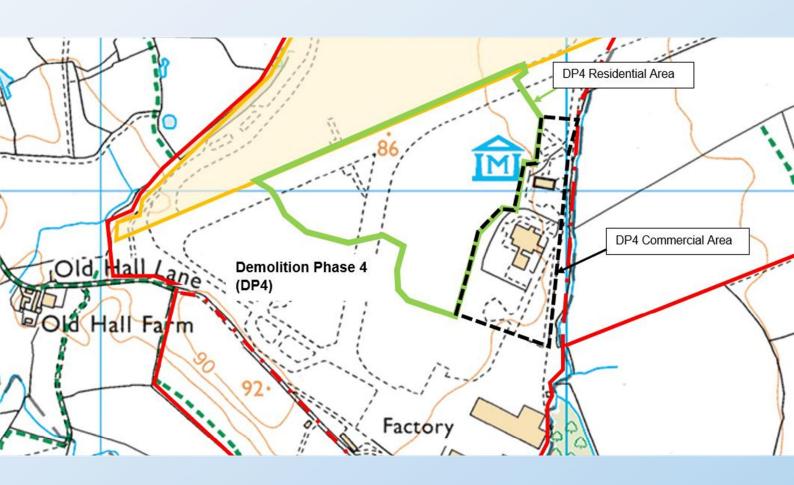


### Harrow Estates Plc

# REMEDIATION STRATEGY - DEMOLITION PHASE 4 NORTH

Woodford Aerodrome





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# REMEDIATION STRATEGY - DEMOLITION PHASE 4 NORTH

Woodford Aerodrome

TYPE OF DOCUMENT (VERSION) CONFIDENTIAL

PROJECT NO. 70079453 OUR REF. NO. 11822

**DATE: JUNE 2021** 



### Harrow Estates Plc

# REMEDIATION STRATEGY - DEMOLITION PHASE 4 NORTH

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.

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- 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.

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#### **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.

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#### 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	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.
	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.
Brief Site Description	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.
	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).
	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.
	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.
	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.

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Attribute	Details
Previous Site Use and Areas of Potential Concern	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.  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:
	<ul> <li>APC21 – above ground gas oil and diesel storage tanks</li> <li>APC23 – mound of soil in the commercial area</li> </ul>
Environmental Setting	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.
	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.
	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.
	There may be some degree of hydraulic connectivity between the two units.
	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.
	Ground levels fall gently towards the south, towards Red Brook in the south. Red Brook flows south, eventually joining the River Dean.



## 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

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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.

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

	1	Reporte	ed in 2014 Report		Action Taken After 2014 Re	eport
APC	Location	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.

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#### 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 contactor 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

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## 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)

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- 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.

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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** 

REMEDIATION STRATEGY - DEMOLITION PHASE 4 NORTH

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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.

REMEDIATION STRATEGY - DEMOLITION PHASE 4 NORTH Project No.: 70079453 | Our Ref No.: 11822

