red brown slightly gravelly CLAY with some light grey mottling. Gravel is rounded fine and medium sandstone (GLACIAL DEPOSITS)		GDU	
2.50	D					86.49	2.50	Firm brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
								Trial Pit terminated at 2.5m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.50m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						

Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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Job No
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Client
Harrow Estates Plc

Date
04-07-14
04-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389374.730 N 381830.890	Ground Level (m AOD) 86.810
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.20-0.90	B					86.61	(0.20) 0.20	MADE GROUND: Grass over brown slightly silty slightly gravelly fine SAND. (TOPSOIL)		MG	
0.40-0.50	ES					86.21	(0.40) 0.60	MADE GROUND: Brown fine sand with rare brick fragements		MG	
						85.91	(0.30) 0.90	POSSIBLE MADE GROUND: Brown fine SAND		MG	
1.20	D					85.31	(0.60) 1.50	Firm grey CLAY with sandy pockets (GLACIAL DEPOSITS)		GDU	
1.50-2.00	B					84.21	(1.10) 2.60	Light brown fine and medium SAND with rare cobbles. (GLACIAL DEPOSITS)		GDU	
						83.81	(0.40) 3.00	Grey fine to medium SAND with rare gravel and sand sized coal in patches. (GLACIAL DEPOSITS)		GDU	
								Trial pit complete at 3m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length m	Shoring/Support:	Water Strikes					
	Width m		Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	Stability: Unstable from 0.6m bgl	General Remarks Trial pit complete at 3.0m bgl. Slight hydrocarbon odour in Made Ground. No radiological readings above background recorded. No Groundwater encountered. Hole backfilled upon completion.					
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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Job No
70004430

Client
Harrow Estates Plc

Date
**04-07-14
04-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389109.300 N 381867.880	Ground Level (m AOD) 86.660
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES					86.46	(0.20) 0.20	MADE GROUND: Long grass over dark brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse angular to subrounded of various lithologies. (TOPSOIL).		GMG	
0.40	ES					86.16	(0.30) 0.50	MADE GROUND: Grey mottled black sandy coarse angular and subangular GRAVEL of ash and various lithologies.		GMG	
0.60	ES						(0.90)	MADE GROUND: Orange brown fine to coarse SAND. 1.00 m bgl; 75mm diameter land drain. 1.20 m bgl; becoming clayey		GMG	
1.50	D					85.26	(1.40)				
1.80	B					84.86	(1.80)	Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of various lithologies. (GLACIAL DEPOSITS).		GDU	
1.80	ES						(1.20)	Reddish brown gravelly fine to coarse SAND with occasional rounded cobbles. Gravel is fine to coarse rounded. (GLACIAL DEPOSITS)		GDU	
						83.66	3.00	Trial pit complete at 3.00m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length m	Shoring/Support: None	Water Strikes					
	Width m		Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	Stability: Unstable from 2.7m bgl	General Remarks Trial pit complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No groundwater encountered. Hole backfilled upon completion.					
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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Job No
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Client
Harrow Estates Plc

Date
**05-08-14
05-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389541.100 N 381862.970	Ground Level (m AOD) 85.450
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES					85.25	0.20	MADE GROUND: Crops over brown gravelly fine SAND with rootlets. Gravel is fine to coarse subangular to subrounded of various lithologies. (TOPSOIL)		GMG	
							0.20				
							(0.40)	MADE GROUND: Yellow brown sandy medium and coarse angular GRAVEL with occasional cobbles of angular sandstone.		GMG	
0.60	D ES					84.85	0.60	Dark brown and black pseudofibrous to amorphous PEAT. (SUPERFICIAL DEPOSITS)		PEAT	
0.60							(2.00)				
						82.85	2.60				
							(0.30)	Soft light greyish blue sandy CLAY with occasional organic matter. (SUPERFICIAL DEPOSITS)		SUPD	
						82.55	2.90	2.60 m bgl; 2mm diameter inclusions of wood			
2.90	B							Trial pit abandoned at 2.90m bgl due to instability.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Unstable from 2.60m bgl	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.90m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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Job No
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Client
Harrow Estates Plc

Date
**05-08-14
05-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389559.200 N 382057.710	Ground Level (m AOD) 86.150
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES					85.95	(0.20)	MADE GROUND: Brown and black slightly gravelly ashy fine and medium SAND with rootlets. Gravel is fine to coarse angular of various.		GMG	
0.30	ES					85.65	(0.30)	MADE GROUND: Light brown sandy fine to coarse angular to subrounded GRAVEL of ash clinker and brick with frequent cobbles of yellow angular sandstone.		GMG	
1.00	D		62			84.95	(0.70)	Firm medium strength orange brown and light grey slightly sandy slightly gravelly CLAY. (GLACIAL DEPOSITS)		GDU	
							(1.20)	Firm medium strength reddish brown slightly gravelly CLAY. Gravel is angular to subrounded of sandstone and coal. (GLACIAL DEPOSITS)		GDU	
2.50	B		61			83.75	(0.60)	Brown slightly silty fine SAND. (GLACIAL DEPOSITS)		GDU	
						83.15	3.00	Trial pit complete at 3.00m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Unstable from 2.40m bgl	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north				2.40			
Scale 1:25			General Remarks Trial pit complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered as a slight seepage at 2.40m bgl. Hole backfilled upon completion.					
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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Job No
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Client
Harrow Estates Plc

Date
**03-07-14
03-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389834.290 N 382075.850	Ground Level (m AOD) 85.220
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30-0.40	ES					84.92	0.30	Hay over brown slightly clayey slightly sandy SILT (TOPSOIL)		TS	
						84.82	0.40	Orange brown fine and medium SAND (GLACIAL DEPOSITS)		ALV	
0.60-0.70 0.70-0.90	ES B					84.62	0.60	Firm grey sandy CLAY (GLACIAL DEPOSITS)		ALV	
						84.22	1.00	Grey gravelly fine to medium SAND with occasional lenses of clay. Gravel is subrounded medium to coarse grey sandstone. (GLACIAL DEPOSITS)		ALV	
1.10	D					83.62	1.60	Firm brown mottled grey sandy CLAY (GLACIAL DEPOSITS)		ALV	
						83.27	1.95	Firm grey, slightly mottled brown CLAY (GLACIAL DEPOSITS)		ALV	
1.90 2.00	D B					82.52	2.70	Grey slightly clayey SILT, with clay pockets and rare pieces of wood becoming clayey with depth (GLACIAL DEPOSITS)		ALV	
						81.72	3.50	Stiff grey CLAY (GLACIAL DEPOSITS)		ALV	
2.80	D										
3.50	D							Trial Pit terminated at 3.5m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support: None	Water Strikes					
	Width	1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north	General Remarks Trial pit complete at 3.5m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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Job No
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Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389737.510 N 381965.820	Ground Level (m AOD) 85.200
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50-0.80	D ES					84.90	0.30	Hay over brown slightly clayey slightly sandy SILT (TOPSOIL)		TS	
0.50-0.80						84.70	0.50	Brown silty fine SAND (GLACIAL DEPOSITS)		ALV	
							84.30	0.90	Light brown fine and medium SAND (GLACIAL DEPOSITS)		
1.00-1.50	B D					83.70	1.50	Light grey fine SAND becoming silty fine sand with depth (GLACIAL DEPOSITS)		ALV	
1.00							83.20	2.00	Stiff light purplish brown CLAY (GLACIAL DEPOSITS)		
2.20	D						(1.70)	Very soft brown silty CLAY. Damp, becoming silt with depth (GLACIAL DEPOSITS)		ALV	
3.20						81.50	3.70				
								Trial Pit terminated at 3.7m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.7m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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Job No
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Client
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Date
**30-07-14
30-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389821.090 N 382644.140	Ground Level (m AOD) 89.660
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	0				89.26	0.40	MADE GROUND: Grass over dark brown slightly clayey gravelly SAND. Gravel is fine to coarse subangular of sandstone with rare ash and clinker. (TOPSOIL)		GMG	
0.50-1.00 0.50-0.60	B D ES	0	50	42			(0.70)	MADE GROUND: Firm medium strength orange brown mottled grey slightly sandy slightly gravelly CLAY with occasional pockets of ash. Gravel is fine to medium rounded of various lithologies and fine of clinker.		CMG	
1.00	D		52			88.56	1.10	Stiff medium to high strength dark reddish brown mottled grey CLAY. Gravel is fine to coarse of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.30	D		62				(1.40)				
2.40 2.50-2.60	D ES		70			87.16	2.50	Orange brown slightly clayey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
3.80-4.00	ES					85.66	4.00				

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ - WSPTEMPLATE1.03.GDT 11/12/14

	Length	2.60m	Shoring/Support: None	Water Strikes					
	Width	0.60m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north	General Remarks Trial pit complete at 4.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No Groundwater encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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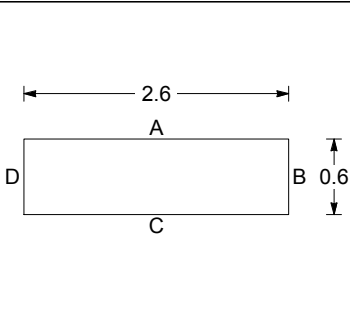
Job No
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Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389821.090 N 382644.140	Ground Level (m AOD) 89.660
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
								Trial pit complete at 4.0m bgl				



Length 2.60m	Shoring/Support: None
Width 0.60m	
Orientation degrees from north	Stability: Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 4.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No Groundwater encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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TRIAL PIT LOG

Hole No.
TP143

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389805.250 N 381757.340	Ground Level (m AOD) 85.770
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	0					(0.50)	MADE GROUND: Brown slightly clayey slightly gravelly SAND. Gravel is fine and medium angular of various lithologies with rare brick.		GMG	
0.50-0.60	ES	0	90			85.27	0.50	Stiff high strength brown mottled light grey sandy slightly gravelly CLAY. Gravel is fine and medium rounded to subrounded of various lithologies with occasional pockets of grey fine and medium clayey fine and medium sand. (GLACIAL DEPOSITS)		GDU	
1.00	D		100				(1.10)				
2.00	D		30			84.17	1.60				
							(0.60)	Soft locally firm low strength reddish brown slightly gravelly CLAY. Gravel is fine and medium rounded and subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
						83.57	2.20	Trial pit complete at 2.2m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 2.80m	Shoring/Support: None	Water Strikes					
	Width 0.60m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.2m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No Groundwater encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389676.710 N 381769.740	Ground Level (m AOD) 85.380
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.00-0.40	ES						(0.40)	Hay over dark brown silty fine SAND with rootlets (TOPSOIL)		TS	
0.40-0.60	ES					84.98	0.40	Light brown fine and medium SAND with occasional thin (<10mm) peat partings (GLACIAL DEPOSIT)		ALV	
0.90-1.50	B						(1.00)	Light brownish grey fine and medium SAND (GLACIAL DEPOSITS)		GDU	
						83.78	1.60				
							(0.40)	Light orange brown fine gravelly, SAND. Gravel is rounded fine and medium gravel of sandstone (GLACIAL DEPOSIT)		GDU	
						83.38	2.00				
								Trial Pit terminated at 2m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389657.890 N 382547.240	Ground Level (m AOD) 90.510
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	0				90.26	0.25	Grass over dark brown slightly clayey slightly gravelly SAND. Gravel is fine and medium subangular of various lithologies (TOPSOIL)		TS	
0.30-0.40	ES	0						Stiff high strength dark orange brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded and subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
0.50	D		70				(0.75)				
			96								
1.00-1.50	B					89.51	1.00	Orange brown medium SAND. (GLACIAL DEPOSITS)		GDU	
							(1.50)				
						88.01	2.50				
								Trial pit complete at 2.5m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 2.80m	Shoring/Support: None	Water Strikes					
	Width 0.60m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.5m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No Groundwater encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389722.540 N 381871.350	Ground Level (m AOD) 85.870
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.40	ES					85.52	0.35	Hay over brown slightly clayey slightly sandy SILT with rootlets (TOPSOIL)		TS		
0.50-1.00	B						(1.00)	Firm grey locally sandy CLAY (GLACIAL DEPOSITS)		GDU		
1.40	ES					84.52	1.35	Firm brown grey mottled sandy CLAY (GLACIAL DEPOSITS)		GDU		
1.50	D					84.27	1.60	Soft brown CLAY (GLACIAL DEPOSITS)		GDU		
1.70	D					83.87	2.00	Soft brown CLAY (GLACIAL DEPOSITS)		GDU		
								Trial Pit terminated at 2m bgl				

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
04-08-14
04-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389980.200 N 382459.600	Ground Level (m AOD) 87.020
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES					86.62	0.40	MADE GROUND: Grass over brown slightly gravelly fine and medium SAND with rootlets. (TOPSOIL).		GMG	
0.80	ES					86.22	0.80	MADE GROUND: Brown slightly clayey slightly gravelly SAND of brick ceramic and sandstone 0.60 m bgl; 200mm diameter concrete boulder		GMG	
1.50	B					85.82	1.20	Brown orange slightly gravelly fine and medium SAND. Gravel is fine to coarse subangular to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
						83.82	3.20	Grey becoming brown clayey fine SAND. (GLACIAL DEPOSITS)		GDU	
								Trial pit complete at 3.20m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

Length: 3.00m

Width: 1.00m

Orientation: degrees from north

Shoring/Support: None

Stability: Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 3.20m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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Hole No.
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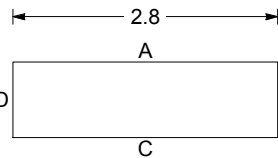
Job No
70004430

Client
Harrow Estates Plc

Date
**31-07-14
31-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389803.270 N 382658.590	Ground Level (m AOD) 89.970
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	0				89.67	(0.30) 0.30	MADE GROUND: Grass over dark brown slightly clayey gravelly SAND. Gravel is fine and medium subangular of sandstone with rare ceramics ash and clinker.		GMG	
0.40-0.50	ES	0	42					PROBABLE MADE GROUND: Firm medium strength light orange brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded of various lithologies.		CMG	
0.50	D		40				(1.20)				
1.20	D		52								
			42		1	88.47	1.50	Firm dark redish brown mottled grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
						88.27	(0.20) 1.70				
						88.17	1.80	Brown clayey slightly gravelly medium and coarse SAND. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	D		110					Stiff high strength reddish brown slightly sandy slightly gravelly CLAY with occasional pockets (10cm) of medium and coarse sand. Gravel is fine and medium rounded of various lithologies(GLACIAL DEPOSITS).		GDU	
			120		2		(1.10)				
2.80	D					87.07	2.90				
2.90-3.00	ES						(0.50)	Orange brown slightly clayey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
						86.57	3.40				
								Trial pit complete at 3.8m bgl			



Length
2.80m

Width
0.60m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		1.50			Seepage
		2.40			Seepage

General Remarks
Trial pit complete at 3.8m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered as seepage at 1.5m bgl and 2.4m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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Hole No.
TP149

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**04-08-14
04-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389804.620 N 381887.470	Ground Level (m AOD) 85.770
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10	ES	0					(0.50)	Grass over dark brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse rounded to subangular of various lithologies (TOPSOIL)		TS		
0.50	ES	0	86			85.27	0.50	Stiff high strength orange brown mottled grey sandy CLAY with medium and coarse gravel of subangular coal. (GLACIAL DEPOSITS)		GDU		
1.50	D		100			84.57	1.20	Firm medium strength reddish brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU		
3.00	D		50				(2.10)			GDU		
			48			82.47	3.30	Trial pit terminated at 3.30m bgl.				

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support:				Water Strikes					
	Width	1.00m	None				Date	Time	Strike	Minutes	Standing	Remarks
	Orientation	degrees from north	Stability:				General Remarks Trial pit complete at 3.30m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:25				Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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TRIAL PIT LOG

Hole No.
TP150

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Job No
70004430

Client
Harrow Estates Plc

Date
**03-07-14
03-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S Weston	Co-Ordinates (NGR) E 389971.550 N 382218.090	Ground Level (m AOD) 84.900
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50	ES					84.70	(0.20) 0.20	MADE GROUND: Hay over brown slightly sandy SILT (TOPSOIL)		TS	
						84.50	(0.20) 0.40	MADE GROUND: Reinforced concrete		CONC	
						(0.70)	MADE GROUND: Brown and grey sandy GRAVEL and occasional cobbles and boulders of subangular fine to coarse concrete and rare clinker		GMG		
1.20	ES					(0.30)	MADE GROUND: Dark grey CLAY with possible black staining and rare brick fragments.		GMG		
1.70	ES					(0.90)	Firm grey slightly sandy CLAY with light grey silty medium and coarse sand partings. Boulder noted (500x300x300mm). (GLACIAL DEPOSITS)		GDU		
2.00	D					82.60	2.30				
2.40	D					(0.20) 82.40	2.50	Brown silty fine SAND (GLACIAL DEPOSITS)		GDU	
3.00	D					(1.20)		Firm locally stiff brown sandy CLAY (GLACIAL DEPOSITS)		GDU	
						81.20	3.70	Borehole terminated at 3.7m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.70m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
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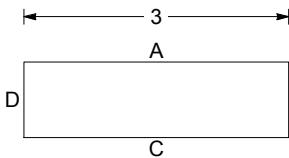
Job No
70004430

Client
Harrow Estates Plc

Date
**04-08-14
04-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389298.030 N 381722.300	Ground Level (m AOD) 90.260
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10	ES						(0.40)	PROBABLE MADE GROUND: Long grass over brown slightly gravelly SAND with rootlets. Gravel is fine to coarse subangular to rounded of various lithologies (TOPSOIL).		GMG		
0.40	ES					89.86	0.40	PROBABLE MADE GROUND: Loose orange brown slightly gravelly SAND. Gravel is medium and coarse rounded to subangular of various lithologies.		GMG		
			50				(0.60)	PROBABLE MADE GROUND: Firm reddish brown mottled grey slightly gravelly slightly sandy CLAY. Gravel is fine to coarse angular to subrounded of various lithologies		CMG		
1.20	ES	0				88.96	1.30	1.20 m bgl; black staining - faint odour				
1.40	D ES	0	104				(1.70)	Stiff high strength brown and grey slightly gravelly friable CLAY. Gravel is fine and medium rounded to subangular of various lithologies. (GLACIAL DEPOSIT).		SUPD		
3.00	D					87.26	3.00	Trial pit complete at 3.00m bgl.				



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 3.00 bgl. Black staining apparent at 1.20m bgl. No radiological readings above background recorded. No groundwater encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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TRIAL PIT LOG

Hole No.
TP152

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**01-08-14
01-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389816.120 N 381336.800	Ground Level (m AOD) 82.200
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SAMPLES & TESTS						STRATA				Install / Backfill	
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend		Geology
0.30	ES	3				82.10	0.10	MADE GROUND: ASPHALT		TARMAC	
						81.90	0.30	MADE GROUND: Orange brown and occasionally yellow sandy fine to coarse very angular to subrounded GRAVEL of brick and various lithologies with angular cobbles of sandstone.		GMG	
0.80	ES	3					(0.50)	MADE GROUND: Black sandy ashy fine to coarse angular to subrounded GRAVEL of brick and various lithologies. Odour.		GMG	
						81.40	0.80	Soft dark grey sandy CLAY with relict organic matter. (GLACIAL DEPOSITS)		ALV	
1.40	ES	B				80.80	1.40	Light brown and grey fine and medium SAND. (GLACIAL DEPOSITS)		ALV	
1.60	ES						(1.40)				
						79.40	2.80	Trial pit terminated at 2.80m bgl due to instability			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support:			
	Width	1.00m	None			
	Orientation	degrees from north	Stability: Running sand causing instability 1.40m bgl			
Scale 1:25		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.				

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		1.40			

General Remarks
Trial pit complete at 2.80m bgl. Unidentified odour 0.3-0.8m bgl. No radiological readings above background recorded. Groundwater encountered at 1.40m bgl. Hole backfilled upon completion.



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TRIAL PIT LOG

Hole No.
TP155

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-07-14
30-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389466.340 N 382505.150	Ground Level (m AOD) 90.050
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	0				89.80	0.25	MADE GROUND: Grass over dark brown slightly clayey slightly gravelly SAND. Gravel is fine and medium subangular of various lithologies (TOPSOIL)		MG	
						89.45	0.60	MADE GROUND: Light brown slightly clayey sandy fine and medium angular GRAVEL of various lithologies including limestone.		GMG	
0.60-0.70	ES	0	110					Stiff high strength orange brown mottled greenish grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.00-1.10	D		90								
1.50-1.70 1.50-1.60	B D		110 90				(1.60)				
2.00-2.20	D		80			87.85	2.20	Trial pit complete at 2.2m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	2.80m	Shoring/Support: None	Water Strikes					
	Width	0.60m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north	General Remarks Trial pit complete at 2.2m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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TRIAL PIT LOG

Hole No.
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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389577.650 N 382560.620	Ground Level (m AOD) 91.610
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30-0.50	B ES	0				91.31	0.30	MADE GROUND: Grass over dark brown slightly clayey slightly gravelly SAND. Gravel is fine and medium subangular of various lithologies (TOPSOIL)		TS	
0.30-0.50	B ES	0				90.76	0.55	MADE GROUND: Light brown sandy fine to coarse angular GRAVEL of limestone with broken and whole brick, occasional rebar wire and cobbles and boulders of concrete.		GMG	
0.85-1.00	D ES	0	60			90.61	1.00	Firm medium strength dark bluish grey sandy organic CLAY. (RELICT TOPSOIL)		SUPD	
1.00-1.30	B ES	0						Firm becoming stiff high strength orange brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.00-1.25	B ES	0									
2.00	D		70				(1.50)	1.80 m bgl; Dark reddish brown			
2.50	D		100			89.11	2.50	Trial pit complete at 2.5m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	2.80m	Shoring/Support: None	Water Strikes					
	Width	0.60m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north	General Remarks Trial pit complete at 2.5m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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Job No
70004430

Client
Harrow Estates Plc

Date
**30-07-14
30-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389554.180 N 382491.280	Ground Level (m AOD) 91.780
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10-0.20	ES	0				91.53	0.25	Grass over dark brown slightly clayey slightly gravelly SAND. Gravel is fine and medium subangular of various lithologies (TOPSOIL)		TS		
0.40-0.50	ES	0	32					Soft low strength brown mottled greenish grey sandy slightly gravelly CLAY with occasional pockets of grey fine and medium sand. Gravel is fine and medium rounded to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
1.00	D		36									
1.50-2.00 1.50	B D		46			(2.45)		1.50 m bgl; becoming medium strength				
2.50	D		56			89.08	2.70	Trial pit complete at 2.7m bgl				

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 2.80m	Shoring/Support: None	Water Strikes					
	Width 0.60m		Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	Stability: Stable	General Remarks Trial pit complete at 2.7m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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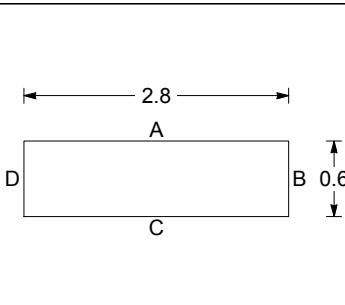
Job No
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Client
Harrow Estates Plc

Date
31-07-14
31-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389787.780 N 382586.820	Ground Level (m AOD) 90.300
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	0					(0.30)	MADE GROUND: Grass over stiff medium strength brown sandy slightly gravelly CLAY with occasional boulders of concrete. Gravel is fine and medium of various lithologies. (TOPSOIL)		TS	
0.20-0.50	ES					90.00	0.30				
0.50-1.00	B						(0.80)	Firm high strength orange brown mottled grey sandy slightly gravelly CLAY. Gravel is fine and medium of various lithologies. (GLACIAL DEPOSITS)		GDU	
0.50-0.60	ES	0	110								
1.00-1.10	D					89.20	1.10				
1.20-1.40	B		100				(1.40)	Orange brown medium SAND. (GLACIAL DEPOSITS)		GDU	
						87.80	2.50				
Trial pit complete at 2.5m bgl											



Length
2.80m

Width
0.60m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 2.5m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ - WSPTEMPLATE1.03.GDT 11/12/14



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Job No
70004430

Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389493.840 N 382452.390	Ground Level (m AOD) 89.360
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.00-0.30	ES	0						MADE GROUND: Grass over stiff brown very sandy slightly gravelly CLAY. Gravel is fine and medium of various lithologies (TOPSOIL)		TS	
0.10-0.20	ES						(0.60)				
0.30-0.50	ES	0									
0.60-0.70	B ES		26			88.76	0.60	Soft low strength brown sandy CLAY with pockets of fine to coarse sand. (GLACIAL DEPOSITS)		GDU	
1.00-1.10	D		24				(1.60)				
2.20-2.50	B					87.16	2.20	Orange brown clayey gravelly medium and coarse SAND. Gravel is fine angular of various lithologies. (GLACIAL DEPOSITS)		GDU	
						86.66	2.70	Trial pit complete at 2.7m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 2.80m	Shoring/Support: None	Water Strikes					
	Width 0.60m		Stability: Unstable from 2.2m bgl	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north				2.60			
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							
			General Remarks Trial pit complete at 2.7m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered as seepage from 2.6m bgl. Hole backfilled upon completion.					



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Job No
70004430

Client
Harrow Estates Plc

Date
05-08-14
05-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389655.680 N 382425.810	Ground Level (m AOD) 89.360
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES					89.16	(0.20) 0.20	MADE GROUND: Crops over brown slightly gravelly fine SAND with occasional subangular cobbles. Gravel is fine to coarse angular to rounded of various lithologies.		GMG	
						88.96	(0.20) 0.40	Soft dark grey brown organic CLAY		ALV	
0.50	ES							Brown slightly gravelly fine and medium SAND. Gravel is fine and medium subangular to rounded of various lithologies (GLACIAL DEPOSITS).		GDU	
1.00	B						(1.40)				
						87.56	1.80	Trial pit terminated at 1.80m bgl due to instability			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Unstable from 0.60m bgl.	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 1.80m bgl. Sides unstable. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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Job No
70004430

Client
Harrow Estates Plc

Date
01-08-14
01-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389833.540 N 382485.830	Ground Level (m AOD) 88.190
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0					(0.40)	Long grass over brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse well rounded to subangular of various lithologies (TOPSOIL)		TS	
0.40	ES	0				87.79	0.40	Orange reddish brown occasionally yellow fine and medium SAND. (GLACIAL DEPOSITS)			
1.00	B						(1.20)	1.00 m bgl; trial pit collapse		GDU	
						86.59	1.60				
							(0.80)	Reddish brown slightly silty fine SAND. (GLACIAL DEPOSITS)		GDU	
						85.79	2.40				
								Trial pit terminated at 2.40m bgl due to instability			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Unstable from 1.00m bgl	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north				1.70			
Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.			General Remarks Trial pit complete at 2.40m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.70m bgl. Hole backfilled upon completion.					



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Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
31-07-14
31-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389450.580 N 382393.570	Ground Level (m AOD) 87.430
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	3						MADE GROUND: Dark brown and light grey clayey fine and medium angular GRAVEL of ash and clinker and fine and medium rounded of various lithologies. 0.00 - 0.75 Radiation reading of 15 cts/sec		MG	
0.40-0.50	ES	0					(0.75)				
0.50	D					86.68	0.75				
0.80-1.00	ES							Greenish brown clayey slightly gravelly fine and medium SAND. Gravel is fine to coarse rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.20	D						(1.35)				
2.00	D					85.33	2.10				
			66								
			60								
			50				(1.10)				
2.80	D										
2.90-3.00	ES	0				84.23	3.20	Firm locally stiff dark reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								Trial pit complete 3.2m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	2.80m	Shoring/Support: None	Water Strikes					
	Width	0.60m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north				2.70			

Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

General Remarks
Trial pit complete at 3.2m bgl. No visual or olfactory evidence of contamination observed. Radiological readings of 15 cts/sec (background >10 cts/sec). Groundwater encountered as seepage from 2.7m bgl. Hole backfilled upon completion.



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TP163

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Job No
70004430

Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389543.970 N 382376.570	Ground Level (m AOD) 88.870
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10-0.20	ES	0				88.17	0.70	MADE GROUND: Light brown slightly clayey slightly gravelly fine SAND with rare cobbles of concrete. Gravel is fine and medium rounded of various lithologies.		GMG		
0.80-1.20 0.80-0.90 0.80-0.90 1.00	B D ES D	0	20			87.37	1.50	Soft dark greyish brown sandy organic CLAY with disseminated reddish brown fibrous peat. (SUPERFICIAL DEPOSITS)		SUPD		
1.50	D		40 100					Stiff high strength reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
2.00	D		82 100 100 96			86.17	2.70	Trial pit complete at 2.7m bgl				

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 2.80m	Shoring/Support: None	Water Strikes					
	Width 0.60m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.7m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No Groundwater encountered. Hole backfilled upon completion.						

Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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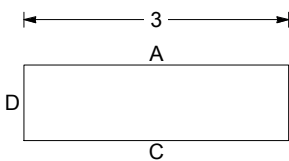
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Client
Harrow Estates Plc

Date
05-08-14
05-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389630.950 N 382330.710	Ground Level (m AOD) 88.160
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10	ES	0					(0.40)	MADE GROUND: Light brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse angular to rounded of various lithologies (TOPSOIL).		TS		
0.40	ES	0				87.76	0.40	Orange brown slightly gravelly fine and medium SAND. Gravel is rounded medium of various lithologies. (GLACIAL DEPOSIT).		GDU		
2.00	B					85.36	2.80	Trial pit complete at 2.80m bgl.				



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 2.80m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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Job No
70004430

Client
Harrow Estates Plc

Date
05-08-14
05-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389754.600 N 382384.020	Ground Level (m AOD) 87.340
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10	ES	0				86.94	0.40	Grass over light brown slightly gravelly fine and medium SAND with rootlets. Gravel is fine to coarse subangular to rounded of various lithologies (TOPSOIL).		TS		
0.40	ES	0				85.44	1.50	Orange brown slightly gravelly fine and medium SAND. Gravel is medium and coarse rounded of various lithologies (GLACIAL DEPOSITS).		GDU		
1.50	B					85.44	1.90					
2.50	B					84.54	2.80	Grey and brown silty fine SAND. (GLACIAL DEPOSITS).		GDU		
								Trial pit complete at 2.80m bgl.				

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 2.80m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						

Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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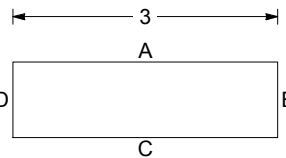
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Client
Harrow Estates Plc

Date
01-08-14
01-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389973.510 N 382515.520	Ground Level (m AOD) 86.890
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0				86.54	0.35	Grass over brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse subangular to rounded of various lithologies (TOPSOIL)		TS	
0.50	ES		44			85.39	1.50	Firm medium strength orange mottled light grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
1.50	B ES	0				84.69	2.20	Orange brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
1.50						84.09	2.80	Reddish brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
								Trial pit terminated at 2.80m bgl due to instability.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Unstable from 1.80m bgl

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		2.20			

General Remarks
Trial pit complete at 2.80m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.20m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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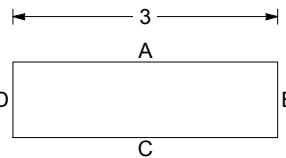
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70004430

Client
Harrow Estates Plc

Date
01-08-14
01-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 390084.460 N 382484.300	Ground Level (m AOD) 86.720
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.40	ES	0				86.32	0.40	Grass over brown fine and medium slightly gravelly SAND with rootlets. Gravel is fine to coarse rounded and subrounded. (TOPSOIL)		TS	
0.80	B		60			85.22	1.10	Firm medium strength orange brown slightly gravelly CLAY. Gravel is fine to coarse subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.50	B		78			84.72	2.00	Stiff high strength reddish brown mottled grey slightly gravelly CLAY. Gravel is angular grey sandstone and coal. (GLACIAL DEPOSITS)		GDU	
2.00	D					84.02	2.70	Reddish brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
2.20	ES	0									
								Trial pit complete at 2.70m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Unstable from 2.40m bgl

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		2.20			

General Remarks
Trial pit complete at 2.70m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.20m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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TRIAL PIT LOG

Hole No.
TP168

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**04-08-14
04-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389892.850 N 382337.020	Ground Level (m AOD) 85.110
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES	0				84.66	0.45	MADE GROUND: Brown slightly clayey gravelly SAND. Gravel is fine to coarse angular to rounded of various lithologies (TOPSOIL).		GMG	
						84.51	0.60	Orange brown slightly clayey fine to coarse SAND. (GLACIAL DEPOSITS)		GDU	
			48				(1.00)	Firm becoming stiff medium strength brown and grey occasionally orangey brown sandy CLAY. (GLACIAL DEPOSITS)		GDU	
			64			83.51	1.60				
							(0.40)	Grey brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
2.00	B					83.11	2.00	Reddish grey brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
2.30	ES	0				82.31	2.80				
								Trial pit terminated at 2.80m bgl due to instability.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Unstable from 2.00m bgl	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north				2.30			

Scale 1:25
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

General Remarks
Trial pit complete at 2.80m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.3m bgl. Hole backfilled upon completion.



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Job No
70004430

Client
Harrow Estates Plc

Date
04-08-14
04-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389782.700 N 382290.760	Ground Level (m AOD) 85.720
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0					(0.50)	MADE GROUND: Brown slightly clayey gravelly fine SAND. Gravel is angular to rounded of various lithologies (TOPSOIL). Likely replaced after installation of drain.		GMG	
0.50	D					85.22	0.50	MADE GROUND: Orange brown occasionally light grey slightly gravelly clayey SAND. Gravel is rounded to subangular of various lithologies. Likely replaced after installatio of drain.		GMG	
						84.22	1.50	1.40 m bgl; ceramic land drain		GMG	
			42		↓	83.72	2.00	Firm medium strength reddish brown mottled grey slightly gravelly CLAY. Gravel is medium and coarse subangular to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
						83.02	2.70	Reddish brown slightly silty fine SAND. (GLACIAL DEPOSITS)		GDU	
								Trial pit terminated at 2.70m bgl due to instability			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length	3.00m	Shoring/Support: None	Water Strikes					
	Width	1.00m		Stability: Unstable from 2.00m bgl.	Date	Time	Strike	Minutes	Standing
	Orientation	degrees from north				2.00			
Scale 1:25				Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.					
				General Remarks Trial pit complete at 2.70m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.0m bgl. Hole backfilled upon completion.					



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Job No
70004430

Client
Harrow Estates Plc

Date
**05-08-14
05-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389522.930 N 382267.510	Ground Level (m AOD) 87.320
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50	B					86.92	0.40	Long grass over brown slightly gravelly fine and medium SAND with rootlets. Gravel is fine to coarse subangular to subrounded of various lithologies. (TOPSOIL).		TS	
0.50	ES	0						Reddish brown slightly clayey slightly gravelly SAND. Gravel is rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	B					85.32	2.00	Reddish brown slightly clayey fine to coarse SAND and rounded GRAVEL of sandstone and coal and various lithologies. (GLACIAL DEPOSITS)		GDU	
						84.82	2.50	Brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
						84.22	3.10	Trial pit complete at 3.10m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ_WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.10m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						

Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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Job No
70004430

Client
Harrow Estates Plc

Date
05-08-14
05-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389400.470 N 382183.810	Ground Level (m AOD) 86.700
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES	0				86.35	0.35	Crops over dark brown slightly gravelly fine SAND with rootlets. Gravel is fine and medium subangular to rounded of various lithologies.(TOPSOIL)		TS	
0.50	ES	0	88					Stiff high strength orange brown mottled light grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
1.50	D							1.00 m bgl; becoming brown		GDU	
2.00	B		120			84.70	2.00	Orange fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
						83.70	3.00	Trial pit complete at 3.00m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						

Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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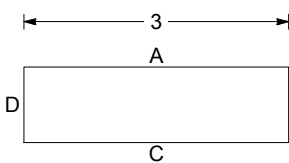
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Client
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Date
**05-08-14
05-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389616.050 N 382216.710	Ground Level (m AOD) 87.000
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50	ES	0				86.50	0.50	Crops over brown slightly gravelly fine SAND. Gravel is fine to coarse angular to subrounded of various lithologies. (TOPSOIL)		TS	
						85.50	1.50	Orange brown slightly clayey slightly gravelly fine and medium SAND. Gravel is subangular to rounded of various lithologies. (GLACIAL DEPOSITS).		GDU	
2.00	B					84.00	3.00	Reddish brown slightly clayey slightly gravelly SAND. Gravel is fine to coarse subangular and subrounded of various (GLACIAL DEPOSITS)		GDU	
								3.00 Trial pit complete at 3.00m bgl.			



Length 3.00m	Shoring/Support: None	Water Strikes					
		Date	Time	Strike	Minutes	Standing	Remarks
Width 1.00m	Stability: Stable						
Orientation degrees from north		General Remarks Trial pit complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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Hole No.
TP173

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Woodford Aerodrome

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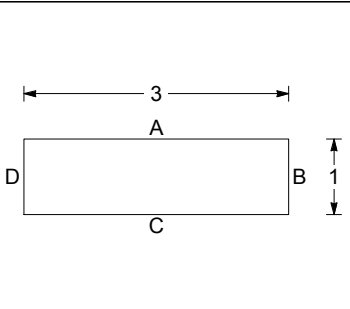
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70004430

Client
Harrow Estates Plc

Date
04-08-14
04-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389689.500 N 382175.440	Ground Level (m AOD) 86.170
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0				85.97	(0.20) 0.20	Brown slightly gravelly fine SAND. Gravel is angular to subrounded of various lithologies. (TOPSOIL)		TS	
0.30	ES	0						Brown slightly gravelly fine and medium SAND. Gravel is fine to coarse rounded of various lithologies. (GLACIAL DEPOSITS).		GDU	
1.00	B						(2.60)				
3.00	B					83.37	(0.40) 2.80	Brown silty fine SAND. (GLACIAL DEPOSITS).		GDU	
						82.97	3.20	Trial pit complete at 3.20m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 3.20m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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Job No
70004430

Client
Harrow Estates Plc

Date
04-08-14
04-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389899.660 N 382161.740	Ground Level (m AOD) 85.120
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0				84.72	0.40	Brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse rounded to subangular of various lithologies (TOPSOIL).		TS	
0.50	ES	0					(0.80)	Firm orange brown mottled grey slightly sandy CLAY. Gravel is fine to coarse of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.00	B					83.92	1.20	Reddish brown clayey SAND. (GLACIAL DEPOSITS)		GDU	
							(1.40)				
						82.52	2.60				
2.60	D						(0.40)	Stiff reddish brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
						82.12	3.00	Trial pit complete at 3.00m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ_WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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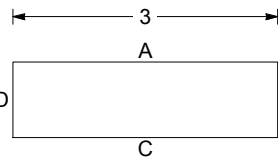
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70004430

Client
Harrow Estates Plc

Date
04-08-14
04-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389763.250 N 382051.760	Ground Level (m AOD) 84.970
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.15	ES	0					(0.50)	Brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse subangular and subrounded of various lithologies (TOPSOIL).		TS	
0.50	ES	0				84.47	0.50	Brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
1.00	B						(1.70)				
2.50	B					82.77	2.20	Reddish brown slightly clayey slightly gravelly SAND. Gravel is medium rounded. (GLACIAL DEPOSITS).		GDU	
						82.07	2.90	Trial pit complete at 2.90m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		1.70			
		2.70			

General Remarks
Trial pit complete at 2.90m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Water seepage encountered at 1.70m bgl. Groundwater encountered at 2.70m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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Job No
70004430

Client
Harrow Estates Plc

Date
**04-08-14
04-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389859.770 N 382008.330	Ground Level (m AOD) 85.340
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES	0				84.94	0.40	Brown slightly gravelly fine and medium SAND with rootlets. Gravel is fine to coarse angular to rounded of various lithologies. (TOPSOIL)		TS	
			74			84.54	0.80	Orange brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
1.00	D						(1.10)	Firm medium strength orange brown mottled grey slightly gravelly sandy CLAY. Gravel is coarse angular of coal. (GLACIAL DEPOSITS)		GDU	
2.00	B		60		↓	83.44	1.90	Reddish brown slightly gravelly slightly clayey fine SAND with rare rounded cobbles. (GLACIAL DEPOSITS)		GDU	
						82.14	3.20	Trial pit complete at 3.20m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	Stability: Unstable from 1.90m bgl.			1.90			
Scale 1:25			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.					
			General Remarks Trial pit complete at 3.20m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.90m bgl. Hole backfilled upon completion.					



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TRIAL PIT LOG

Hole No.
TP177

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**31-07-14
31-07-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389264.150 N 382113.540	Ground Level (m AOD) 87.270
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES	0				86.97	0.30	MADE GROUND: Grass over brown slightly clayey slightly gravelly SAND. Gravel is fine angular of ash and clinker.		MG	
						86.47	0.80	PROBABLE MADE GROUND: Orange brown fine and medium SAND.		MG	
0.80-0.90	D						(0.30)	Stiff dark greyish brown sandy CLAY with abundant rootlets.		GDU	
0.80-0.90	ES	0				86.17	1.10	Firm medium strength reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.50	D		80				(1.00)			GDU	
2.00	D		60				(0.30)	Greyish green clayey medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
			80			84.87	2.40			GDU	
2.50	D					84.67	2.60	Firm locally stiff reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								Trial pit complete at 2.6m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION GPJ - WSPTEMPLATE1.03.GDT 11/12/14

	Length	2.80m	Shoring/Support: None	Water Strikes					
	Width	0.60m		Date	Time	Strike	Minutes	Standing	Remarks
	Orientation	degrees from north	Stability:	General Remarks					
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								

General Remarks
Trial pit complete at 2.6m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.



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Hole No.
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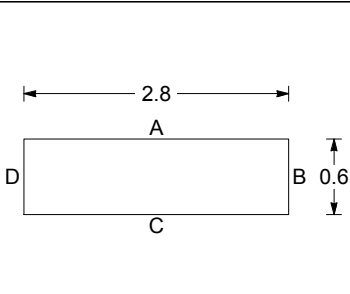
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70004430

Client
Harrow Estates Plc

Date
31-07-14
31-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 389309.440 N 382142.240	Ground Level (m AOD) 87.380
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.10-0.20	ES	0				86.68	0.70	MADE GROUND: Grass over brown slightly clayey slightly gravelly SAND. Gravel is fine and medium of brick limestone and glass.		MG		
1.00-1.20	D ES	0	70					Firm locally stiff medium strength orange brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
1.30-1.50	B		60									
2.00	D		56									
2.60	D		80			84.78	2.60	Trial pit complete at 2.6m bgl				



Length
2.80m

Width
0.60m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 2.6m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



WSP
150-182 The Quays
M50 3SP
Telephone: 0161 886 2400
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TRIAL PIT LOG

Hole No.
TP179

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
**01-08-14
01-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389965.800 N 381573.310	Ground Level (m AOD) 83.760
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	0				83.36	0.40	MADE GROUND: Long grass over brown gravelly SAND with rootlets. Gravel is fine to coarse angular to rounded of various lithologies (TOPSOIL).		GMG	
0.50	ES	5	40				(1.80)	MADE GROUND: Soft brown streaked black slightly sandy slightly gravelly CLAY with fragments of brick sandstone and plastic - strong hydrocarbon odour.		CMG	
2.20	ES	0	46			81.56	2.20	2.00 m bgl; ceramic land drain - 100mm diameter.			
2.50	D						(1.00)	Firm medium strength brown mottled grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
3.20	B		52			80.56	3.20				
							(0.20)	Grey clayey medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
						80.36	3.40	Trial pit complete at 3.40m bgl.			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 3.40m bgl. Hydrocarbon odour encountered at 0.40m bgl. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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150-182 The Quays
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TRIAL PIT LOG

Hole No.
TP180

Project
Woodford Aerodrome

Sheet
1 of 1

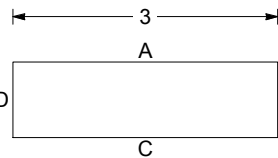
Job No
70004430

Client
Harrow Estates Plc

Date
01-08-14
01-08-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389801.650 N 381249.670	Ground Level (m AOD) 81.930
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES					81.73	0.20	MADE GROUND: Brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse angular to subrounded of various lithologies (TOPSOIL).		GMG	
						81.63	0.30	MADE GROUND: Yellowish brown gravelly SAND with frequent cobbles of yellow angular sandstone.			
						81.13	0.80	MADE GROUND: Grey brown sandy fine to coarse angular to subrounded GRAVEL with inclusions of glass bottles, metal, wire. Occasional angular cobbles of sandstone.			
0.80	ES	3						MADE GROUND: Soft medium strength grey streaked black slightly gravelly sandy CLAY. Gravel is fine to coarse angular to subrounded of various lithologies - hydrocarbon odour.		GMG	
1.00	D		46								
							(1.40)			CMG	
2.20	ES	0				79.73	2.20	MADE GROUND: Grey and dark grey slightly gravelly SAND. Gravel is fine to coarse rounded.		GMG	
							(1.40)			GMG	
3.60	ES	0	98			78.33	3.60	Stiff high strength reddish brown slightly gravelly CLAY. (GLACIAL DEPOSITS)		GDU	
							(0.20)			GDU	
							3.80				
								Trial pit completed at 3.80m bgl.			



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks
		3.60			

General Remarks
Trial pit complete at 3.80m bgl. Hydrocarbon odour encountered at 0.80m bgl. No radiological readings above background recorded. Groundwater encountered at 3.60m bgl. Hole backfilled upon completion.

Scale 1:25

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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TRIAL PIT LOG

Hole No.
TP182

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**05-08-14
05-08-14**

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J Kinchington	Co-Ordinates (NGR) E 389527.500 N 382117.020	Ground Level (m AOD) 86.140
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES	0				85.94	(0.20) 0.20	MADE GROUND: Crops over brown slightly gravelly fine and medium SAND. Gravel is angular to subrounded of sandstone and brick and various lithologies		GMG	
						85.64	(0.30) 0.50	MADE GROUND: Light brown gravelly fine to coarse SAND. Gravel is angular to subrounded of sandstone with angular cobbles.		GMG	
1.00	D ES	0	40			85.14	(0.50) 1.00	MADE GROUND: Orange brown and grey slightly gravelly CLAY. Gravel is fine to coarse. 0.80 m bgl; 100mm ceramic land drain		CMG	
						84.44	(0.70) 1.70	Firm medium strength orange brown mottled grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
2.50	D		60			84.14	(0.30) 2.00	Brown grey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
						83.34	(0.80) 2.80	Firm medium strength reddish brown slightly gravelly CLAY. Gravel is fine to coarse rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								Trial pit complete at 2.80m bgl			

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Date	Time	Strike	Minutes	Standing	Remarks
	Orientation degrees from north	Stability: Stable	General Remarks Trial pit complete at 2.80m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:25	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							



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TRIAL PIT LOG

Hole No.
TPB01

Project
Woodford Aerodrome

Sheet
1 of 1

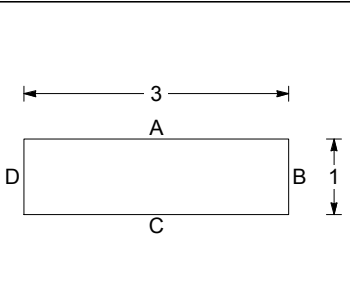
Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S McGeever	Co-Ordinates (NGR) E 389829.310 N 381761.920	Ground Level (m AOD) 86.360
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
						84.86	1.50	MADE GROUND: Brown slightly clayey slightly cobbly gravelly SAND with rootlets. Cobbles and gravel of concrete, asphalt and brick.		GMG		



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None


Stability:
Stable


Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

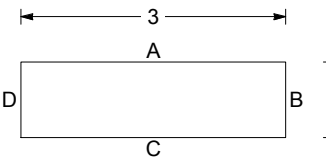
General Remarks
Trial pit complete at 0.70m into side of bund.
No visual or olfactory evidence of contamination observed.
No radiological readings above background recorded.
Groundwater not encountered.
Hole backfilled upon completion.

Scale 1:18.75

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

 WSP 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	TRIAL PIT LOG			Hole No. TPB02
	Project Woodford Aerodrome			Sheet 1 of 1
Job No 70004430	Client Harrow Estates Plc			Date 02-07-14 02-07-14
Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S McGeever	Co-Ordinates (NGR) E 389889.890 N 381750.870	Ground Level (m AOD) 86.010

SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
						85.26	0.75	MADE GROUND: Brown slightly clayey slightly gravelly SAND with rootlets. Gravel is fine to coarse angular to rounded of various lithologies.		GMG		

	Length 3.00m	Shoring/Support: None	Water Strikes					
	Width 1.00m		Stability: Stable	Date	Time	Strike	Minutes	Standing
	Orientation degrees from north	General Remarks Trial pit complete at 0.70m into side of bund. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.						
Scale 1:18.75	Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.							

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14



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150-182 The Quays
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TRIAL PIT LOG

Hole No.
TPB03

Project
Woodford Aerodrome

Sheet
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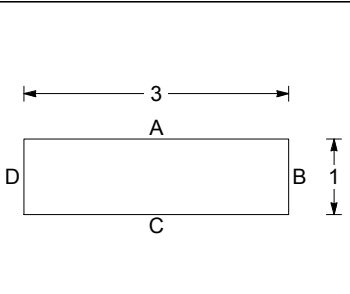
Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By S McGeever	Co-Ordinates (NGR) E 389901.570 N 381784.020	Ground Level (m AOD) 85.890
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
						85.29	0.60	MADE GROUND: Brown slightly clayey gravelly SAND with rootlets. Gravel is fine to coarse angular to well rounded of various lithologies.		GMG		



Length
3.00m

Width
1.00m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit complete at 0.70m into side of bund.
No visual or olfactory evidence of contamination observed.
No radiological readings above background recorded.
Groundwater not encountered.
Hole backfilled upon completion.

Scale 1:18.75

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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TRIAL PIT LOG

Hole No.
TPB05

Project
Woodford Aerodrome

Sheet
1 of 1

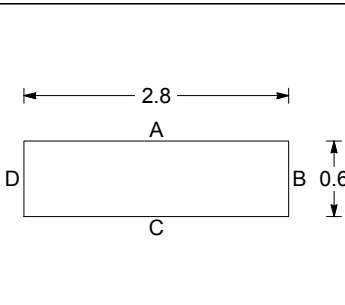
Job No
70004430

Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 0.000 N 0.000	Ground Level (m AOD)
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.50-1.50	B ES	0				0.50	0.50	MADE GROUND: Dark brown clayey gravelly SAND with abundant cobbles. Gravel and cobbles are of concrete asphalt brick drainage ceramics wood slate sandstone plastic with occasional rebar.		MG		
0.50-1.50	B ES	0				1.50	1.50	MADE GROUND: Firm sandy gravelly dark brown CLAY with abundant cobbles. Gravel and cobbles are of concrete asphalt brick drainage ceramics wood slate sandstone plastic with occasional rebar.		MG		
						2.00	2.00					
						2.50	2.50	Stiff orange brown mottled greenish grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium of various lithologies. (GLACIAL DEPOSITS)		GDU		
						2.50	2.50	Trial pit complete at 2.5m bgl				



Length
2.80m

Width
0.60m

Orientation
degrees from north

Shoring/Support:
None

Stability:
Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit completed within bund - complete at 2.5m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:18.75

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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Fax:

TRIAL PIT LOG

Hole No.
TPB06

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
30-07-14
30-07-14

Contractor / Driller H & C Plant Hire Ltd	Method/Plant Used JCB 3CX	Logged By J. Watson	Co-Ordinates (NGR) E 0.000 N 0.000	Ground Level (m AOD)
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.50-1.00	ES	0					(1.50)	MADE GROUND: Dark brown clayey gravelly SAND with abundant cobbles. Gravel and cobbles are of concrete asphalt brick drainage ceramics wood slate sandstone plastic with occasional rebar.		MG		
1.00-1.50	B					1.50						
Trial pit complete at 1.5m bgl												

08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GPJ WSPTEMPLATE1.03.GDT 11/12/14

Length: 2.80m

Width: 0.60m

Orientation: degrees from north

Shoring/Support: None

Stability: Stable

Water Strikes					
Date	Time	Strike	Minutes	Standing	Remarks

General Remarks
Trial pit completed within bund - complete at 1.5m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.

Scale 1:18.75 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



WSP
150-182 The Quays
M50 3SP
Telephone: 0161 886 2400
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WINDOW SAMPLE LOG

Hole No.
WS101

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
26-06-14
26-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389621.720 N 382842.010	Ground Level (m AOD) 90.850
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.40-0.60	ES	.	0	110 120 122			90.53 90.50	(0.32) 0.35	MADE GROUND: Reinforced CONCRETE.		CONC	
1.00-1.45	D (S)	3,2,2 3,2,2 N=9.		128 80 120				(1.45)	MADE GROUND: Soft brown sandy gravelly CLAY. Gravel fine and medium of various lithologies. Stiff high strength slightly reddish brown sandy slightly gravelly CLAY. Gravel is fine angular of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.80-2.00	ES	.	0	100 50 56			89.05	1.80	1.50 m bgl; becoming medium strength		GDU	
2.00-2.45	D (S)	3,2,2 3,4,3 N=12.		96			88.60	(0.45) 2.25	Medium dense orange brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
							88.40	2.45	Stiff brown slightly sandy slightly gravelly CLAY. Gravel is fine angular of various lithologies. (GLACIAL DEPOSITS)		GDU	
									Window sample complete 2.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks Windowless sample hole complete at 2.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



WSP
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M50 3SP
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WINDOW SAMPLE LOG

Hole No.
WS102

Project
Woodford Aerodrome

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1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
26-06-14
26-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389506.320 N 382772.590	Ground Level (m AOD) 90.640
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SAMPLES & TESTS							STRATA						Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm	
0.60-0.80	ES		0				90.19	0.45	MADE GROUND: CONCRETE		CONC		
							90.04	0.60	MADE GROUND: Dark grey very clayey sandy fine to coarse subangular GRAVEL of sandstone and brick.		MG		
							89.79	0.85	MADE GROUND: Light brown sandy fine to coarse subangular GRAVEL of sandstone.		MG		
1.00-1.45	D (S)	8,9,9 4,5,4 N=22.					89.74	0.90	MADE GROUND: Red brown medium SAND.		MG		
							89.64	1.00	MADE GROUND: Firm brown sandy gravelly CLAY. Gravel is fine to coarse of sandstone and brick.		MG		
							89.04	1.60	MADE GROUND: Dark orange brown gravelly medium to coarse SAND. Gravel is fine to medium subangular of sandstone.		MG		
2.00-2.45	D (S)	2,1,1 1,2,2 N=6.					88.34	2.30	PROBABLE MADE GROUND: Loose dark orange brown medium and coarse SAND.		MG		
							88.14	2.50	Very soft very low strength dark grey organic sandy CLAY. (SUPERFICIAL DEPOSITS)		SUPD		
2.70-2.90	ES		3				87.94	2.70	Soft dark brown amorphous PEAT.		SUPD		
3.00-3.45	D (S)	SW,SW,SW 1,0,0 N=0.					87.64	3.00	Dark greyish brown silty fine SAND with a faint hydrocarbon odour. (SUPERFICIAL DEPOSITS)		SUPD		
3.10-3.50	ES		5	10			87.04	3.60	Very soft very low strength dark greenish grey slightly silty and sandy CLAY with a faint hydrocarbon odour. (SUPERFICIAL DEPOSITS)		SUPD		
4.00-4.45	D (S)	1,2,2 2,3,3 N=10.					86.84	3.80	Dark brown medium SAND. (GLACIAL DEPOSITS)		GDU		
							86.19	4.45	Firm dark reddish brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU		
							Windowless sample complete at 4.45m bgl						

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.80		2.50	
General Remarks Windowless sample hole complete at 4.45m bgl. Faint hydrocarbon odour observed between 2.5 to 3.8m bgl. No radiological readings above background recorded. Groundwater encountered at 3.8m bgl. Hole installed upon completion. Response zone 2.0 to 3.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



WSP
150-182 The Quays
M50 3SP
Telephone: 0161 886 2400
Fax:

WINDOW SAMPLE LOG

Hole No.
WS103

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**26-06-14
26-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389568.720 N 382768.980	Ground Level (m AOD) 90.700
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30-0.40	ES		0				90.54	0.16	MADE GROUND: Reinforced CONCRETE.		CONC	
							90.46	0.24	MADE GROUND: Brown clayey sandy fine to coarse angular GRAVEL of sandstone and various lithologies. Firm reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded to angular of various lithologies. (GLACIAL DEPOSITS)		MG	
1.00	(S)	1,1,2 1,2,1 N=6.		110			(2.21)	1.30 m bgl; stiff high strength			GDU	
2.00	D (S)	1,2,1 2,1,2 N=6.		74				2.00 m bgl; firm medium strength				
							88.25	2.45	Windowless sample complete at 2.45m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 2.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.0 to 2.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS104

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
26-06-14
26-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389657.650 N 382780.910	Ground Level (m AOD) 90.830
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.20-0.30	ES	.	0			90.67	0.16	Reinforced CONCRETE.		CONC		
0.40-0.50	ES	.		132		90.53	0.30	MADE GROUND: Black sandy ashy fine and medium subangular GRAVEL of predominantly ash and clinker with some sandstone.		MG		
1.00-1.45	D (S)	1,2,3 2,3,3 N=11.		138			(1.40)	Stiff high strength brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine angular of various lithologies. (GLACIAL DEPOSITS)				
				140				0.90 - 1.00 m bgl; band of orangish brown fine sand		GDU		
				70				1.50 m bgl; becoming medium strength				
				76		89.13	1.70	Medium dense orange brown fine SAND. (GLACIAL DEPOSITS)		GDU		
2.00-2.45	D (S)	2,3,3 4,4,5 N=16.					(0.75)					
						88.38	2.45	Windowless sample complete at 2.45m bgl				

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 2.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.0 to 2.0m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS105

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389435.290 N 382702.210	Ground Level (m AOD) 90.710
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
							90.51	0.20	CONCRETE.		CONC	
							90.21	0.50	MADE GROUND: Black mottled dark brown ashy gravelly SAND. Gravel is fine to coarse very angular to rounded of brick, clinker and various lithologies.		GMG	
0.70	ES	.	0					(0.70)	MADE GROUND: Loose reddish brown gravelly SAND. Gravel is fine and medium subangular to rounded of various lithologies.		GMG	
1.00	(S)	1.0,0 0.1,0 N=1.				↓	89.51	1.20				
1.10	D	.	0					(0.50)	Soft to firm brown slightly sandy organic CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
							89.01	1.70				
2.00	D (S)	2.1,1 0.1,1 N=3.	0			↓		(0.60)	Loose grey slightly clayey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							88.41	2.30				
3.00	D (S)	3.3,3 3.4,4 N=14.	0					(1.15)	Firm to stiff reddish brown mottled light grey slightly gravelly slightly sandy CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							87.26	3.45	3.00 Windowless sample hole complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.20 1.80			
						General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.20 to 1.80m bgl. Hole backfilled upon completion.					

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS106

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
24-06-14
24-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389539.910 N 382717.570	Ground Level (m AOD) 90.700
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.50			0				90.50	0.20	MADE GROUND: CONCRETE.		CONC	
0.90	ES D (S)	1,1,2 3,3,3 N=11.	0	98			90.25	0.45	MADE GROUND: Black mottled dark brown gravelly ashy SAND. Gravel is fine to coarse subrounded to well rounded of brick, clinker and various lithologies.		GMG	
1.00											(1.55)	Firm reddish brown mottled light grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to well rounded of various lithologies. (GLACIAL DEPOSITS)
2.00	D (S)	2,2,3 3,3,4 N=13.	0	100			88.70	2.00	2.0m bgl; windowless sample hole complete			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 2.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone from 1.00 to 2.00m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS107

Project
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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389469.160 N 382680.550	Ground Level (m AOD) 90.700
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20			0				90.53	0.17	MADE GROUND: CONCRETE.		CONC	
			0				90.30	0.40	MADE GROUND: Black mottled dark brown slightly gravelly ashy SAND. Gravel is fine to coarse very angular to rounded of brick, sandstone clinker and various lithologies.		GMG	
0.50			0				90.15	0.55	MADE GROUND: Grey sandy fine to coarse very angular to subrounded GRAVEL of sandstone and various lithologies.		GMG	
			0				90.10	0.60		MADE GROUND: Red brick cobble.		
1.00	D (S)	1,1,2 4,4,4 N=14.	0	80			(1.15)		Firm becoming stiff reddish brown mottled light grey slightly gravelly slightly sandy CLAY. Gravel is fine and medium angular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.50	ES		0				88.95	1.75	Reddish brown mottled light grey slightly clayey silty SAND. (GLACIAL DEPOSITS)		GDU	
2.00	D (S)	2,2,2 3,4,3 N=12.	0				88.70	2.00		2.0m bgl; windowless sample hole complete		

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 2.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:37.5			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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WINDOW SAMPLE LOG

Hole No.
WS108

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
24-06-14
24-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389515.320 N 382664.640	Ground Level (m AOD) 90.700
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20			1				90.55	0.15	MADE GROUND: CONCRETE.		CONC	
							90.45	0.25	MADE GROUND: Black slightly gravelly SAND with abundant ash. Gravel is fine and medium very angular to rounded of various lithologies.		GMG	
							90.40	0.30			GMG	
0.40	ES		1				(0.30)	0.60	MADE GROUND: Light grey mottled brown sandy coarse GRAVEL of predominantly sandstone and brick.		GMG	
0.70			0	50					MADE GROUND: Light reddish brown mottled grey sandy GRAVEL. Gravel is fine and medium very angular to subangular of predominantly burnt shale.			
1.00	D (S)	2.2,3 3.3,4 N=13.							Firm becoming stiff reddish brown mottled light grey slightly gravelly sandy CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.20	ES			76			(1.40)		1.50 - 1.60 m bgl; band of light grey fine to coarse sand			
2.00	D (S)	2.3,3 4.4,5 N=16.		100			88.70	2.00	2.0m bgl; windowless sample hole complete			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 2.0m bgl. Slightly elevated PID readings detected, all at or below 1ppm. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.0 to 2.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS109

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
24-06-14
24-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389423.950 N 382625.980	Ground Level (m AOD) 90.690
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.25	ES					90.52	0.17	MADE GORUND: CONCRETE.		CONC		
						90.29	0.40	MADE GROUND: Black mottled dark brown slightly gravelly SAND with abundant ash. Gravel is fine to coarse angular to rounded of predominantly brick, clinker and various lithologies.		GMG		
						90.19	0.50	MADE GROUND: Red fine and medium SAND.		GMG		
0.80	ES					(0.70)		MADE GROUND: Firm brownish grey sandy gravelly CLAY. Gravel is fine and medium angular to subrounded of coal, sandstone and various lithologies.		CMG		
						89.49	1.20	Firm high strength dark brown slightly gravelly sandy organic CLAY. (SUPERFICIAL DEPOSITS)		SUPD		
1.00	D (S)	1,1,1 1,1,2 N=5.						Firm reddish brown mottled light grey slightly gravelly sandy CLAY. Gravel is fine and medium angular to rounded of coal and various lithologies. (GLACIAL DEPOSITS)		GDU		
								89.24	1.45			
2.00	D (S)	1,2,2 1,2,1 N=6.						2.70 m bgl; band of grey fine and medium sand.				
								(1.55)				
3.00	(S)	2,3,4 4,4,4 N=16.						3.0m bgl; windowless sample hole complete				
								87.69	3.00			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 3.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS110

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389418.370 N 382579.030	Ground Level (m AOD) 90.600
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10			0					90.45	0.15	MADE GROUND: CONCRETE.		
								(0.40)	MADE GROUND: Dark brown mottled black and grey gravelly SAND with frequent ash and occasional cobbles of brick. Gravel is fine to coarse subangular to well rounded of predominantly brick, clinker and sandstone.		GMG	
0.60			0				90.05	0.55	MADE GROUND: Medium dense brownish reddish grey sandy fine to coarse very angular to subrounded GRAVEL of various lithologies.		GMG	
							89.90	0.70	MADE GROUND: Medium dense red coarse slightly gravelly SAND. Gravel is fine subangular to well rounded of various lithologies.		GMG	
1.00	D (S)	3,4,4 3,3,4 N=14.					89.40	1.20	MADE GROUND: Medium dense yellowish brown slightly gravelly SAND. Gravel is fine subrounded to well rounded of various lithologies.		GMG	
1.00	ES (S)	3,4,4 3,3,4 N=14.					89.15	1.45	MADE GROUND: Reddish brown fine sandy GRAVEL. Gravel is fine and medium very angular to subrounded of predominantly burnt shale.		GMG	
1.50			9.6				88.70	1.90	MADE GROUND: Cobbles of red brick.		GMG	
2.00	D (S)	1,3,1 1,3,1 N=6.					88.30	2.30	MADE GROUND: Dark reddish brown SAND.		GMG	
							87.90	2.70	Firm dark brownish grey slightly sandy organic CLAY (POSSIBLE RELICT TOPSOIL).		SUPD	
2.70	ES						87.60	3.00	Firm grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
2.90			1.3					(1.00)				
3.00	D (S)	1,0,1 1,1,2 N=5.		32								
				70								
4.00	(S)	1,1,1 2,1,2 N=6.					86.60	4.00	4.0m bgl; windowless sample hole complete			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.10	20	2.30	
General Remarks Windowless sample hole complete at 4.0m bgl. Olfactory odour noted and PID readings recorded up to 9.6ppm. No radiological readings above background recorded. Groundwater encountered at 2.10 - 2.30m bgl. Hole installed upon completion. Response zone 0.5 to 2.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS111

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389602.110 N 382868.400	Ground Level (m AOD) 90.690
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.20	ES		165.4			90.49	0.20	MADE GROUND: ASPHALT.		TARMAC	0.19 m bgl; Strong hydrocarbon odour.	
						90.44	0.25			GMG		
						90.24	0.45	MADE GROUND: Brown clayey gravelly SAND with an oily sheen. Gravel is fine to coarse subangular and subrounded of predominantly limestone.		GDU		
				77				Medium dense brownish red medium SAND. (GLACIAL DEPOSITS)				
				60				Firm to stiff brown slightly gravelly slightly sandy CLAY. Gravel is fine very angular to subrounded of various lithologies. (GLACIAL DEPOSITS)				
1.00	D (S)	1,1,2 2,2,2 N=8.		62								
2.00	D (S)	2,3,3 3,4,5 N=15.		80			(3.25)			GDU		
3.00	D (S)	3,4,6 7,7,7 N=27.										
3.70	ES					86.99	3.70	Medium dense light brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU		
						86.79	3.90					
4.00	D (S)	2,3,3 4,5,9 N=21.					(1.10)	Stiff brown slightly sandy CLAY with occasional sand bands. (GLACIAL DEPOSITS)		GDU		
5.00	(S)	4,5,4 6,9,10 N=29.		110		85.69	5.00	5.0m bgl; windowless sample hole complete				

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.70			
						General Remarks Windowless sample hole complete at 5.00m bgl. Strong hydrocarbon odour and sheen noted below asphalt at 0.19m bgl. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.00 to 3.00m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS112

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389688.270 N 382916.370	Ground Level (m AOD) 91.200
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SAMPLES & TESTS						STRATA						Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30-0.50	ES		0				91.00	0.20	made ground: Reinforced CONCRETE		CONC	
0.70-1.00	ES		0				90.50	0.70	MADE GROUND: Light brown sandy clayey fine to coarse angular to subangular GRAVEL of limestone.		MG	
1.00-1.20	ES (S)	1,1,2 2,1,2 N=7.	0	50			90.20	1.00	Firm dark brown sandy slightly gravelly CLAY. Gravel is fine and coarse rounded of various lithologies. (POSSIBLE RELICT TOPSOIL)		SUPD	
				58				(0.90)	Firm medium strength slightly sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
				64								
				50								
				46			89.30	1.90	Orangish brown fine SAND. (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,1,1 1,2,2 N=6.					89.20	2.00	Soft brown very sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								(0.65)				
							88.55	2.65				
							88.40	2.80	Soft brown slightly sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
3.00	(S)	2,2,2 3,4,4 N=13.						(0.30)				
							88.10	3.10	Medium dense orange brown clayey gravelly fine SAND. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
				46								
				46								
				58								
4.00	(S)	2,3,3 4,4,4 N=15.						(2.35)	Firm medium strength brown slightly sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
				46								
				48								
				60								
				50								
				70								
5.00	(S)	3,3,4 4,6,9 N=23.										
							85.75	5.45	5.45m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered as damp soil at 1.9m bgl. Hole installed upon completion. Response zone 0.95 to 4.95m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS113

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
24-06-14
24-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389727.930 N 382897.130	Ground Level (m AOD) 91.580
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m2)	P Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.50-0.60	ES		0				91.53	0.05	MADE GROUND: ASPHALT.		TARMAC	
								(0.35)	MADE GROUND: Brown sandy fine to coarse angular GRAVEL.		GMG	
							91.18	0.40				
								(0.30)	MADE GROUND: Dark grey and black very sandy fine and medium angular GRAVEL with ash and cobbles of brick and sandstone. Gravel of clinker and coal.		GMG	
1.00-1.20	ES (S)	0,1,1 1,1,2 N=5.	0				90.88	0.70				
								(0.30)	MADE GROUND: Greenish brown medium and coarse gravelly SAND. Gravel is fine and coarse of sandstone.		GMG	
							90.58	1.00				
								(1.20)	MADE GROUND: Firm low and medium strength reddish brown mottled greyish brown sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies.		CMG	
2.00-2.20	ES (S)	1,2,2 2,2,2 N=8.	0				89.38	2.20				
								(0.30)	Soft dark brown very sandy organic CLAY with frequent rootlets. (POSSIBLE RELICT TOPSOIL)		SUPD	
							89.08	2.50				
								(0.50)	Firm low and medium strength reddish brown sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
3.00	(S)	2,3,2 3,3,2 N=10.					88.58	3.00	No recovery			
								(0.90)			NR	
4.00	(S)	2,3,3 4,4,3 N=14.					87.68	3.90				
								(0.60)	Soft greenish grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
							87.08	4.50				
							86.98	4.60	Orangish brown fine SAND. (GLACIAL DEPOSITS)		GDU	
5.00	(S)	2,3,4 4,4,5 N=17.						(0.85)	Soft greenish grey sandy CLAY. (GLACIAL DEPOSITS) 4.80 m bgl; firm medium strength clay		GDU	
							86.13	5.45	5.45m bgl; windowless sample complete			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.0 to 5.0m bgl.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS114

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389750.020 N 382857.500	Ground Level (m AOD) 91.540
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
							91.49	0.05	MADE GROUND: ASPHALT.		TARMAC	
0.30-0.40	ES		0				91.29	0.25	MADE GROUND: Orange brown sandy clayey fine to coarse angular GRAVEL.		GMG	
0.50-0.60	ES		0	90			91.12	0.42	MADE GOUND: Dark grey and black very sandy fine and medium angular GRAVEL of ash clinker and coal with some vesicular slag brick and sandstone.		GMG	
0.80-1.00	ES		0	60			90.79	0.75	ASSUMED MADE GROUND: Stiff greenish grey mottled brown sandy slightly gravelly CLAY with occasional rootlets. Gravel is fine to coarse of brick and various lithologies.		CMG	
1.00	(S)	2.3.2 3.3.3 N=11.		52					ASSUMED MADE GROUND: Firm locally soft moderate strength reddish brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies.		CMG	
2.00	(S)	2.2.3 3.4.3 N=13.		46				(1.85)	1.70 - 1.90 m bgl; becoming stiff high strength 1.90 - 2.60 m bgl; becoming firm medium strength		CMG	
3.00	(C)	2.3.3 3.3.3 N=12.		46			88.94	2.60	Firm reddish brown clayey amorphous PEAT. (POSSIBLE RELICT TOPSOIL)		SUPD	
4.00	(C)	2.3.2 3.3.3 N=11.					88.84	2.70	Medium dense yellowish brown medium SAND. (GLACIAL DEPOSITS)		GDU	
5.00	(C)	2.3.4 6.7.6 N=23.						(1.70)	3.50 - 4.40 m bgl; becoming greenish grey 3.70 - 4.00 m bgl; becoming clayey		GDU	
							87.14	4.40	Soft becoming firm low strength reddish brown sandy CLAY. (GLACIAL DEPOSITS)		GDU	
							86.09	5.45	5.45m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.40			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered as damp soil from 3.4m bgl. Hole backfilled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS115

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**24-06-14
24-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389801.090 N 382754.460	Ground Level (m AOD) 91.180
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SAMPLES & TESTS						STRATA					Install / Backfill				
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P.Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm				
0.30-0.50	ES		0			90.98	0.20	MADE GROUND: CONCRETE.		CONC					
						90.88	0.30	MADE GROUND: Orangish brown sandy slightly clayey fine to coarse gravel sandstone.		MG					
						90.68	0.50	MADE GROUND: Dark grey and black very sandy fine and medium angular GRAVEL with frequent ash. Gravel of clinker and coal with some slag, brick and sandstone.		MG					
0.80-1.00	ES		0	78		90.48	0.70	MADE GROUND: Red brown fine to coarse GRAVEL of brick.		MG					
						(1.05)		MADE GROUND: Firm locally stiff medium strength locally high strength brown sandy gravelly CLAY with occasional ash. Gravel is fine to coarse of clinker slag, coal and brick.							
1.00	(S)	2,3,2 3,3,3 N=11.		60				1.40 - 1.50 m bgl: sandstone cobble		MG					
1.80-1.90	ES		0			89.43	1.75	Brown slightly clayey organic medium and coarse SAND (POSSIBLE RELICT TOPSOIL)		SUPD					
2.00	(C)	1,1,2 1,2,3 N=8.		54		89.28	1.90	Firm medium strength reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU					
3.00	(S)	1,2,3 2,3,4 N=12.		50											
4.00	(S)	1,1,2 3,5,6 N=16.		50		87.23	3.95	Medium dense orangish red fine and medium SAND. (GLACIAL DEPOSITS)		GDU					
5.00	(C)	8,8,9 10,10,10 N=39.		50						GDU					
						86.58	4.60	Soft reddish brown mottled grey sandy slightly gravelly CLAY. Gravel is fine and medium rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU					
						86.28	4.90	Dense orange red fine and medium SAND. (GLACIAL DEPOSITS)		GDU					
						85.73	5.45	5.45m bgl; windowless sample complete							

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								4.20			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 4.2m bgl. Hole installed upon completion. Response zone 0.5 to 2.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS116

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
24-06-14
24-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389853.900 N 382704.600	Ground Level (m AOD) 89.250
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20-0.40	ES	.	0				89.10	0.15	MADE GROUND: ASPHALT.		TARMAC	
1.00	(C)	1,2,1 2,2,2 N=7.							MADE GROUND: Orangish brown slightly sandy slightly clayey fine to coarse angular GRAVEL of limestone.			
1.50-1.70	ES	.	0				(2.85)				MG	
2.00	(C)	1,2,1 2,2,2 N=7.										
2.50-2.70	ES	.	0									
3.00	(C)	6,6,4 4,3,3 N=14.				↓	86.25	3.00	MADE GROUND: Orangeish brown fine to coarse angular GRAVEL of limestone.		MG	
3.50-3.80	ES	.	0				85.75	3.50	MADE GROUND: Very soft very gravelly sandy CLAY. Gravel is fine to coarse of limestone.		MG	
4.00	(C)	1,1,1 1,1,1 N=4.					85.25	4.00	Loose orangish brown slightly clayey fine and medium SAND. (GLACIAL DEPOSITS)			
4.50-4.70	ES	.	0					(1.45)			GDU	
5.00	(C)	2,3,3 3,3,3 N=12.							5.00 m bgl; becoming medium dense			
							83.80	5.45	5.45m bgl; windowless sample complete			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.00			
<p>General Remarks</p> <p>Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.0m bgl. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS117

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389726.310 N 382750.000	Ground Level (m AOD) 90.380
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
							90.30	0.08	MADE GROUND: ASPHALT.		TARMAC	
								(0.57)	MADE GROUND: Reddish brown sandy GRAVEL and occasional cobbles of predominantly brick		GMG	
							89.73	0.65	MADE GROUND: Light yellowish grey sandy GRAVEL and occasional cobbles. Gravel is predominantly sandstone.		GMG	
1.00	D (S)	1,1,2 1,2,1 N=6.						(0.75)				
							88.98	1.40	ASSUMED MADE GROUND: Firm to stiff reddish brown CLAY. Assumed due to appearance and presence of underlying peat		CMG	
2.00	D (S)	1,2,2 3,3,4 N=12.						(1.45)				
							87.53	2.85	Dark brown to black fibrous PEAT.		SUPD	
2.90	ES						87.38	3.00	Soft to firm light grey slightly sandy slightly gravelly CLAY. Gravel is fine angular of predominantly mudstone and coal. (SUPERFICIAL DEPOSITS)		SUPD	
3.00	D (S)	1,1,1 2,1,2 N=6.						(0.35)				
							87.03	3.35	Dark brown to black sandy organic CLAY. (SUPERFICIAL DEPOSIT)		SUPD	
								(0.45)				
							86.58	3.80	Light brownish grey very sandy organic CLAY. (SUPERFICIAL DEPOSIT)		SUPD	
4.00	D (S)	1,1,1 2,1,2 N=6.						(1.20)				
4.30	ES											
							85.38	5.00	Windowless sample hole complete at 5m bgl			
5.00	(S)	2,3,3 3,3,4 N=13.										

08 WSP WINDOW SAMPLE LOG - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								4.30			
General Remarks Windowless sample hole complete at 5.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 4.30m bgl. Hole installed upon completion. Response zone 1.0 to 5.0m bgl.											

Scale 1:37.5
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS118

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389714.300 N 382718.970	Ground Level (m AOD) 91.140
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.15	ES	.	0				91.04	0.10	MADE GROUND: ASPHALT.		TARMAC	
0.20							91.02	0.12	MADE GROUND: Light grey subangular to rounded GRAVEL of limestone		GMG	
							90.89	0.25	MADE GROUND: Black slightly sandy fine and medium very angular to subangular GRAVEL with frequent ash. Gravel is coal.		GMG	
							90.79	0.35	MADE GROUND: Reddish brown sandy GRAVEL of predominantly brick.		GMG	
1.00	D (S)	1,1,2 3,4,5 N=14.	0						Firm locally soft brown mottled grey and light brown slightly gravelly sandy CLAY. Gravel is fine and medium angular to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							(2.20)					
2.00	D (S)	2,3,3 4,5,5 N=17.	0								GDU	
2.60	ES	.	0				88.59	2.55	Light grey medium SAND. (GLACIAL DEPOSITS)		GDU	
							88.44	2.70	Soft and firm grey slightly sandy gravelly CLAY. Gravel is fine angular of predominantly coal. (GLACIAL DEPOSITS)		GDU	
3.00	D (C)	2,3,2 3,3,4 N=12.	0								GDU	
4.00	D (C)	2,3,3 4,3,5 N=15.	0				87.14	4.00	Medium dense reddish brown SAND. (GLACIAL DEPOSITS)		GDU	
							86.94	4.20	Stiff reddish brown gravelly CLAY. Gravel is fine and medium angular to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
5.00	(C)	6,9,9 9,11,10 N=39.					86.14	5.00	5.0m bgl; windowless sample hole complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 5.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS119

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389798.900 N 382640.950	Ground Level (m AOD) 90.480
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.05	ES	.				90.30	0.18	MADE GROUND: Brown clayey SAND with rootlets. (TOPSOIL)		MG		
0.20		.	0			89.93	0.55	MADE GROUND: Brown gravelly SAND. Gravel is fine and medium very angular to subrounded of brick coal mudstone and various lithologies.		GMG		
		.				89.38	1.10	MADE GROUND: Dark brown slightly gravelly SAND. Gravel is fine and medium very angular to subrounded of predominantly coal and brick.		GMG		
1.00	D (S)	1,2,3 3,4,7 N=17.		55		88.73	1.75	Firm to stiff light orangish grey slightly gravelly slightly sandy CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
1.80	ES	.		60		88.28	2.20	Loose light grey medium SAND. (GLACIAL DEPOSITS)		GDU		
2.00	D (C)	1,1,1 2,1,2 N=6.		30		87.68	2.80	Soft low strength light brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU		
		.				87.48	3.00	Reddish brown gravelly SAND. Gravel is fine and medium subangular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
3.00	D (C)	1,1,2 3,5,7 N=17.				87.13	3.35	Greyish brown slightly gravelly sandy CLAY. Gravel is fine and medium angular of various lithologies. (GLACIAL DEPOSITS)		GDU		
		.				85.98	4.50	Medium dense light orangish reddish brown SAND. (GLACIAL DEPOSITS)		GDU		
4.00	D (C)	2,3,3 4,3,4 N=14.				85.48	5.00	Medium dense brown slightly clayey SAND. (GLACIAL DEPOSITS) 4.50 m bgl; strong hydrocarbon odour.		GDU		
4.60	ES	.						5.0m bgl; windowless sample hole complete				
5.00	D (C)	1,2,3 1,1,1 N=6.										

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.75			
General Remarks Windowless sample hole complete at 5.0m bgl. Strong hydrocarbon odour encountered at 4.50m bgl. No radiological readings above background recorded. Groundwater encountered at 1.7m bgl. Hole installed upon completion. Response zone 1.0 to 5.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS120

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
25-06-14
25-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389450.570 N 382808.170	Ground Level (m AOD) 90.570
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.20-0.40	ES		0			90.47	0.10	MADE GROUND: ASPHALT.		TARMAC		
						90.37	0.20	MADE GROUND: Reinforced CONCRETE.		CONC		
0.60-0.80	ES		0			90.17	0.40	MADE GOUND: Dark grey and black very sandy fine and medium angular GRAVEL with frequent ash. Gravel is clinker, coal, slag, brick and sandstone.		MG		
						90.02	0.55	MADE GROUND: Orange brown clayey sandy fine to coarse subangular GRAVEL of sandstone.		MG		
1.00-1.45	D (S)	2,3,3 3,1,1 N=8.						Firm locally soft medium strength reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded to subangular of various lithologies. (GLACIAL DEPOSITS)				
1.40-1.60	ES		0									
2.00-2.45	D (S)	1,2,1 2,2,2 N=7.										
3.00	(S)	2,2,3 3,3,4 N=13.					(4.90)			GDU		
4.00-4.45	D (S)	3,3,4 3,4,5 N=16.						3.70 m bgl; becoming stiff clay				
5.00	(S)	3,4,4 4,5,6 N=19.										
						85.12	5.45	5.45m bgl; windowless sample complete				

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.90			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 0.9m bgl. Hole installed upon completion. Response zone 0.5 to 1.50m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS121

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389446.480 N 382776.710	Ground Level (m AOD) 90.660
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (m AOD)	Depth (Thickness)	Description	Legend	Geology	
						90.56	0.10	MADE GROUND: ASPHALT.		TARMAC	
0.30-0.50	ES					90.36	0.30	MADE GROUND: Reinforced CONCRETE.		CONC	
0.60-0.80	ES			60		90.11	0.55	MADE GROUND: Reddish brown slightly clayey medium SAND.		MG	
1.00-1.20	ES (S)	1,2,2 3,3,3 N=11.		100				Stiff locally firm high strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,2,2 2,3,2 N=9.		100			(3.40)				
3.00	(S)	2,3,3 4,3,4 N=14.		100							
4.00	(S)	2,2,3 2,2,3 N=10.		106							
				80		86.71	3.95	Medium dense reddish brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
				78				Stiff reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
5.00	(S)	2,3,3 4,4,5 N=16.		70		85.66	5.00				(0.45)
						85.21	5.45	5.45m bgl; windowless sample complete			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								4.20			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 4.2m bgl. Hole back filled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS122

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
25-06-14
25-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389388.410 N 382732.330	Ground Level (m AOD) 90.710
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SAMPLES & TESTS						STRATA						Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm	
0.30-0.50	ES		0			90.63	0.08	MADE GROUND: ASPHALT.		TARMAC		
						90.49	0.22	MADE GROUND: Reinforced CONCRETE.		CONC		
0.70-0.90	ES		0			90.31	0.40	MADE GOUND: Dark grey and black sandy fine and medium angular GRAVEL with frequent ash. Gravel is clinker, coal, slag, brick and sandstone.		MG		
						(0.50)		MADE GROUND: Reddish brown slightly clayey sandy GRAVEL of fine and medium sandstone, burnt shale, and occasional coal.		MG		
1.00-1.45	ES (S)	1,2,3 1,2,2 N=8.				89.81	0.90	MADE GROUND: Loose reddish brown sandy fine to coarse GRAVEL of crushed brick.		MG		
						(0.60)				MG		
2.00	(S)	3,2,1 2,2,2 N=7.				89.21	1.50	Very soft low strength dark greyish brown sandy gravelly CLAY. (SUPERFICIAL DEPOSITS)		SUPD		
						(0.50)				SUPD		
2.30-2.50	ES					88.71	2.00	Firm medium strength greenish grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded to subangular of various lithologies. (GLACIAL DEPOSITS)		GDU		
						(1.20)		2.70 m bgl; becoming brown and sandy		GDU		
3.00-3.45	ES (S)	3,4,4 4,3,3 N=14.				87.51	3.20	Brown fine SAND. (GLACIAL DEPOSITS)		GDU		
						87.31	3.40	Very soft low strength dark grey brown sandy gravelly CLAY. (GLACIAL DEPOSITS)		GDU		
4.00-4.45	ES (S)	2,2,3 3,3,4 N=13.				87.11	3.60	Medium dense brown fine SAND. (GLACIAL DEPOSITS)		GDU		
						(0.85)				GDU		
						86.26	4.45	Windowless sample complete at 4.45m bgl				

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.00			
General Remarks Windowless sample hole complete at 4.45m bgl. Slight olfactory evidence of hydrocarbon contamination observed at 1.0 to 1.2m bgl. No radiological readings above background recorded. Groundwater encountered at 1.0m bgl. Hole installed upon completion. Response zone 0.5 to 1.5m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS123

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389259.750 N 382671.230	Ground Level (m AOD) 89.590
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20-0.30	ES		0			89.54	0.05	MADE GROUND: Concrete paving slab.		CONC MG	
						89.47	0.12	MADE GROUND: Reddish brown coarse SAND.			
1.00-1.45	D (S)	5,6,3 3,3,3 N=12.	30			88.69	0.90	MADE GROUND: Brown clayey ashy SAND and fine to coarse angular GRAVEL. Gravel is limestone, brick, concrete and rare ceramics.		MG	
							(0.78)				
1.00-1.30	ES (S)	5,6,3 3,3,3 N=12.				88.09	1.50	MADE GROUND: Black gravelly ashy SAND with a faint hydrocarbon odour. Gravel is fine and medium of clinker.		MG	
						87.99	1.60	MADE GROUND: Sandy reddish brown fine to coarse angular GRAVEL of broken brick.		MG	
2.00-2.45	D (S)	1,2,2 1,2,2 N=7.		72			(1.20)	Firm medium strength dark greenish grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.01-2.20	ES		0	60			86.79	1.60 - 1.90 m bgl; possible hydrocarbon staining		GDU	
3.00-3.45	D (S)	2,3,3 2,3,3 N=11.					(0.50)	Greyish brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	1,2,1 2,2,2 N=7.					86.29	3.30			
							(2.15)	Loose reddish brown slightly clayey medium SAND. (GLACIAL DEPOSITS)		GDU	
5.00-5.45	D (S)	2,2,1 2,2,3 N=8.					84.14	5.45			
								5.45m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.70			
								3.10			
General Remarks Windowless sample hole complete at 5.45m bgl. Olfactory evidence of hydrocarbon contamination observed between 0.9 to 1.5m bgl. No radiological readings above background recorded. Groundwater encountered at 1.7 and 3.1m bgl. Hole installed upon completion. Response zone 0.5 to 1.5m bgl.											

Scale 1:37.5
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS124

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389321.850 N 382586.290	Ground Level (m AOD) 90.480
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. mm
0.30-0.50	ES	.					90.18	(0.30) 0.30	MADE GROUND: Reinforced CONCRETE.		CONC	
							89.88	(0.30) 0.60	MADE GROUND: Brown sandy fine and medium angular GRAVEL of sandstone and brick.		MG	
0.70-0.90	ES	.		46					MADE GROUND: Firm locally soft low and medium strength brown sandy slightly gravelly CLAY. Gravel is fine and coarse angular of brick.		MG	
1.00-1.45	D (S)	1,0,1 0,1,0 N=2.		50				(1.10)			MG	
				30			88.78	1.70				
				30			88.58	1.90	Soft low strength dark brown sandy organic CLAY (POSSIBLE RELICT TOPSOIL)		SUPD	
2.00-2.45	D (S)	1,2,1 1,2,2 N=6.		70					Firm medium strength brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of various lithologies. (GLACIAL DEPOSITS)			
				74				(1.30)			GDU	
				74								
				90								
				102								
3.00-3.45	D (S)	2,3,3 4,5,5 N=17.		110			87.28	3.20	Medium dense orange brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							86.98	(0.30) 3.50				
				100					Firm high strength brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
4.00-4.45	D (S)	3,4,4 5,5,6 N=20.		100			86.03	(0.95) 4.45				
									m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.10			
General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.1m bgl. Hole installed upon completion. Response zone 1.0 to 2.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS125

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389334.500 N 382573.630	Ground Level (m AOD) 90.420
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
						90.26	0.16	MADE GROUND: Reinforced CONCRETE.		CONC	
0.50-0.60	ES		0			89.92	0.50	MADE GROUND: Brown sandy fine and medium angular GRAVEL of sandstone.		MG	
						89.82	0.60				
						89.72	0.70	MADE GOUND: Dark grey and black very sandy fine angular GRAVEL with ash. Gravel is clinker and coal.		MG	
						89.57	0.85	CONCRETE.		CONC	
						89.42	1.00	MADE GROUND: Gravelly orange brown medium and coarse SAND. Gravel is fine and medium angular of sandstone.		NODATA	
1.00-1.45	D (S)	2,2,2 3,2,2 N=9.				89.22	1.20	MADE GROUND: Firm locally soft grey sandy slightly gravelly CLAY. Gravel is fine and medium of brick and various lithologies.		MG	
1.00-1.20	ES (S)	2,2,2 3,2,2 N=9.	1			89.02	1.40	MADE GROUND: Loose sandy fine and medium GRAVEL with a slight hydrocarbon odour. Gravel is brick and various lithologies.		SUPD	
1.40-1.60	ES		0				(0.60)	Firm dark brown sandy organic CLAY (POSSIBLE RELICT TOPSOIL). Firm medium strength brown slightly sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00-2.45	D (S)	1,2,1 1,1,1 N=4.				88.42	2.00	Loose slightly clayey orange brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							(0.50)				
						87.92	2.50	2.40 - 2.50 m bgl; becoming clayey sand.		GDU	
							(0.90)				
3.00-3.45	D (S)	2,2,3 3,4,5 N=15.				87.02	3.40	Medium dense reddish brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							(0.90)				
4.00	(S)	2,3,4 4,5,6 N=19.				86.12	4.30	Stiff locally firm medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							(0.60)				
						85.52	4.90	Medium dense orangish brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
5.00-5.45	D (S)	2,2,3 2,3,2 N=10.				84.97	5.45	Firm medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								5.45m bgl; windowless sample complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.00			
						General Remarks Windowless sample hole complete at 5.45m bgl. Slight hydrocarbon odour noted 1.0m to 1.2m bgl. No radiological readings above background recorded. Groundwater encountered at 2.0m bgl. Hole installed upon completion. Response zone 1.0 to 5.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS126

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
**26-06-14
26-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389391.800 N 382514.520	Ground Level (m AOD) 90.270
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.25	ES						90.12	0.15	MADE GROUND: ASPHALT.		TARMAC	
							89.77	0.50	MADE GROUND: Dark brown mottled black slightly clayey gravelly SAND with occasional fragments of metal. Gravel is fine to coarse very angular to rounded of brick and various lithologies.		GMG	
1.00	D (C)	Sw,Sw,0 1.0,1 N=2.						(1.70)	Very soft reddish brown slightly sandy CLAY. (PROBABLE MADE GROUND)		CMG	
2.00	D (C)	1.1,2 2.3,7 N=14.				↓	88.07	2.20	Firm dark grey slightly sandy gravelly CLAY. Gravel is fine to coarse angular to subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.20	ES							(1.20)				
3.00	D (S)	2.3,3 4.4,4 N=15.					86.87	3.40	Firm high strength light reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
4.00	D (S)	2.3,3 3.5,5 N=16.					86.17	4.10	Stiff locally firm dark reddish brown slightly gravelly sandy CLAY. Gravel is fine to coarse subrounded to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
5.00	(S)	6.5,6 6.6,7 N=25.					85.27	5.00	m bgl; window sample hole complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.20			
						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.2m bgl. Hole installed upon completion. Response zone 1.0 to 5m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS127

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
26-06-14
26-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389434.780 N 382543.730	Ground Level (m AOD) 90.410
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
							90.01	0.40	CONCRETE.		CONC	
									0.40 m bgl; windowless sample hole refused			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole unable to be drilled due to unable to penetrate Made Ground below concrete core. Location could not be moved due to services in area.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS128

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
**26-06-14
26-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389444.710 N 382538.380	Ground Level (m AOD) 90.380
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10			0				90.13	0.25	MADE GROUND: ASPHALT.		TARMAC	
							89.78	(0.35) 0.60	MADE GROUND: Dark brown mottled black sandy fine to coarse angular to subrounded GRAVEL of predominantly sandstone.		GMG	
0.70			0					(0.75)	MADE GROUND: Light orangish white sandy GRAVEL with occasional cobbles. Gravel is fine to coarse subrounded to rounded of predominantly sandstone.		GMG	
1.00	(C)	9,7,8 5,3,2 N=18.					89.03	1.35				
1.35	ES		0				88.93	1.45	MADE GROUND: Black sandy fine angular to subrounded GRAVEL of brick and various lithologies.		GMG	
1.50	ES		0									
2.00	D (S)	2,1,2 3,3,3 N=11.	0	62					Firm and stiff reddish brown slightly gravelly slightly sandy CLAY. Gravel is fine and medium very angular subrounded of various lithologies. (GLACIAL DEPOSITS)			
3.00	(C)	3,3,3 4,4,6 N=17.		100				(3.55)			GDU	
4.00	D (S)	2,3,4 6,9,9 N=28.	0	140+								
				78			85.38	5.00	5.0m bgl; window sample hole complete			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								4.30			
General Remarks Windowless sample hole complete at 5.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.5 to 5.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



WSP
150-182 The Quays
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WINDOW SAMPLE LOG

Hole No.
WS129

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
**26-06-14
26-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389543.940 N 382625.480	Ground Level (m AOD) 90.730
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10			0				90.53	0.20	MADE GROUND: ASPHALT.		TARMAC	
							90.23	(0.30) 0.50	MADE GROUND: Light grey sandy GRAVEL. Gravel is fine and medium subangular to rounded of predominantly limestone.		GMG	
0.50	ES		0				90.08	0.65	Medium dense orangish brown medium SAND. (GLACIAL DEPOSITS)		GDU	
0.80	ES								Stiff medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.00	D (S)	1,1,1 1,1,1 N=4.										
2.00	D (S)	1,2,1 2,2,3 N=8.		68								
3.00	(S)	3,3,3 3,4,5 N=15.		50				(4.35)				
4.00	D (S)	1,2,2 3,3,5 N=13.										
5.00	(S)	4,5,6 7,7,10 N=30.					85.73	5.00	5.0m bgl; window sample hole complete			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.80m bgl. Hole installed. Response zone 1.0 to 5.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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Job No
70004430

Client
Harrow Estates Plc

Date
**26-06-14
26-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389633.360 N 382620.340	Ground Level (m AOD) 92.060
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	.					91.69	0.37	Dark brown slightly gravelly silty fine SAND with rootlets (TOPSOIL)		TS	
0.40		.	0				91.16	0.90	Light whitish orangish brown clayey fine SAND. (GLACIAL DEPOSITS)		GDU	
1.00	D (S)	1,2,3 3,5,5 N=16.	0	132					Firm to stiff high strength reddish brown mottled light grey slightly gravelly sandy CLAY. Gravel is fine and medium angular to rounded of sandstone, mudstone and various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	D (S)	4,4,5 6,5,6 N=22.	0	80							GDU	
3.00	D (C)	3,3,4 5,4,5 N=18.					88.96	3.10	Medium dense light reddish brown fine to coarse SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(C)	4,4,4 4,6,5 N=19.						(1.90)			GDU	
4.80	ES	.					87.06	5.00	5.0m bgl: Windowless sample hole complete			
5.00	(C)	4,4,5 3,6,6 N=20.										

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
**25-06-14
25-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389736.550 N 382506.760	Ground Level (m AOD) 89.740
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.50			0	130		89.66	0.08	MADE GROUND: Brown slightly clayey slightly gravelly SAND with rootlets. Gravel is fine angular to rounded of various lithologies. (TOPSOIL)		TS		
						89.59	0.15					MADE GROUND: Black gravelly SAND. Gravel is fine very angular of predominantly coal.
1.00	(C)	3,5,6 6,5,6 N=23.	0	130		89.29	0.45	Firm dark brown CLAY. (GLACIAL DEPOSITS) Medium dense brownish orange SAND. (GLACIAL DEPOSITS)		GDU		
						88.54	1.20					Medium dense light yellowish brown SAND. (GLACIAL DEPOSITS)
2.00	D (C)	1,1,2 3,5,6 N=16.	0				(1.60)	Medium dense reddish brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU		
2.50	ES											Medium dense reddish brown fine and medium SAND. (GLACIAL DEPOSITS)
3.00	(C)	3,4,3 3,2,3 N=11.	0					Medium dense reddish brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU		
4.00	D (C)	2,3,2 3,3,3 N=11.	0									Medium dense reddish brown fine and medium SAND. (GLACIAL DEPOSITS)
5.00	(C)	1,1,2 3,2,3 N=10.						5.0m bgl; Window sample hole complete				

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.80			
General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.8m bgl. Hole backfilled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS132

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389422.910 N 382347.770	Ground Level (m AOD) 87.450
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10	ES	.	0				87.22	0.23	MADE GROUND: Dark brown slightly gravelly slightly clayey SAND with rootlets. Gravel is fine and medium very angular to rounded of various lithologies. (TOPSOIL)		GMG	
				46			86.90	0.55	MADE GROUND: Firm brown slightly gravelly slightly sandy CLAY. Gravel is fine and medium very angular to rounded of brick, coal and various lithologies.		CMG	
0.60	ES	.	0	28				(0.80)	MADE GROUND: Soft and firm light grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium very angular to rounded of coal, brick and various lithologies.		CMG	
1.00	D (S)	1,1,1 2,1,2 N=6.	0				86.10	1.35				
				98					Firm to stiff high strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine very angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	D (C)	2,2,3 4,4,7 N=18.		122				(1.55)				
				130			84.55	2.90				
3.00	D (C)	2,2,3 3,4,4 N=14.							Medium dense light orangish brown coarse SAND and fine and medium GRAVEL of various lithologies. (GLACIAL DEPOSITS)		GDU	
3.30	ES	.	0				83.70	3.75				
									Medium dense light brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(C)	3,3,3 4,5,5 N=17.						(1.25)				
							82.45	5.00	5.0 mbgl: Windowless sample hole complete			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings recorded above background. No groundwater encountered. Windowless Sample Hole installed upon completion. Response zone 1.50 to 5.00m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389405.110 N 382314.600	Ground Level (m AOD) 87.530
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.55	ES	.	0	65			87.32	0.21	MADE GROUND: CONCRETE.		CONC	
							87.03	0.50	MADE GROUND: Yellowish brown very sandy fine and medium very angular to well rounded GRAVEL of predominantly sandstone (SUBBASE).		GMG	
1.00	D (S)	1,1,1 1,1,1 N=4.	0			↓	86.33	1.20	MADE GROUND: Dark brown mottled black slightly sandy gravelly CLAY. Gravel is fine and medium very angular to subrounded of brick, mudstone, sandstone and various lithologies.		CMG	
1.40	ES	.	0	30					Soft greyish brown slightly sandy slightly gravelly CLAY with occasional organic material. Gravel is fine and medium very angular to subrounded of various lithologies. (SUPERFICIAL DEPOSITS)			
2.00	D (S)	Sw, Sw, 0 1,1,1 N=3.	0	20				(2.50)			SUPD	
3.00	D (S)	1,1,1 1,2,1 N=5.	0	75			83.83	3.70				
4.00	(C)	3,4,5 7,7,9 N=28.						(0.80)	Medium dense light orangish brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
4.50	(C)	5,9,11 11,13,14 N=49.					83.03	4.50	4.5m bgl; Windowless sample hole refusal			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.20			
General Remarks Windowless sample hole complete at 4.50m bgl. No visual or olfactory evidence of contamination observed. No radiological readings recorded above background. No groundwater strike encountered, seepage and wet clay encountered at 1.2m bgl. Windowless sample hole not installed.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS134

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**03-07-14
03-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389956.270 N 381557.400	Ground Level (m AOD) 82.980
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.80	ES		102				82.83	0.15	MADE GROUND: CONCRETE.		GMG	
1.00	D (C)	Sw,Sw 1,1,1 N=4.		50			82.33	0.65	MADE GROUND: Light greyish yellowish brown slightly clayey sandy GRAVEL. Gravel is fine to coarse very angular to subrounded of predominantly limestone		GMG	
2.00	D (C)	2,3 3,3,2 N=9.		52			81.98	1.00	MADE GROUND: Black slightly clayey slightly sandy fine and course, very angular to rounded GRAVEL of ash, asphalt, slag and clinker. 0.70 m bgl; Strong hydrocarbon odour.		GMG	
2.10	ES						80.88	2.10	Firm to stiff medium strength greyish brown slightly gravelly slightly sandy CLAY.		ALV	
3.00	(C)	1,2 2,3,4 N=14.							Medium dense reddish brown slightly clayey SAND		ALV	
4.00	(C)	3,3 3,4,5 N=19.							2.50 m bgl; relict organic matter.		ALV	
5.00	(C)	4,4 5,4,5 N=20.					77.98	5.00	2.90 - 3.10 Band of sand and fine and medium, subrounded to well rounded gravel of various lithologies.		ALV	
									5.0m bgl; Windowless sample hole complete			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.10			
General Remarks Windowless sample hole complete at 5.00m bgl. Olfactory evidence of hydrocarbon contamination observed at 0.65m to 1m bgl. No radiological readings above background recorded. Groundwater encountered at 2.1m bgl. Hole installed upon completion. Response zone from 1.5m to 4m bgl.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS135

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389963.560 N 381525.670	Ground Level (m AOD) 82.910
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
						82.72	0.19	MADE GROUND: ASPHALT.		CONC	
						82.36	0.55	MADE GROUND: Light brown slightly clayey sandy GRAVEL. Gravel is fine and medium subangular to rounded of various lithologies.		GMG	
1.00	D (C)	Sw,Sw,Sw 1,0,0 N=0.					(0.95)	MADE GROUND: Black slightly gravelly slightly sandy CLAY with frequent ash. Gravel is fine very angular to subrounded of various lithologies. 0.60 m bgl; Strong hydrocarbon odour and sheen.		GMG	
1.30	ES	.	125	24		81.41	1.50	Firm locally soft dark grey slightly sandy slightly gravelly CLAY with occasional organic matter. (SUPERFICIAL DEPOSITS)		SUPD	
1.60	ES	.		65		81.01	1.90	Soft brown slightly sandy CLAY with organic matter. (SUPERFICIAL DEPOSITS)		SUPD	
2.00	D (C)	1,1,1 1,2,1 N=5.	1				(1.00)				
3.00	(C)	1,0,1 0,1,1 N=3.				80.01	2.90	Loose becoming medium dense brown coarse SAND and fine and medium well rounded GRAVEL of various lithologies. (GLACIAL DEPOSITS)		GDU	
4.00	(C)	2,2,2 2,3,2 N=9.					(2.10)				
4.50	ES	.	0								
5.00	(C)	2,3,2 3,4,4 N=13.				77.91	5.00	Windowless sample hole complete at 5.0m bgl.			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.00			
						General Remarks Windowless sample hole complete at 5.00m bgl. Strong olfactory evidence of hydrocarbon contamination observed from 0.55m to 2m bgl. No radiological readings above background recorded. Groundwater encountered at 3m bgl. Hole installed upon completion. Response zone from 3.0 to 4.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

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WS136

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389802.500 N 381552.720	Ground Level (m AOD) 82.900
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.30	ES					82.85	0.05	MADE GROUND: ASPHALT.		TARMAC	
							(0.45)	MADE GROUND: Reinforced CONCRETE.		CONC	
0.50-0.60	ES					82.40	0.50	MADE GROUND: Black sandy fine and medium angular GRAVEL of ash and clinker.		MG GDU	
						82.30	0.60				
0.70-0.80	ES					82.20	0.70	Soft medium strength dark greenish grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
1.00	(S)	1,0,1 1,1,1 N=4.					(0.90)				
						81.30	1.60	Firm red brown sandy CLAY. (GLACIAL DEPOSITS)		GDU	
						81.20	1.70				
						81.10	1.80	Red brown clayey fine SAND. (GLACIAL DEPOSITS)		GDU	
2.00-2.45	D (S)	1,0,1 1,1,1 N=4.						Soft and firm low strength brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium, subrounded to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
								2.80 m bgl; becoming high strength			
3.00-3.45	D (S)	2,3,3 4,3,4 N=14.					(2.65)	3.45 - 3.46 m bgl; lense of coarse sand		GDU	
4.00-4.45	D (S)	3,4,4 4,5,5 N=18.						Window sample terminated at 4.45m bgl			
						78.45	4.45				

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.80			
General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 0.80m bgl. Hole installed upon completion. Response zone 1-4m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
**03-07-14
03-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389873.280 N 381403.440	Ground Level (m AOD) 82.360
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.15	ES					82.21	0.15	MADE GROUND: CONCRETE		CONC		
						82.14	0.22	MADE GROUND: Reddish brown very gravelly sandy CLAY. Gravel is fine to coarse very angular to subrounded of predominantly brick and coal. Firm to stiff medium strength reddish brown slightly gravelly slightly sandy CLAY. Gravel is fine and medium angular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GMG		
1.00	D (C)	2,1,2 1,2,2 N=7.		84			(1.43)	1.20 m bgl; Cobble of subrounded sandstone.		GDU		
				98								
				60								
				48		80.71	1.65	Brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU		
2.00	D (S)	2,2,3 1,2,2 N=8.					(0.30)	Firm to stiff medium strength reddish brown slightly gravelly slightly sandy CLAY. Gravel is fine and medium angular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU		
						80.41	1.95	Loose reddish brown fine to coarse SAND. (GLACIAL DEPOSITS)				
2.60	ES											
3.00	(C)	1,2,1 0,1,1 N=3.					(2.05)			GDU		
						78.36	4.00	4.00 4.0m bgl; Windowless sample hole complete at 4.00m bgl.				

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.00			
						General Remarks Windowless sample hole complete at 4.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater seepage encountered at 3.0m bgl. Hole installed upon completion. Response zone from 1.0 to 4.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS138

Project
Woodford Aerodrome

Sheet
1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
**03-07-14
03-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389926.820 N 381372.650	Ground Level (m AOD) 82.200
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10-0.30	ES	.					82.14	0.06	MADE GROUND: ASPHALT.		TARMAO	
0.10-0.30	ES	.					81.55	0.65	MADE GROUND: Dark grey brown and black sandy GRAVEL with fragments of ash. Gravel is fine to coarse angular of clinker, limestone and sandstone.		MG	
0.70-0.90	ES	.		58			80.70	1.50	Firm locally soft medium strength dark greenish grey to greenish brown CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
1.00-1.45	D (S)	1,1,2 2,3,4 N=11.		60			79.80	2.40	Loose brown medium to coarse SAND. (SUPERFICIAL DEPOSITS)		SUPD	
2.00-2.45	D (S)	0,0,1 0,1,0 N=2.		32			78.75	3.45	Soft low strength reddish brown very sandy CLAY. (GLACIAL DEPOSITS) 2.50 m bgl; becoming medium strength		GDU	
3.00-3.45	D (S)	1,1,2 2,2,2 N=8.							Windowless sample hole complete at 3.45m bgl.			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.80			
						General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.80m bgl. Hole backfilled upon completion.					
Scale 1:37.5			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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WINDOW SAMPLE LOG

Hole No.
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Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389801.800 N 381340.020	Ground Level (m AOD) 82.130
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30	ES		0				↓	81.93	0.20	MADE GROUND: ASPHALT.		TARMAC
						81.68		0.45	MADE GROUND: Loose black sandy GRAVEL with frequent ash. Gravel is fine and medium angular to subrounded of asphalt and various lithologies.		GMG	
						81.58		0.55	MADE GROUND: Cobble of brick.		GMG	
1.00	(S)	2,3,4 2,3,3 N=12.					(0.45)		Firm brown gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies.		GDU	
							81.13	1.00	Loose whitish brown fine and medium SAND.		GDU	
1.70	ES		0				80.53	1.60	Loose grey fine to coarse gravelly SAND. Gravel is fine subrounded to well rounded of various lithologies. Blowing conditions.			
2.00	(S)	1,1,1 2,1,2 N=6.						(0.60)				
3.00	(S)	1,2,2 3,3,4 N=12.						(3.40)	3.00 m bgl; becoming medium dense.		GDU	
4.00	(S)											
5.00	(S)						77.13	5.00	Windowless sample hole complete at 5.00m bgl.			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.60			
						General Remarks Windowless sample hole complete at 5.00m bgl. No olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.6m bgl. Unable to install windowless sample hole due to blowing conditions.					
Scale 1:37.5			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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WINDOW SAMPLE LOG

Hole No.
WS140

Project
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Job No
70004430

Client
Harrow Estates Plc

Date
**03-07-14
03-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389819.590 N 381373.600	Ground Level (m AOD) 82.130
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20			0				81.96	0.17	MADE GROUND: ASPHALT.		TARMAC	
								(0.39)	MADE GROUND: Brownish red gravelly SAND with occasional cobbles of asphalt and brick. Gravel is fine to coarse angular to rounded of predominantly brick.		GMG	
0.60	ES		0				81.57	0.56	MADE GROUND: Black slightly gravelly SAND with frequent ash. Gravel is fine and medium subangular to rounded of various lithologies.		GMG	
								(0.34)				
1.00	(C)	4.4,3 4.5,4 N=16.				↓	81.23	0.90	Medium dense light grey medium SAND. (GLACIAL DEPOSITS). Blowing conditions.			
1.10	ES		0									
2.00	(C)	2.2,3 4.5,6 N=18.						(3.10)				
3.00	(C)											
							78.13	4.00	Windowless sample hole terminated at 4.00m bgl.			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.10			
General Remarks Windowless sample hole complete at 4.0m bgl. No olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.1m bgl. Unable to install windowless sample hole due to blowing conditions.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
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Job No
70004430

Client
Harrow Estates Plc

Date
**30-07-14
30-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389852.330 N 381250.200	Ground Level (m AOD) 82.440
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10	ES						82.39	0.05	MADE GROUND: Dark grey mottled black fine and medium very angular to subrounded GRAVEL of asphalt.		GMG	
								(0.40)	MADE GROUND: Light grey sandy GRAVEL. Gravel is fine to coarse angular to rounded of predominantly limestone (SUBBASE).		GMG	
							81.99	0.45	MADE GROUND: Dark brown mottled black clayey SAND.		GMG	
0.60	ES							(0.75)	0.45 - 1.20 m bgl m bgl; Hydrocarbon Odour		GMG	
1.00	(C)	Sw,Sw,Sw Sw,1,0 N=0.					81.24	1.20				
								(0.90)	Very soft and firm brown mottled yellow brown and black slightly gravelly sandy CLAY. Gravel is fine to coarse subangular to well rounded of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
2.00	D (C)	3,2,3 3,2,2 N=10.					80.34	2.10	Firm locally stiff reddish brown sandy gravelly CLAY. (GLACIAL DEPOSITS)			
									2.40 - 2.60 m bgl; band of sand			
2.60	ES			110					2.90 - 3.00 m bgl; Cobble of sandstone			
3.00	D (S)	3,2,4 3,5,5 N=17.						(2.90)			GDU	
4.00	D (S)	5,5,6 7,8,10 N=31.		70								
							77.44	5.00	Windowless sample hole complete at 5.00m bgl.			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
Scale 1:37.5						Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.					

General Remarks
Window sample complete at 5.00m bgl.
Strong olfactory evidence of hydrocarbon contamination observed from 0.45m to 2.0 m bgl.
No radiological readings above background recorded.
Groundwater not encountered.
Hole installed upon completion. Response zone 2.0 to 5.0m bgl.



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WINDOW SAMPLE LOG

Hole No.
WS142

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389827.320 N 381259.670	Ground Level (m AOD) 82.590
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kNm/m ²)	P Pen (kNm/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
							82.54	0.05	MADE GROUND: Dark grey mottled black fine and medium GRAVEL of asphalt.		GMG	
						82.39	0.20	GMG				
								(0.35)	MADE GROUND: Light greyish brown gravelly SAND. Gravel is fine to coarse angular to rounded of predominantly sandstone (SUBBASE).		GMG	
							82.04	0.55	MADE GROUND: Black slightly clayey gravelly SAND with frequent ash. Gravel is fine and medium very angular to subrounded of mudstone, coal and various lithologies.			
0.80	ES							(0.65)	Firm brown slightly gravelly sandy CLAY with rootlets. Gravel is fine and medium very angular to subrounded of coal, sandstone and various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
1.00	(C)	1,2,1 2,1,3 N=7.					81.39	1.20	Firm and stiff reddish brown gravelly CLAY. Gravel is fine and medium angular well rounded of various lithologies. (GLACIAL DEPOSITS) - slightly organic or sulphurous odour 1.40 - 1.50 m bgl; bands of sand and gravel		GDU	
2.00	(S)	4,3,4 4,5,5 N=18.						(2.70)			GDU	
3.00	(S)	4,5,4 7,8,8 N=27.									GDU	
4.00	(S)	3,4,4 5,7,8 N=24.					78.69	3.90	Medium dense reddish brown clayey gravelly fine to coarse SAND. Gravel is fine subangular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
4.70	ES							(1.10)			GDU	
5.00	(S)	4,4,4 3,4,2 N=13.					77.59	5.00	Windowless sample hole complete at 5.00m bgl.			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								4.20			
Scale 1:37.5						Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.					
General Remarks						Windowless sample hole complete at 5.00m bgl. Slightly organic or sulphurous odour 0.55-1.2m bgl. No radiological readings above background recorded. Groundwater encountered at 4.2m bgl. Windowless sample hole installed upon completion. Response zone from 1.0 to 5.0m bgl.					



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WINDOW SAMPLE LOG

Hole No.
WS143

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389730.140 N 381410.720	Ground Level (m AOD) 82.410
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.40-0.50	ES						82.36	0.05	MADE GROUND: ASPHALT		TARMA	
							82.22	0.19	MADE GORUND: CONCRETE		CONC	
							82.16	0.25	MADE GROUND: Reddish brown sandy fine to coarse angular GRAVEL of broken brick.		GMG	
							82.01	0.40	MADE GROUND: Firm brown sandy CLAY.		GMG	
							81.81	0.60	MADE GROUND: Dark brown silty clayey fine SAND.		GMG	
1.00-1.45	D (S)	1,1,1 0,1,1 N=3.					81.71	0.70	MADE GROUND: Brown slightly clayey medium SAND.		GMG	
							(0.50)	MADE GROUND: Soft brown mottled grey sandy CLAY.		CMG		
2.00-2.45	D (S)	1,2,1 2,2,1 N=6.					81.21	1.20	Loose reddish brown clayey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							(1.10)					
3.00-3.45	D (S)	1,1,3 4,4,5 N=16.					80.11	2.30	Firm low and medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded. of various lithologies. (GLACIAL DEPOSITS)		GDU	
							(1.15)					
							78.96	3.45	Window sample terminated at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.30			
General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.3m bgl. Hole backfilled upon completion.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS144

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller
Dynamic Sampling Ltd

Method/Plant Used
**Premier Tracker Compact
110**

Logged By
S McGeever

Co-Ordinates (NGR)
**E 389661.190
N 381327.200**

Ground Level (m AOD)
82.040

SAMPLES & TESTS

STRATA

Install /
Backfill
Dia.
50
mm

Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Install / Backfill Dia. 50 mm
0.30			0				81.79	0.25	MADE GROUND: ASPHALT.		GMG	
1.00	D (C)	6,10,8 7,7,6 N=28.						(1.25)	MADE GROUND: Medium dense light grey very gravelly SAND. Gravel is fine and medium angular to rounded of predominantly limestone		GMG	
2.00	(C)	2,2,1 1,1,2 N=5.	0				80.54	1.50	MADE GROUND: Light greyish red very sandy GRAVEL with occasional cobbles. Gravel is fine to medium subangular to subrounded of predominantly brick and limestone. Slight hydrocarbon odour at 2.6m bgl.		GMG	
2.70	ES						79.44	2.60	MADE GROUND: Brown mottled black very gravelly sandy CLAY. Gravel is fine to coarse subangular to rounded of brick and various lithologies.		GMG	
3.20	ES	2,1,1 0,3,4 N=8.		20			78.94	3.10	Soft very low and low strength reddish brown sandy CLAY. (GLACIAL DEPOSITS)		GDU	
4.00	D (C)	1,1,2 2,4,4 N=12.					78.39	3.65	Medium dense dark brown mottled black fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
5.00	(C)	1,2,1 2,4,5 N=12.		130			77.54	4.50	Stiff high strength brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							77.04	5.00	5.0m bgl; Windowless sample hole complete at 5.0m bgl.			

Hole Diameter

Recovery

Water Strikes

Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.10			
General Remarks Windowless sample hole complete at 5.00m bgl. Slight hydrocarbon odour encountered at 2.60m bgl. No radiological readings above background recorded. Groundwater encountered at 3.1m bgl. Hole installed upon completion. Response zone from 3.0 to 5.0m bgl.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS145

Project
Woodford Aerodrome

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1 of 1

Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389688.380 N 381303.740	Ground Level (m AOD) 81.970
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES		0	56		81.92	0.05	MADE GROUND: Loose GRAVEL of asphalt.		TARMAC	
						81.77	0.20	MADE GROUND: Light grey medium very angular GRAVEL of predominantly limestone		GMG	
						81.52	0.45	MADE GROUND: Black gravelly SAND with abundant ash. Gravel is fine and medium very angular to subangular of predominantly burnt shale and coal.		GMG	
1.00	(S)	0,1,1 0,1,1 N=3.		25		(0.75)		MADE GROUND: Firm dark greyish brown slightly sandy gravelly CLAY. Gravel is fine to coarse very angular to subrounded of sandstone, brick and various lithologies.	CMG		
						80.77	1.20	Soft greyish brown slightly sandy gravelly CLAY with occasional organic matter. Gravel is fine and medium subangular to rounded of various lithologies. (SUPERFICIAL DEPOSITS)	SUPD		
2.00	D (S)	1,1,1 1,1,1 N=4.		26		(2.70)				SUPD	
3.00	D (C)	Sw,1,1 1,1,1 N=4.		10				3.45 m bgl; organic matter.			
								3.65 m bgl; wood fragment.			
4.00	(C)	2,2,1 0,1,3 N=5.		20		78.07	3.90	Loose brown slightly gravelly coarse SAND. Gravel is fine and medium subangular to well rounded of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
						77.50	4.47	Soft very low strength very soft brownish grey slightly sandy gravelly CLAY with occasional relict organic matter. (SUPERFICIAL DEPOSITS)		SUPD	
5.00	(C)	2,3,4 5,6,7 N=22.				76.97	5.00	5.00 5.0m bgl; Windowless sample hole complete at 5.00m bgl			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.20 3.90			
Scale 1:37.5						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings recorded above background. Damp at 2.1m, wet at 3.9m bgl. Window Sample Hole installed upon completion. Response zone 1.50 to 5.00m bgl.					
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.											

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS146

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389724.130 N 381303.430	Ground Level (m AOD) 82.180
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20	ES						82.08	0.10	MADE GROUND: ASPHALT.		TARMAC	
								(0.60)	MADE GROUND: Black sandy fine and medium angular to subrounded GRAVEL of predominantly asphalt and brick with occasional cobbles of brick.		GMG	
							81.48	0.70				
1.00	D (C)	1,1,1 0,1,2 N=4.						(0.70)	MADE GROUND: Dark greyish brown mottled black slightly sandy CLAY with occasional organic matter.		CMG	
							80.78	1.40				
								(0.50)	Brown slightly gravelly coarse SAND. Gravel is fine to coarse subrounded to well rounded of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
							80.28	1.90				
2.00	D (S)	1,1,0 1,1,0 N=2.						(0.40)	Soft locally firm brown slightly gravelly sandy CLAY. Gravel is fine to coarse subrounded to well rounded of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
							79.88	2.30				
								(0.70)	Soft to firm dark brownish grey slightly sandy silty CLAY with organic matter. (SUPERFICIAL DEPOSITS)		SUPD	
3.00	(C)	Sw,1,0 0,1,0 N=1.						79.18	3.00			
3.20	ES							(0.45)	Loose brown clayey sandy fine and medium, subrounded to well rounded GRAVEL. Gravel is fine and medium subrounded to well rounded of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
							78.73	3.45				
4.00	D (C)	2,2,3 2,4,5 N=14.						(1.55)	Medium dense brown slightly gravelly sandy CLAY. Gravel is fine and medium subangular to well rounded subangular of various lithologies. (GLACIAL DEPOSITS)		GDU	
5.00	(C)	2,4,5 6,6,6 N=23.					77.18	5.00	Windowless sample hole complete at 5.0m bgl.			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.00			
						General Remarks Window Sample complete at 5.00m bgl. No olfactory evidence of hydrocarbon contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.0m bgl. Hole backfilled upon completion.					
Scale 1:37.5			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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WINDOW SAMPLE LOG

Hole No.
WS147

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**27-06-14
27-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389562.640 N 381465.600	Ground Level (m AOD) 86.560
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm		
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology			
0.25	ES		0			86.41	0.15	MADE GROUND: ASPHALT.	X	TARMAC			
						86.26	0.30	MADE GROUND: Black slightly gravelly SAND with frequent ash. Gravel is fine and medium angular to subrounded of various lithologies.				X	GMG
						86.16	0.40	MADE GROUND: Light grey cobble of sandstone.					
1.00	(C)	2,2,2 2,2,3 N=9.				(0.80)		Loose orange fine SAND. (GLACIAL DEPOSITS)		GDU			
						85.36	1.20	Loose light whitish orange medium SAND. (GLACIAL DEPOSITS)					GDU
2.00	D (C)	1,2,2 2,2,2 N=8.				(1.20)		Loose brownish grey medium and coarse SAND. (GLACIAL DEPOSITS)		GDU			
						84.16	2.40	Loose brownish grey medium and coarse SAND. (GLACIAL DEPOSITS)					GDU
3.00	D (C)	1,2,1 2,2,2 N=7.				(0.90)		Medium dense reddish brown medium and coarse SAND. (GLACIAL DEPOSITS). Blowing conditions.		GDU			
						83.26	3.30	Medium dense reddish brown medium and coarse SAND. (GLACIAL DEPOSITS). Blowing conditions.					GDU
4.50	(C)	9,11,13 12,12,12 N=49.				(1.70)		5.00 Windowless sample hole complete at 5.00m bgl.					
						81.56	5.00	5.00 Windowless sample hole complete at 5.00m bgl.					

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.10			
General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings recorded above background. Groundwater encountered at approximately 3.10m bgl. Unable to install windowless sample hole due to blowing conditions.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS148

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Job No
70004430

Client
Harrow Estates Plc

Date
**27-06-14
27-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389508.660 N 381512.410	Ground Level (m AOD) 87.040
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
							86.84	0.20	MADE GROUND: ASPHALT.		TARMAC	
							86.54	0.30	MADE GROUND: Light grey sandy fine to coarse, very angular to subrounded GRAVEL of predominantly limestone		GMG	
							86.44	0.50				
							86.44	0.60	MADE GROUND: Dark brown slightly gravelly sandy CLAY. Gravel is fine and medium very angular to rounded of various lithologies. Loose grey fine and medium SAND. (GLACIAL DEPOSITS)		CMG	
0.80			0									
1.00	(C)	1,1,1 1,1,1 N=4.					85.74	1.30	Soft reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to well rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
1.40	ES		0									
1.50											GDU	
2.00	D (S)	1,1,1 3,3,4 N=11.						(1.40)				
							84.34	2.70	Medium dense light orangish reddish brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
3.00	D (C)	4,6,6 7,7,11 N=31.	0					(1.15)				
							83.19	3.85	Medium dense yellowish greenish brown mottled dark red and black slightly clayey SAND. (GLACIAL DEPOSITS)		GDU	
4.00	D (C)	3,4,4 3,3,3 N=13.						(0.70)				
4.20	ES						82.49	4.55	Medium dense whitish reddish brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
								(0.45)				
5.00	(C)	3,4,5 5,5,6 N=21.					82.04	5.00	5.00 5.0m bgl; Windowless sample hole complete at 5.00m bgl.			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.70			
						General Remarks Windowless sample hole complete at 5.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No groundwater strike encountered, seepage and wet strata from approximately 0.60m bgl. Hole installed to 5.00m bgl. Response zone from 1.0 to 5.0m bgl					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS149

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389778.530 N 381337.140	Ground Level (m AOD) 82.390
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm	
Depth	Type	Test Result	PID (ppmV)	HSV (kNm/m ²)	P Pen (kNm/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.50			0				82.14	0.25	MADE GROUND: CONCRETE.		CONC		
							81.99	0.40	MADE GROUND: Fine and medium dark grey mottled black GRAVEL of asphalt		GMG		
							81.74	0.65	Soft to firm dark brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU		
1.00	D (S)	3,3,2 2,6,4 N=14.	1					(1.55)	1.40 - 1.60 m bgl; Slight hydrocarbon odour at 1.4m to 1.6m.		GDU		
1.40	ES												
2.00	D (S)	3,4,3 4,4,5 N=16.					80.19	2.20	Medium dense light reddish brown medium SAND. (GLACIAL DEPOSITS)				
3.00	D (S)	3,2,5 4,6,7 N=22.						(2.80)			GDU		
3.90	ES D (S)	3,4,5 5,6,6 N=22.											
4.00													
5.00	(S)	3,3,4 3,4,5 N=16.					77.39	5.00	Windowless sample hole complete at 5.0m bgl.				

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.20			
						General Remarks Window Sample complete at 5.00m bgl. Olfactory evidence of hydrocarbon contamination observed at 1.4m to 1.6m. No radiological readings above background recorded. Groundwater seepage at 2.2m bgl. Hole backfilled upon completion.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS150

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389594.760 N 382472.200	Ground Level (m AOD) 91.970
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.50	ES			86			91.77	0.20	MADE GROUND: Grass over brown SILT with many rootlets. (TOPSOIL)		CMG	
							91.72	0.25	(MADE GROUND) Stiff brown CLAY		MG	
							91.61	0.36	Grass over brown slightly clayey SILT with abundant rootlets. (POSSIBLE RELICT TOPSOIL)		GDU	
1.00	ES (S)	2,2,3 2,3,3 N=11.		66			(0.54)		Firm to stiff brown speckled black slightly silty slightly gravelly clay with rootlets. Occasional grey mottling in places and rare sandy partings. (GLACIAL DEPOSITS)		GDU	
							91.07	0.90	Stiff medium strength brown CLAY with rare light grey mottling and rare black smearing. (GLACIAL DEPOSITS)		GDU	
2.00	(S)	2,3,3 4,5,4 N=16.		76			(1.70)		1.50 m bgl; becoming stiff high strength		GDU	
							102				GDU	
3.00	(S)	3,4,4 5,5,6 N=20.		96			114		Medium dense light brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	4,4,5 5,6,6 N=22.		114			62					
							89.37	2.60				
							87.97	4.00	4.00 Windowless sample complete at 4m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 4.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion. NOTE: WS153 NOT COMPLETED											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS151

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389535.000 N 382420.560	Ground Level (m AOD) 88.530
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50	ES			82			88.33	0.20	MADE GROUND: Grass over brown slightly clayey SILT with abundant rootlets. Rare subrounded fine gravel (TOPSOIL)		CMG	
							88.18	0.35	MADE GROUND: Firm brown slightly sandy CLAY with abundant rootlets and rare sandy pockets (<20mm)		CMG	
1.00	(S)	0,0,0 0,1,0 N=1.		20 30 16			87.83	0.70	MADE GROUND: Firm to stiff high strength brown CLAY		CMG	
							87.43	1.10	MADE GROUND: Pinkish grey very sandy angular fine to coarse GRAVEL of limestone		GMG	
1.50	ES			36 26			87.13	1.40	MADE GROUND: Soft low strength brown mottled grey CLAY with rare angular fine gravel.		CMG	
							86.53	2.00	Soft low strength dark grey organic CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
2.00	(S)	1,1,1 1,1,1 N=4.		21 32			86.13	2.40	Loose light brown silty fine SAND. (GLACIAL DEPOSITS)		GDU	
							85.70	2.83	Soft locally firm low strength brown CLAY. (GLACIAL DEPOSITS)		GDU	
3.00	(S)	2,3,3 3,3,4 N=13.					84.88	3.65	Medium dense light brown fine SAND. (GLACIAL DEPOSITS)		GDU	
							84.08	4.45	Medium dense light brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	3,3,4 4,3,4 N=15.					84.08	4.45	Windowless sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.90			
General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 0.9m bgl. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS152

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**30-06-14
30-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389467.210 N 382186.550	Ground Level (m AOD) 87.060
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50	ES						86.86	0.20	MADE GROUND: Grass over brown slightly sandy CLAY with many rootlets. (TOPSOIL)		CMG	
							86.71	0.35	MADE GROUND: Brown slightly sandy slightly gravelly CLAY. Gravel is coarse angular of brick.		GMG	
								(0.55)	MADE GROUND: Stiff brown slightly gravelly CLAY. Gravel is angular medium to coarse limestone and subrounded fine various lithologies.		MG	
1.00	ES (S)	1,1,1 1,1,1 N=4.		82					Stiff medium to high strength brown mottled grey slightly sandy slightly gravelly CLAY. (GLACIAL DEPOSITS)		GDU	
				74								
				98								
2.00	(S)	2,3,3 4,4,4 N=15.		114								
				122								
				70								
3.00	(S)	1,1,1 1,2,2 N=6.							Loose orange brown slightly gravelly fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
									3.00 - 4.00 No Recovery			
							84.46	2.60				
							83.06	4.00				
									4.00 Window sample complete at 4.0m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.0m bgl. Hole installed upon completion. Response zone 1.0 to 3.0m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS154

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**27-06-14
27-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Kinchington	Co-Ordinates (NGR) E 389691.010 N 382276.050	Ground Level (m AOD) 87.210
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20	ES		0				86.81	0.40	Grass over brown gravelly fine SAND with rootlets. Gravel is fine and medium subangular to rounded of various lithologies. (TOPSOIL)		TS	
0.60	ES		0						Medium dense orange and light brown fine and medium SAND. (GLACIAL DEPOSITS)			
1.00	(S)	3,3,4 4,5,5 N=18.						(2.10)			GDU	
2.00	D (S)	4,4,4 4,3,4 N=15.					84.71	2.50	1.80 m bgl; becoming grey 2.00 m bgl; becoming orange brown			
							84.51	2.70	Firm brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
							84.41	2.80	Loose brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
3.00	D (S)	1,1,1 2,1,1 N=5.						(1.20)	Soft becoming firm brown slightly silty slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
									3.60 m bgl; becoming damp			
4.00	D (S)	2,2,2 3,3,4 N=12.					83.21	4.00	Window Sample complete at 4.0m bgl.			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.60			
General Remarks Windowless sample hole complete at 4.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Slightly damp at 3.60m bgl. Hole installed upon completion. Response zone from 1.0 to 4.0m.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS155

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Kinchington	Co-Ordinates (NGR) E 389723.890 N 382426.770	Ground Level (m AOD) 88.860
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.20	ES	.					88.66	0.20	MADE GROUND: Grass over brown gravelly fine SAND with rootlets. Gravel is fine to coarse angular to subrounded of various lithologies (TOPSOIL).	[Cross-hatch pattern]	GMG	[Black bar]
0.40	ES	.				88.46	0.40					
0.70	ES	.					88.16	0.70	MADE GROUND: Light grey fine to coarse SAND and fine to coarse angular to subrounded GRAVEL of various lithologies.	[Cross-hatch pattern]	GMG	
1.00	(S)	3,4,4 5,5,6 N=20.						(0.30)	MADE GROUND: Black fine and medium angular and subangular GRAVEL of ash.	[Cross-hatch pattern]	GMG	
1.00	(S)							(0.80)	Medium dense brown fine and medium SAND. (GLACIAL DEPOSITS)	[Dotted pattern]	GDU	[Dotted pattern]
2.00	D (S)	4,4,5 6,6,6 N=23.					87.36	1.50	Medium dense brown silty fine SAND (GLACIAL DEPOSITS)	[Cross-hatch pattern]	GDU	[Cross-hatch pattern]
3.00	D (S)	2,2,2 1,2,2 N=7.						(2.50)	3.00 m bgl; loose	[Cross-hatch pattern]	GDU	[Cross-hatch pattern]
4.00	(S)	3,4,4 5,6,6 N=21.					84.86	4.00	3.80 m bgl; medium dense	[Cross-hatch pattern]	GDU	[Cross-hatch pattern]
									Window sample complete at 4.00m bgl.			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 4.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No groundwater encountered. Hole installed upon completion. Response zone 1.0 to 4.0m.											

Scale 1:37.5
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS156

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Kinchington	Co-Ordinates (NGR) E 389899.160 N 382412.410	Ground Level (m AOD) 86.000
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30	ES					85.50	0.50	MADE GROUND: Grass over dark brown slightly gravelly fine SAND with rootlets. Gravel is fine to coarse subangular to subrounded of various lithologies. (TOPSOIL)		GMG	
0.80	ES					85.30	0.70	Dark brown slightly gravelly clayey SAND with organic matter including rootlets. Gravel is fine to coarse angular to subrounded of various lithologies.		SUPD	
1.00	D (S)	2,1,1 1,2,1 N=5.				85.00	1.00	Light grey and brown fine to coarse SAND. (GLACIAL DEPOSITS)		GDU	
2.00	D (S)	1,0,1 1,1,1 N=4.				83.20	2.80	Firm locally soft light brown sandy CLAY. (GLACIAL DEPOSITS) 2.50 m bgl; becoming brown and grey		GDU	
3.00	D (S)	1,1,0 1,1,1 N=3.				82.00	4.00	Loose brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	1,2,1 2,2,2 N=7.						Window sample complete at 4.0m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.00			
General Remarks Windowless sample hole complete at 4.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.00m bgl. Hole installed upon completion. Reponse zone 1.0m to 4.0m.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS157

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
27-06-14
27-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Kinchington	Co-Ordinates (NGR) E 390029.450 N 382352.740	Ground Level (m AOD) 85.560
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kNm ²)	P Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50	ES						85.36	0.20	MADE GROUND: Crops over brown slightly gravelly SAND with rootlets. Gravel is fine to coarse angular to subrounded of various lithologies. (TOPSOIL)		GMG	
							(0.30)		MADE GROUND: Light grey and brown sandy fine to coarse angular GRAVEL of various lithologies.		GMG	
							85.06	0.50				
0.70	ES						84.96	0.60	MADE GROUND: Black angular fine and medium GRAVEL of ash.			
1.00	D (S)	1,1,1 1,2,1 N=5.						Loose orange brown slightly gravelly fine and medium SAND. Gravel is fine to coarse rounded and subrounded of various lithologies. (GLACIAL DEPOSITS)				
2.00	D (S)	1,0,1 1,0,1 N=3.						1.50 m bgl; gravel becoming coarse.		GDU		
3.00	D (S)	1,2,1 1,1,1 N=4.					82.66	2.90	Soft brown sandy CLAY. (GLACIAL DEPOSITS)		GDU	
							82.56	3.00	Window sample complete at 3.0m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.50			
<p>General Remarks</p> <p>Windowless sample hole complete at 3.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.50m bgl. Hole backfilled upon completion.</p>											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS158

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**04-07-14
04-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389900.850 N 382540.590	Ground Level (m AOD) 87.410
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20-0.50	ES					87.21	0.20	MADE GROUND: Hay over brown silty clay with rootlets (TOPSOIL)		CMG	
						87.01	0.40	MADE GROUND: Brown fine and medium sand with rare brick fragments		GMG	
0.50-0.90	ES					86.91	0.50	MADE GROUND: Brown and light brown fine sand with rare angular fine and medium brick gravel		GMG	
							(0.40)	Firm brown CLAY (GLACIAL DEPOSITS)		ALV	
1.00-1.45	D (S)	2,2,1 1,0,1 N=3.					(0.40)	Light brown fine and medium SAND (GLACIAL DEPOSITS)		ALV	
						86.01	1.40	Firm reddish brown CLAY (GLACIAL DEPOSITS)		ALV	
2.00-2.45	D (S)	SW, SW, 1 0,0,1 N=2.					(0.30)	Reddish brown slightly silty fine SAND. Becoming saturated (GLACIAL DEPOSITS)		ALV	
						85.41	2.00	Reddish brown sandy SILT (GLACIAL DEPOSITS)		ALV	
3.00-3.45	D (S)	SW, SW, 1 0,0,0 N=1.					(0.40)	Reddish brown fine SAND with localised pockets of clay. (GLACIAL DEPOSITS)		ALV	
						84.51	2.90	Reddish brown slightly silty fine SAND. (GLACIAL DEPOSITS)		ALV	
4.00-4.45	D (S)	1,2,1 2,2,2 N=7.					(0.50)	Reddish brown SILT. Very damp. (GLACIAL DEPOSITS)		ALV	
						83.81	3.60	Firm reddish brown CLAY (GLACIAL DEPOSITS)		ALV	
						83.61	3.80	Reddish brown fine occasionally medium SAND. (GLACIAL DEPOSITS)		ALV	
						82.96	4.45	Window sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.70			
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.70m bgl. Hole installed upon completion.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS159

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
04-07-14
04-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 390096.920 N 382459.160	Ground Level (m AOD) 85.940
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.00-0.30	ES	.				85.64	(0.30)	Brown sandy SILT with rootlets. (TOPSOIL)		GDU	
0.30-0.50	ES	.				85.44	0.30	Light grey sandy SILT. (GLACIAL DEPOSIT)		GDU	
1.00-1.45	D (S)	1,1,1 1,1,1 N=4.				84.04	1.90	Firm light brown mottled grey CLAY. (GLACIAL DEPOSIT)		GDU	
2.00-2.45	D (S)	1,0,0 1,0,0 N=1.				83.54	2.40	Light brown SILT. (GLACIAL DEPOSIT)		GDU	
3.00	(S)	1,0,1 0,1,0 N=2.				83.34	2.60	Brown and grey coarse SAND and fine subangular GRAVEL. (GLACIAL DEPOSIT)		GDU	
4.00-4.45	D (S)	1,2,2 3,2,2 N=9.				82.14	3.80	Soft to firm brown slightly silty CLAY. (GLACIAL DEPOSIT)		GDU	
						81.49	4.45	Brown fine and medium SAND. (GLACIAL DEPOSIT)		GDU	
								Window sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.90			
General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.90m bgl. Hole backfilled upon completion.											

Scale 1:37.5
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS160

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**27-06-14
27-06-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Kinchington	Co-Ordinates (NGR) E 389843.200 N 382247.550	Ground Level (m AOD) 85.460
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kNm ²)	P.Pen (kNm ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10	ES	.					85.26	0.20	MADE GROUND: Crops over brown gravelly fine to coarse SAND. Gravel is fine to coarse angular to subrounded of various lithologies. (TOPSOIL).		GMG	
							85.06	0.40	MADE GROUND: Orange brown gravelly fine to coarse SAND. Gravel is fine to coarse subangular to rounded of various lithologies.		GMG	
							84.96	0.50	MADE GROUND: Black fine and medium angular GRAVEL of ash.		GMG	
0.50	ES	.					84.86	0.60	MADE GROUND: Brown and orange fine to coarse SAND.		GMG	
								(0.90)	Soft brown and grey slightly gravelly sandy CLAY. Gravel is fine to coarse subangular to rounded of various lithologies. (GLACIAL DEPOSIT)		GDU	
1.00	D (S)	1,0,1 0,1,1 N=3.							1.20 m bgl; no gravel		GDU	
1.01	ES	.					83.96	1.50	Loose brown and light grey slightly gravelly fine and medium SAND. Gravel is rounded and subrounded of various lithologies. (GLACIAL DEPOSIT).		GDU	
							83.46	2.00	Loose reddish brown silty fine SAND (GLACIAL DEPOSIT).		GDU	
2.00	D (S)	2,2,2 2,1,1 N=6.						(2.00)	3.00 m bgl; becoming clayey.		GDU	
3.00	D (S)	1,1,1 0,1,0 N=2.						4.00	Window sample complete at 4.0m bgl.			
4.00	D (S)	1,1,1 1,1,1 N=4.					81.46					

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.00m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. No groundwater encountered. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.</p>											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS161

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389802.760 N 382140.400	Ground Level (m AOD) 85.400
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10-0.30	ES					85.05	0.35	Hay over brown slightly clayey slightly gravelly fine SAND. Gravel is fine and medium rounded of various lithologies. (TOPSOIL)		TS	
						84.75	0.65	Orange brown medium and coarse SAND. (SUPERFICIAL DEPOSITS)		SUPD	
0.70-0.80	ES					84.50	0.90	Stiff dark reddish brown sandy slightly gravelly organic CLAY. Gravel is angular of various lithologies. (SUPERFICIAL DEPOSITS)		SUPD	
1.00-1.45	D (S)	2,1,2 3,3,4 N=12.		50		84.30	1.10	Light brown medium to coarse SAND. (GLACIAL DEPOSITS)		GDU	
				70				Stiff medium and high strength orange brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular of various lithologies. (GLACIAL DEPOSITS)		GDU	
				78			(1.30)				
2.00-2.45	D (S)	2,2,2 2,2,2 N=8.		110		83.00	2.40	Reddish brown clayey fine SAND. (GLACIAL DEPOSITS)		GDU	
				106		82.70	2.70	Soft reddish brown CLAY. (GLACIAL DEPOSITS)		GDU	
3.00	(C)	1,1,1 0,1,2 N=4.				81.80	3.60	Loose brown slightly fine SAND. (GLACIAL DEPOSITS)		GDU	
4.00	(C)	1,1,2 1,2,3 N=8.				80.40	5.00	Window sample complete at 5.0m bgl.		GDU	

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.40			
						General Remarks Window Sample complete at 5.0m bgl. No olfactory or visual evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.4m bgl. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS162

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**01-07-14
01-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389564.110 N 381982.630	Ground Level (m AOD) 85.990
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.00-0.20	ES	.					85.89	0.10	MADE GROUND: Grass over brown slightly sandy SILT with rootlets.		CMG	
							85.79	0.20	(TOPSOIL)		GMG	
							85.64	0.35	MADE GROUND: Dark grey gravelly ash. Gravel is fine angular of coal.		SUPD	
0.35-0.95	ES	.							Firm dark brown organic CLAY. (SUPERFICIAL DEPOSITS)		GDU	
									Very loose light brown fine SAND. (GLACIAL DEPOSIT)			
0.75-0.95	ES	.						(0.95)				
1.00	(S)	1,0,1 0,1,0 N=2.										
1.30-1.50	ES	.					84.69	1.30	Very soft to firm brown slightly gravelly CLAY with localised pockets of fine and medium sand (<10mm). Gravel is fine to coarse subrounded of limestone and sandstone. (GLACIAL DEPOSIT)		GDU	
2.00	(S)	1,0,0 1,0,0 N=1.						(1.80)				
3.00	(S)	1,2,1 2,1,2 N=6.					82.89	3.10	Loose silty fine SAND. Blowing conditions from 3.1m bgl. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	1,2,1 1,1,1 N=4.						(1.35)				
							81.54	4.45	Window sample complete at 4.45m bgl			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone 1.0 to 4.0m.</p>											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS163

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
30-06-14
30-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389355.530 N 381969.190	Ground Level (m AOD) 86.160
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30	ES					85.96	0.20	MADE GROUND: Brown silty slightly gravelly CLAY with occasional ash. Gravel is fine of coal. (TOPSOIL)		CMG	
						85.76	0.40	MADE GROUND: Firm and stiff brown silty slightly gravelly CLAY. Gravel is fine angular of brick.		MG	
							(0.60)	Firm medium strength grey slightly sandy CLAY (GLACIAL DEPOSITS)		GDU	
0.50	ES										
1.00	(S)	1,2,2 2,3,3 N=10.				85.16	1.00	Loose to medium dense light brown fine and medium SAND. (GLACIAL DEPOSITS)			
2.00	(S)	1,2,2 2,2,2 N=8.					(2.45)				GDU
3.00	(S)	1,2,1 2,1,2 N=6.									
						82.71	3.45	Window sample complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.00			
General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.0m bgl. Hole backfilled upon completion.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS164

Project
Woodford Aerodrome

Sheet
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Job No
70004430

Client
Harrow Estates Plc

Date
30-06-14
30-06-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389160.030 N 381965.380	Ground Level (m AOD) 85.410
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
						85.21	0.20	MADE GROUND: Grass over brown slightly sandy clay with many rootlets. (TOPSOIL)		CMG	
						84.96	0.45	MADE GROUND: Grey very sandy fine to coarse angular GRAVEL of limestone.		MG	
0.60	ES							Firm low and medium strength grey very silty CLAY. (GLACIAL DEPOSITS)		GDU	
1.00	(S)	1,1,1 1,1,1 N=4.				(1.15)					
2.00	ES (S)	1,1,1 1,1,1 N=4.				83.81	1.60	Firm to stiff brown and light grey mottled CLAY. (GLACIAL DEPOSITS)		GDU	
3.00	(S)	1,1,2 1,2,1 N=6.				82.71	2.70	Soft and firm brown slightly silty CLAY. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	3,4,4 5,5,6 N=20.				81.71	3.70	Light brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
						80.96	4.45	Windowless sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.70			
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.7m bgl. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.</p>											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS165

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
01-07-14
01-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389278.880 N 381811.100	Ground Level (m AOD) 87.490
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30-0.40	ES	.					87.29	0.20	Grey silt with rootlets. (TOPSOIL)		TS	
								(0.34)	Firm and stiff brown mottled grey slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
0.55-0.65	ES	.					86.95	0.54	Grey fine to medium SAND with black staining at base. (GLACIAL DEPOSITS)		GDU	
1.00	(S)	1,2,2 2,3,4 N=11.							Medium dense light brown fine and medium SAND. (GLACIAL DEPOSITS)			
2.00	(S)	2,2,3 4,4,4 N=15.						(3.80)			GDU	
3.00	(S)	3,2,3 3,3,4 N=13.										
4.00	(S)	3,3,3 4,2,4 N=13.										
							83.04	4.45	Window sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole backfilled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS166

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
01-07-14
01-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389471.740 N 381848.570	Ground Level (m AOD) 85.570
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SAMPLES & TESTS						STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.30-0.50	ES					85.32	0.25	MADE GROUND: Brown slightly sandy slightly gravelly SILT with rootlets. Gravel is fine to medium angular of ash and clinker.		TS	
							(0.85)	Soft to firm organic CLAY with localised lenses of fibrous peat. (SUPERFICIAL DEPOSITS)		SUPD	
1.00	(S)	Sw,Sw,1 0,0,0 N=1.				84.47	1.10	Light brown medium to coarse SAND. Becoming wet. (GLACIAL DEPOSITS)		GDU	
1.10-1.30	ES					84.07	1.50	Light brown silty fine SAND (GLACIAL DEPOSITS)		GDU	
						83.77	1.80	Light brown silty fine SAND (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,1,1 0,1,2 N=4.				83.07	2.50	Soft and very soft light grey CLAY (GLACIAL DEPOSITS)		GDU	
3.00	(S)	1,2,1 2,1,2 N=6.					(1.95)	Loose light brown fine and medium SAND. Blowing conditions experienced from 2.5m bgl. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	1,1,2 1,2,1 N=6.				81.12	4.45	Window sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.50			
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered below 1.5m bgl. Hole installed upon completion. Response zone from 0.5 to 3.0m bgl.</p>											

Scale 1:37.5 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS167

Project
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Job No
70004430

Client
Harrow Estates Plc

Date
01-07-14
01-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389530.660 N 381787.190	Ground Level (m AOD) 85.260
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.00-0.20	ES	.					84.96	(0.30) 0.30	MADE GROUND: Brown slightly sandy slightly gravelly SILT with rootlets. Gravel is fine and medium angular of ash and clinker. (TOPSOIL)		CMG	
						84.76	0.50	MADE GROUND: Firm brown CLAY with rare ash		CMG		
0.50-0.85	ES	.				84.41	(0.35) 0.85	Light brown clayey fibrous PEAT. (SUPERFICIAL DEPOSITS)		PEAT		
						84.26	1.00	Firm brown CLAY with rootlets. (SUPERFICIAL DEPOSITS)		SUPD		
1.00	(S)	1,0,0 0,1,0 N=1.						(0.70)	Brown fibrous PEAT.		PEAT	
2.00	(S)	1,0,0 1,0,0 N=1.							Soft light grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
3.00	(S)	1,2,1 2,1,1 N=5.						(2.75)				
4.00	(S)	1,1,1 1,1,2 N=5.										
							80.81	4.45	Window sample complete at 4.45m bgl			

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone from 1 to 3m bgl.					
Scale 1:37.5			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14



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WINDOW SAMPLE LOG

Hole No.
WS168

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389597.380 N 381833.900	Ground Level (m AOD) 85.370
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20-0.40	ES	.				85.17	0.20	MADE GROUND: Brown occasional black sandy SILT with rootlets. (TOPSOIL)		CMG	
0.40-0.70	ES	.				84.97	0.40	MADE GROUND: Black fine and medium subangular and subrounded GRAVEL with frequent ash. Gravel of clinker.		GMG	
0.70-1.10	ES	.				84.67	0.70	MADE GROUND: Grey silty slightly gravelly CLAY. Gravel is medium and coarse angular to subrounded of coal and sandstone		CMG	
1.00	(S)	SW,SW,SW SW,1,0 N=0.					(1.20)	Brown fibrous PEAT.		PEAT	
2.00	(S)	1,0,0 0,0,0 N=0.				83.47	1.90	Very soft light grey CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
3.00	(S)	1,0,1 1,2,3 N=7.				82.37	3.00	Light greyish brown fine to medium SAND. (GLACIAL DEPOSIT)		GDU	
						81.92	3.45	Window sample complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
						General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole not installed.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS169

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389691.350 N 381902.370	Ground Level (m AOD) 85.430
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20-0.50	ES	.				85.23	0.20	Grass over clayey silt with rootlets. (TOPSOIL)		TS	
							(0.30)	Light brown fine and medium SAND. (SUPERFICIAL DEPOSITS)		SUPD	
0.50-0.80	ES	.				84.93	0.50	Very soft grey slightly sandy silty CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
							(0.30)	Very soft brown CLAY. (SUPERFICIAL DEPOSITS)		SUPD	
1.00	(S)	SW,SW,1 0,0,0 N=1.									
2.00	(S)	SW,SW,1 0,0,0 N=1.					(2.65)			SUPD	
3.00	(S)	1,0,1 0,1,0 N=2.									
						81.98	3.45	Window sample complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole not installed.</p>											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS170

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Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389653.420 N 381828.670	Ground Level (m AOD) 85.660
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SAMPLES & TESTS						STRATA						Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology		
0.00-0.20	ES	.				85.46	0.20	Grass over brown slightly clayey slightly sandy SILT. (TOPSOIL)		TS		
0.20-0.60	ES	.				85.06	(0.40) 0.60	Firm and stiff greyish brown silty CLAY. (GLACIAL DEPOSIT)		GDU		
							(0.50)	Stiff reddish brown slightly sandy CLAY. (GLACIAL DEPOSIT)		GDU		
1.00	(S)	1,2,1 2,1,2 N=6.				84.56	1.10	Loose reddish brown fine and medium SAND. (GLACIAL DEPOSIT)				
2.00	(S)	1,1,1 1,1,1 N=4.					(3.35)			GDU		
3.00	(S)	1,1,1 1,1,1 N=4.										
4.00	(S)	1,1,2 1,2,1 N=6.										
						81.21	4.45	Window sample complete at 4.45m bgl				

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100814 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
<p>General Remarks</p> <p>Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole installed upon completion. Response zone from 0.8 to 3.8m bgl.</p>											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS171

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389612.240 N 381696.670	Ground Level (m AOD) 85.320
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (m AOD)	Depth (Thickness)	Description	Legend	Geology	
0.00-0.20	ES	.					85.12	0.20	Firm brown slightly sandy slightly gravelly CLAY with rootlets. Gravel is sub rounded fine sandstone and coal (TOPSOIL)		TS	
0.20-0.70	ES	.					84.92	0.40	Brown organic CLAY. (SUPERFICIAL DEPOSITS)		GDU	
							84.62	(0.30) 0.70	Firm brown slightly silty CLAY. (GLACIAL DEPOSIT)		GDU	
1.00	(S)	2,2,2 1,0,1 N=4.						(1.90)	Loose brownish grey fine and medium SAND. (GLACIAL DEPOSIT)		GDU	
2.00	(S)	1,0,1 1,2,1 N=5.										
3.00	(S)	1,0,1 1,1,1 N=4.					82.72	2.60	Firm brown mottled grey CLAY. (GLACIAL DEPOSIT)		GDU	
								(0.85)				
							81.87	3.45	Window sample complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater not encountered. Hole not installed.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS172

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
02-07-14
02-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389607.410 N 381602.920	Ground Level (m AOD) 87.360
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.00-0.20	ES	.				87.16	0.20	MADE GROUND: Brown sandy CLAY with rootlets and occasional ash. (TOPSOIL)		CMG	
0.20-0.40	ES	.				86.96	0.40	Brown clayey silty fine SAND. (GLACIAL DEPOSITS)		GDU	
0.40-0.60	ES	.	0				(0.55)	Medium dense orange brown fine SAND. (GLACIAL DEPOSITS)		GDU	
0.50						86.41	0.95				
1.00	(S)	2,2,3 3,4,3 N=13.	0					Orange brown fine and medium SAND. Blowing conditions encountered from 1.8m bgl. (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,0,1 1,1,2 N=5.					(2.05)				
						84.36	3.00	3.00 Window sample complete at 3.0m bgl			



08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.80			
						General Remarks Windowless sample hole complete at 3.0m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Windowless sample hole installed upon completion. Response zone from 1.0 to 3.0m bgl.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS173

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**01-07-14
01-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S McGeever	Co-Ordinates (NGR) E 389815.780 N 381608.570	Ground Level (m AOD) 84.340
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.20	ES		0			84.24	0.10	MADE GROUND: Brown sandy CLAY with rootlets. (TOPSOIL)		TS	
						84.04	0.30	MADE GROUND: Brown mottled black gravelly SAND. Gravel is fine very angular to rounded of predominantly coal, clinker and slag.		GMG	
1.00	D (S)	1,1,1 0,1,2 N=4.	0			(0.80)		Firm and stiff brown slightly sandy gravelly CLAY. Gravel is fine and medium subangular to well rounded of various lithologies.		GDU	
						83.24	1.10	Firm reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium subangular to rounded of various lithologies.		GDU	
2.00	D (S)	1,1,2 2,2,2 N=8.				(2.30)				GDU	
3.00	D (S)	8,7,8 10,14,14 N=46.								GDU	
3.50	ES		0			80.94	3.40	3.20 m bgl; becoming stiff.		GDU	
4.00	(S)	10,10,12 13,14,11 N=50/ 0.285.					(1.60)			GDU	
						79.34	5.00	Window sample complete at 5.0m bgl			

08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.40			
						General Remarks Windowless sample hole complete at 4.0m bgl. No olfactory evidence of hydrocarbon contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.40m bgl. Windowless sample hole backfilled upon completion.					
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS174

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389872.140 N 381685.920	Ground Level (m AOD) 84.750
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SAMPLES & TESTS							STRATA					Install / Backfill
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.10-0.30	ES	.						(0.45)	Grass over slightly clayey silty dark brown fine SAND with rootlets. (TOPSOIL)		TS	
0.30	ES	.					84.30	0.45				
0.50-0.70	ES	.		50					Firm medium strength slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded to subangular of various lithologies. (GLACIAL DEPOSITS)			
0.70	D	.		52								
1.00	(C)	1,1,2 1,2,3 N=8.		40				(1.35)			GDU	
1.70	D	.		70		↓	82.95	1.80	Very loose reddish brown clayey fine SAND with localised lenses very soft sandy clay. (GLACIAL DEPOSITS)			
2.00	(C)	0,1,0 0,1,0 N=1.						(2.00)			GDU	
3.00	(C)	0,0,1 0,0,1 N=2.										
4.00	(C)	1,0,1 0,1,1 N=3.					80.95	3.80	Red brown fine SAND. (GLACIAL DEPOSITS)		GDU	
							80.75	4.00				
								(0.80)	Very loose gravelly coarse SAND. Gravel is fine angular to rounded of various lithologies. (GLACIAL DEPOSITS) 4.00 - 5.00 50% Recovery		GDU	
							79.95	4.80				
							79.85	4.90	Soft very sandy red brown CLAY. (GLACIAL DEPOSITS)		GDU	
5.00	(C)	3,4,5 4,4,3 N=16.						(0.55)	Medium dense gravelly coarse SAND. Gravel is fine angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
							79.30	5.45	Windowless sample complete at 5.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.80			
General Remarks Windowless sample hole complete at 5.45m bgl. No ofactory or visual evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.8m bgl. Hole installed upon completion. Response zone 0.8 to 4.8m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
WS175

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 389862.080 N 381770.810	Ground Level (m AOD) 85.280
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50-0.60	ES	.		100			84.83	0.45	Grass over slightly gravelly organic CLAY. Gravel is fine and medium angular of sandstone. (TOPSOIL)		TS	
1.00-1.00	D (C)	1,1,1 0,1,2 N=4.		78			83.78	1.05	Stiff high strength reddish brown mottled green grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies.		GDU	
1.50-1.60	ES	.		40					Firm locally soft medium strength very sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	(C)	1,1,2 2,2,2 N=8.		48					2.50 m bgl; becoming stiff		GDU	
2.60	D	.		50							GDU	
3.00	(C)	8,7,8 10,14,14 N=46.		42							GDU	
4.00	(C)	10,10,12 13,14,11 N=50/ 0.285.		68			81.78	3.50	Orange brown fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
							81.43	3.85	Dense orange brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
							80.83	4.45	Window sample hole complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.50			
General Remarks Window Sample borehole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.5m bgl as seepage. Hole backfilled upon completion.											

Scale 1:37.5

Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.



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WINDOW SAMPLE LOG

Hole No.
WS176

Project
Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-13
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389916.060 N 382067.750	Ground Level (m AOD) 85.240
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.10-0.20	ES		0			84.79	0.45	Grass over soft brown slightly gravelly organic CLAY . Gravel is fine and medium angular of sandstone. (TOPSOIL)		TS	
0.50 0.50-0.60	D ES		0	110		84.79	0.45	Stiff high strength orange brown mottled grey slightly sandy slightly gravelly CLAY. (GLACIAL DEPOSITS)		GDU	
1.00-3.00	B (C)	3,4,4 4,4,3 N=15.		100		84.14	1.10	Medium dense brown fine SAND. (GLACIAL DEPOSITS)		GDU	
2.00	(C)	1,2,2 3,3,4 N=12.				83.54	1.70	Soft greenish grey sandy CLAY. (GLACIAL DEPOSITS)		GDU	
						83.34	1.90	Reddish brown fine SAND. (GLACIAL DEPOSITS)		GDU	
						83.14	2.10	Soft low strength reddish brown very sandy CLAY. (GLACIAL DEPOSITS)		GDU	
						82.94	2.30	Reddish brown slightly clayey fine SAND. (GLACIAL DEPOSITS)		GDU	
3.00	(C)	2,2,3 2,2,3 N=10.				82.44	2.80	Light brown medium SAND. (GLACIAL DEPOSITS)		GDU	
						82.34	2.90	Medium dense orange brown medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
						81.24	4.00	Window sample complete at 4.0m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								1.95 3.00			
Scale 1:37.5						Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.					
General Remarks						Window Sample borehole terminated at 4.0m bgl with sampler stuck in casing. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 1.95 and 3.0m bgl as seepage. Hole installed upon completion. Response zone 1.0 to 4.0m bgl.					



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WINDOW SAMPLE LOG

Hole No.
WS177

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**02-07-14
02-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389997.460 N 382157.000	Ground Level (m AOD) 83.970
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SAMPLES & TESTS							STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.50-0.60	ES	.	0	76			83.52	0.45	Grass over soft brown slightly gravelly organic CLAY . Gravel is fine and medium angular of sandstone. (TOPSOIL)		TS	
1.00	D (C)	4,5,4 3,4,4 N=15.		70			82.97	1.00	Stiff medium strength brown mottled grey slightly sandy slightly gravelly fissured CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
2.00	D (C)	2,3,3 3,3,4 N=13.		70				(2.10)	Stiff high strength brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
3.00	D (C)	1,1,1 1,1,1 N=4.		68							GDU	
3.20-3.40	ES	.	0	60			80.87	3.10	Loose brown gravelly medium and coarse SAND. Gravel is fine subangular and subrounded of various lithologies. (GLACIAL DEPOSITS)		GDU	
4.00	(C)	1,0,1 2,1,2 N=6.		76				(2.35)			GDU	
5.00	(C)	1,2,2 3,2,2 N=9.		82							GDU	
				70			78.52	5.45	5.45m bgl; Window sample hole complete at 5.45m bgl			

08 WSP WINDOW SAMPLE LOG - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								3.10			
General Remarks Windowless sample hole complete at 5.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 3.10m bgl. Hole backfilled upon completion.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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WINDOW SAMPLE LOG

Hole No.
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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
**01-07-14
01-07-14**

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389319.080 N 381699.290	Ground Level (m AOD) 88.580
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SAMPLES & TESTS						STRATA					Install / Backfill	
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Water	Elev. (m AOD)	Depth (Thickness)	Description	Legend	Geology	Dia. 50 mm
0.00-0.20	ES	.						88.38	0.20	Brown silty fine SAND. (TOPSOIL)		
0.20-0.30	ES	.					88.03	(0.35)	Brown slightly clayey slightly sandy SILT. (GLACIAL DEPOSITS)		GDU	
0.50-0.70	ES	.				↓		0.55	Medium dense light brownish grey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
1.00	(S)	1,0,2 3,3,4 N=12.					(1.00)					
						↓	87.03	1.55	Loose becoming medium dense light pinkish grey fine and medium SAND. (GLACIAL DEPOSITS)		GDU	
2.00	(S)	1,1,1 1,1,1 N=4.					(1.90)					
3.00	(S)	3,4,4 4,4,5 N=17.					85.13	3.45	Window sample complete at 3.45m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.70 1.80			
						General Remarks Windowless sample hole complete at 3m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered 0.70m - 1.80m bgl. Windowless sample hole installed upon completion. Response zone 1.0-3.0m bgl.					
Scale 1:37.5			Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.								



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WINDOW SAMPLE LOG

Hole No.
WS179

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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
03-07-14
03-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By J Watson	Co-Ordinates (NGR) E 389687.430 N 382085.290	Ground Level (m AOD) 85.230
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. 50 mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30-0.40	ES					85.08	0.15	Soft dark brown slightly clayey organic fine SAND. (TOPSOIL)		TS	
							(1.05)	Orangish brown medium to coarse slightly gravelly SAND. Gravel is fine subrounded to rounded of various lithologies.		ALV	
1.00-1.45	D (S)	1,1,1 1,2,1 N=5.				84.03	1.20	Soft to firm low strength sandy clayey amorphous PEAT.		SUPD	
1.20-1.40	ES						(0.40)				
2.00-2.45	D (S)	3,4,5 5,4,5 N=19.					(1.30)	Medium dense greenish grey medium and coarse SAND. (GLACIAL DEPOSITS)		GDU	
3.00-3.45	D (S)	1,1,1 1,1,1 N=4.				82.33 82.23	2.90 3.00	Soft greenish grey silty sandy CLAY. (GLACIAL DEPOSITS) Very loose to loose brown sandy SILT. (GLACIAL DEPOSITS)		GDU	
4.00	(S)	1,1,1 1,1,1 N=4.					(1.45)			GDU	
						80.78	4.45	Window sample complete at 4.45m bgl			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								0.80 3.00			
General Remarks Windowless sample hole complete at 4.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 0.80 and 3.00m bgl. Hole installed upon completion. Response zone 0.50m to 4m bgl.											
Scale 1:37.5		Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.									



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Woodford Aerodrome

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Job No
70004430

Client
Harrow Estates Plc

Date
04-07-14
04-07-14

Contractor / Driller Dynamic Sampling Ltd	Method/Plant Used Premier Tracker Compact 110	Logged By S Weston	Co-Ordinates (NGR) E 390024.390 N 382420.700	Ground Level (m AOD) 87.080
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SAMPLES & TESTS						STRATA					Install / Backfill Dia. mm
Depth	Type	Test Result	PID (ppmV)	HSV (kN/m ²)	P Pen (kN/m ²)	Elev. (mAOD)	Depth (Thickness)	Description	Legend	Geology	
0.30-0.60	ES	.				86.78	(0.30) 0.30	MADE GROUND: Brown slightly clayey slightly sandy SILT. (TOPSOIL)		GMG	
							(0.70) 0.70	MADE GROUND: Firm brown slightly gravelly CLAY with occasional ash.		CMG	
1.00-1.45	D (S)	1,2,1 2,2,2 N=7.				86.08	1.00	MADE GROUND: Soft and firm grey slightly gravelly silty CLAY. Gravel is fine to coarse angular of concrete.		CMG	
1.00-1.30	ES	.				85.78	(0.30) 1.30				
1.50-1.80	ES	.					(1.20) 1.20	Firm grey mottled brown slightly sandy CLAY. (GLACIAL DEPOSITS)		GDU	
2.00-2.45	D (S)	1,1,1 1,2,2 N=6.				84.58	2.50	Brown SILT. Becoming wet. (GLACIAL DEPOSITS)		GDU	
3.00-3.45	D (S)	1,0,0 1,0,0 N=1.				83.63	(0.95) 3.45				
Window sample complete at 3.45m bgl											

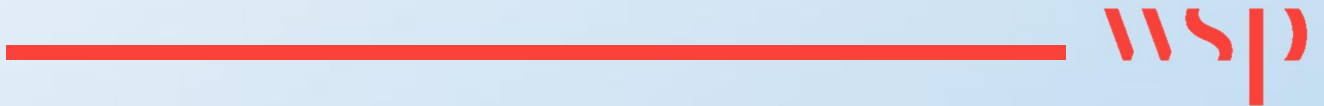
08 WSP WINDOW SAMPLE LOG - WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPTEMPLATE1.03.GDT 11/12/14

Hole Diameter			Recovery			Water Strikes					
Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
								2.70			
General Remarks Windowless sample hole complete at 3.45m bgl. No visual or olfactory evidence of contamination observed. No radiological readings above background recorded. Groundwater encountered at 2.70m bgl. Hole backfilled upon completion.											

Scale 1:37.5
Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.

Appendix D

REMEDICATION / VALIDATION
CRITERIA



Woodford Aerodrome DP4 North Remediation Strategy - Appendix D

Soil Remediation / Validation Criteria - WSP, June 2021

Attribute	Remediation / Validation Qualitative Criteria
Chemical / hydrocarbon odour	No odours for soils within 0.6m of finished levels. Mild odours may be acceptable for deeper soils if associated risks sufficiently characterised and concentrations comply with those presented below
Colouration	No unnatural colouration for soils within 0.6m of finished levels. Certain colouration may be acceptable for deeper soils if associated risks sufficiently characterised and concentrations comply with below
Asbestos fibres in soils	No asbestos detected in soil to be placed within 0.6m of finished level in areas of soft landscaping. Low level asbestos content could be acceptable beneath buildings / roads / hardstanding - to be confirmed by Environmental Consultant
Pieces of asbestos containing materials	Not acceptable to remain on site without detailed assessment based on proposed use
Radiological	Consult radiological advisor

Concentrations based on WSP Residential (with Home Grown Veg) GAC 2.5% SOM

Group	Chemical / TPH Fraction	Soil Remediation / Validation Criteria (mg/kg)
Aliphatics and Aromatics (TPH CWG)	Aliphatic C05-C06	78
	Aliphatic C06-C08	231
	Aliphatic C08-C10	65
	Aliphatic C10-C12	324
	Aliphatic C12-C16	2220
	Aliphatic C16-C35	69500
	Aliphatic C35-C44	69500
	Aromatic C05-C07	145
	Aromatic C07-C08	296
	Aromatic C08-C10	83
	Aromatic C10-C12	174
	Aromatic C12-C16	314
	Aromatic C16-C21	484
	Aromatic C21-C35	1100
	Aromatic C35-C44	1100
	BTEX and Fuel Additives	1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene		12
1,3,5-Trimethylbenzene		12
Benzene		0.18
Ethylbenzene		111
Methyl t-butylether (MTBE)		108
Toluene		296
Chlorinated Aliphatics	Xylene	133
	1,1,1,2-Tetrachloroethane	2.8
	1,1,1-Trichloroethane	42
	1,1,2,2-Tetrachloroethane	3.5
	1,1,2-Trichloroethane	1.6
	1,1-Dichloroethane	5.5
	1,1-Dichloroethene	0.57
	1,2-Dichloroethane	0.011
	Cis 1,2-Dichloroethene	0.27
	1,2-Dichloropropane	0.06
	Chloroethane	16
	Chloroform	1.7
	Chloromethane	0.014
	Carbon tetrachloride	0.79
	Dichloromethane	1.1
	Hexachloroethane	0.65
	Hexachlorobutadiene	0.75
	Trans-1,2-Dichloroethene	0.48
	Tetrachloroethene (PCE)	0.39
	Tetrachloromethane	0.79
Trichloroethene (TCE)	0.034	
Vinyl chloride	0.00087	
Metals	Arsenic	32
	Cadmium	12
	Chromium III	1590
	Hexavalent Chromium	4.5
	Copper	2490
	Mercury	39
	Mercury - Elemental	0.55
	Methyl Mercury	7.5
	Nickel	126
	Lead	134
	Selenium	258
	Zinc	3860
	PAH	Benzo (a) pyrene #
Naphthalene		5.6
VOC	iso-Propylbenzene	37
	n-Propylbenzene	111
	iso-Propylbenzene	37
	n-Propylbenzene	111
PCB	Sum of 7 congeners	0.29

Bap used as surrogate marker for other PAHs (apart from naphthalene)- only applicable when concentration profile of PAH16 compounds complies with that defined in the 'surrogate marker' methodology in DEFRA SP1010 BaP appendix - likely to be applicable for hydrocarbons identified previously on the Woodford Aerodrome site.

Appendix E

GENERAL LIMITATIONS



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

GENERAL

1. WSP UK Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.
2. Unless explicitly agreed otherwise, in writing, this report has been prepared under WSP UK Limited standard Terms and Conditions as included within our proposal to the Client.
3. Project specific appointment documents may be agreed at our discretion and a charge may be levied for both the time to review and finalise appointments documents and also for associated changes to the appointment terms. WSP UK Limited reserves the right to amend the fee should any changes to the appointment terms create an increase risk to WSP UK Limited.
4. The report needs to be considered in the light of the WSP UK Limited proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

Coverage: *This section covers reports with the following titles or combination of titles: phase 1; desk top study; geo environmental assessment; development appraisal; preliminary environmental risk assessment; constraints report; due diligence report; geotechnical development review; environmental statement; environmental chapter; project scope summary report (PSSR), program environmental impact report (PEIR), geotechnical development risk register; and, baseline environmental assessment.*

5. The works undertaken to prepare this report comprised a study of available and easily documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the Site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. WSP UK Limited cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.
6. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, WSP UK Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly.
7. It should be noted that any risks identified in this report are perceived risks based on the information reviewed. Actual risks can only be assessed following intrusive investigations of the site.
8. WSP UK Limited does not warrant work / data undertaken / provided by others.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

INTRUSIVE INVESTIGATION REPORTS

Coverage: *The following report titles (or combination) may cover this category of work: geo environmental site investigation; geotechnical assessment; GIR (Ground Investigation reports); preliminary environmental and geotechnical risk assessment; and, geotechnical risk register.*

9. The investigation has been undertaken to provide information concerning either:
 - i. The type and degree of contamination present at the site in order to allow a generic quantitative risk assessment to be undertaken; or
 - ii. Information on the soil properties present at the site to allow for geotechnical development constraints to be considered.
10. The scope of the investigation was selected on the basis of the specific development and land use scenario proposed by the Client and may be inappropriate to another form of development or scheme. If the development layout was not known at the time of the investigation the report findings may need revisiting once the development layout is confirmed.
11. For contamination purposes, the objectives of the investigation are limited to establishing the risks associated with potential contamination sources with the potential to cause harm to human health, building materials, the environment (including adjacent land), or controlled waters.
12. For geotechnical investigations the purpose is to broadly consider potential development constraints associated with the physical property of the soils underlying the site within the context of the proposed future or continued use of the site, as stated within the report.
13. The amount of exploratory work, soil property testing and chemical testing undertaken has necessarily been restricted by various factors which may include accessibility, the presence of services; existing buildings; current site usage or short timescales. The exploratory holes completed assess only a small percentage of the area in relation to the overall size of the Site, and as such can only provide a general indication of conditions.
14. The number of sampling points and the methods of sampling and testing do not preclude the possible existence of contamination where concentrations may be significantly higher than those actually encountered or ground conditions that vary from those identified. In addition, there may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.
15. The inspection, testing and monitoring records relate specifically to the investigation points and the timeframe that the works were undertaken. They will also be limited by the techniques employed. As part of this assessment, WSP UK Limited has used reasonable skill and care to extrapolate conditions between these points based upon assumptions to develop our interpretation and conclusions. The assumption made in forming our conclusions is that the ground and groundwater conditions (both chemically and physically) are the same as have been encountered during the works undertaken at the specific points of investigation. Conditions can change between investigation points and these interpretations should be considered indicative.
16. The risk assessment and opinions provided are based on currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values. Specific assumptions associated



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.

17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.
18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.
19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.
20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

21. On 1st April 2010, BS EN 1997-1:2004 (Eurocode 7: Geotechnical Design – Part 1) became the mandatory baseline standard for geotechnical ground investigations.
22. In terms of geotechnical design for foundations, slopes, retaining walls and earthworks, EC7 sets guidance on design procedures including specific guidance on the numbers and spacings of boreholes for geotechnical design, there are limits to methods of ground investigation and the quality of data obtained and there are also prescriptive methods of assessing soil strengths and methods of design. Unless otherwise explicitly stated, the work has not been undertaken in accordance with EC7. A standard geotechnical interpretative report will not meet the requirements of the Geotechnical Design Report (GDR) under Eurocode 7. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. The report is likely to represent a Ground Investigation Report (GIR) under the Eurocode 7 guidance.

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

24. The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.
25. Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

26. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. All the relevant information needs to be provided to allow for a GDR to be produced.

MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

27. These reports are factual in nature and comprise monitoring, normally groundwater and ground gas and data provided by contractors as part of an earthworks or remedial works.
28. The data is presented and will be compared with assessment criteria.



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