# **Appendix A**

FIGURES AND MASTERPLAN





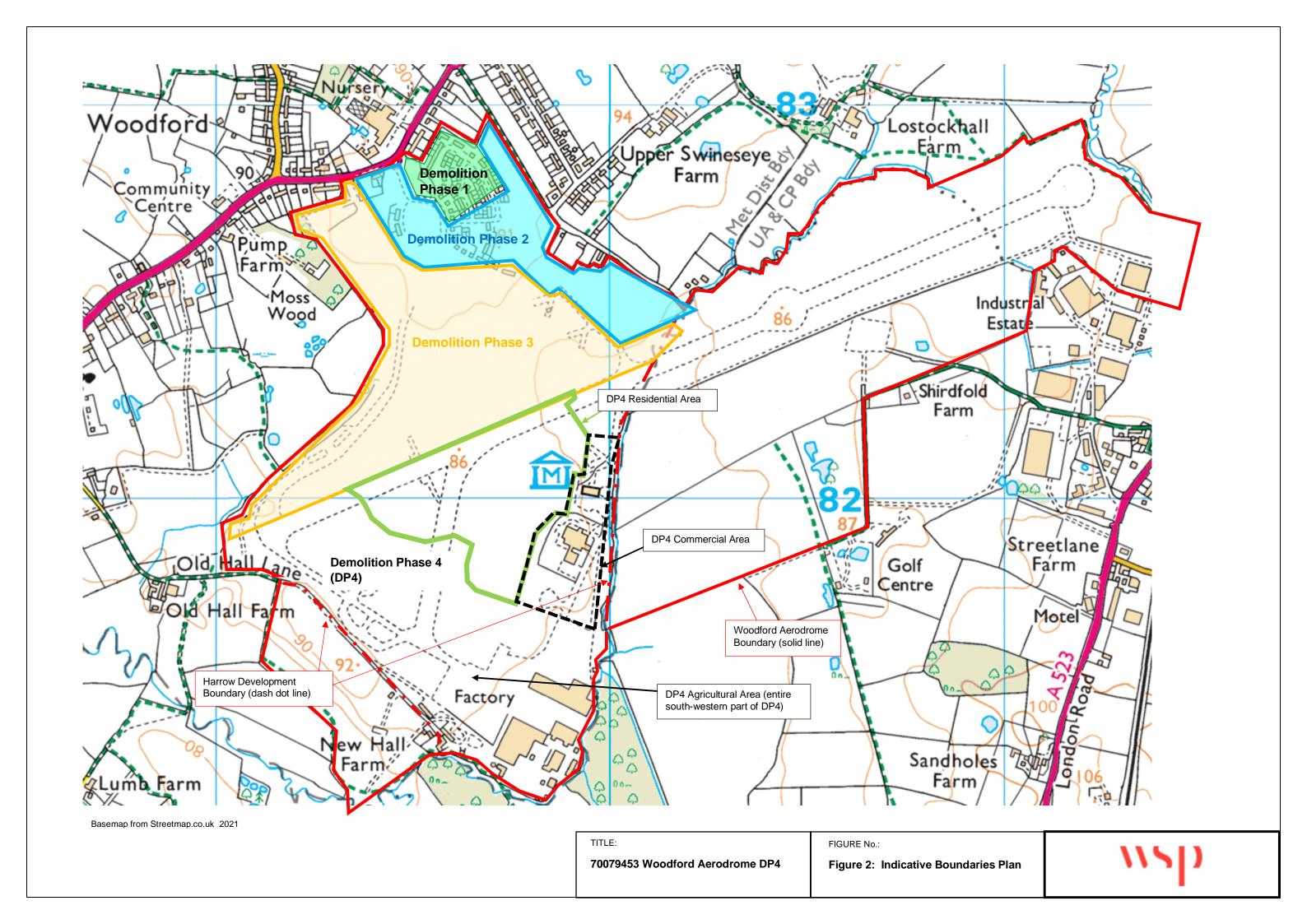
TITLE:

70079453 Woodford Aerodrome DP4

FIGURE No.:

Figure 1: Site Location 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

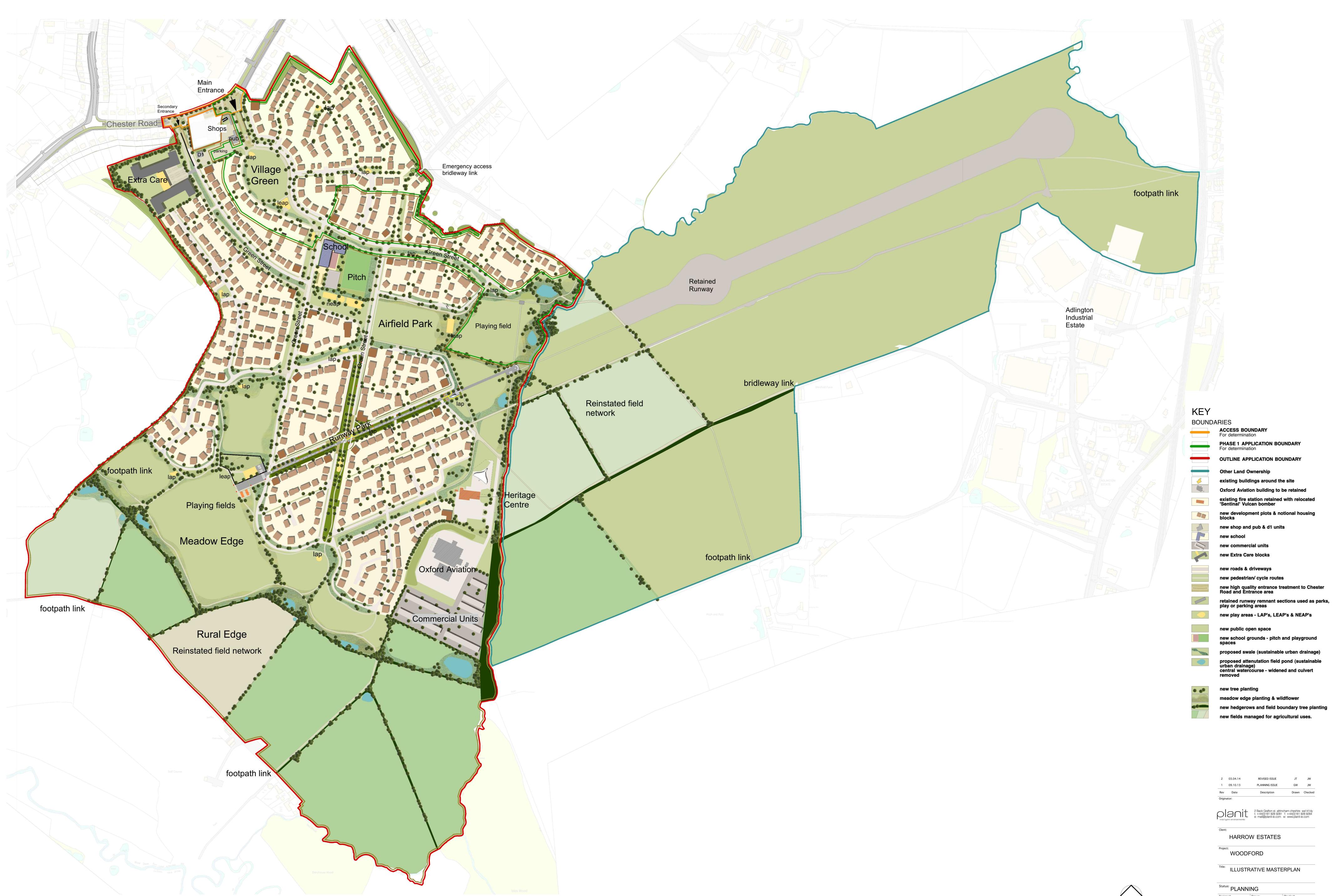
TITLE:

70079453 Woodford Aerodrome DP4

FIGURE No.:

Figure 3: DP4 North Remediation Summary Plan





N
s drawing is copyright and may not be reproduced in whole or part without written authority.
do not scale off this drawing

 Status: PLANNING

 Designed:
 SF
 Drawn:
 SF
 Checked:
 JW

 Scale @ A0
 1:2500
 Date:
 09.10.13
 Approved:
 PS

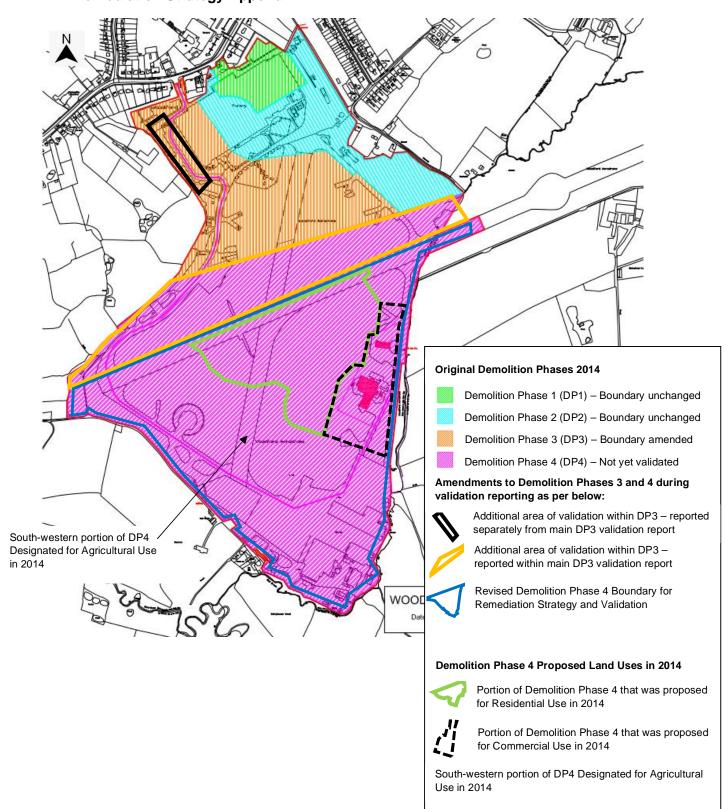
 Drawing No.:
 PL 1161.GA.3013
 2

# **Appendix B**

DP3 / DP4 BOUNDARY CHANGE INFORMATION



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

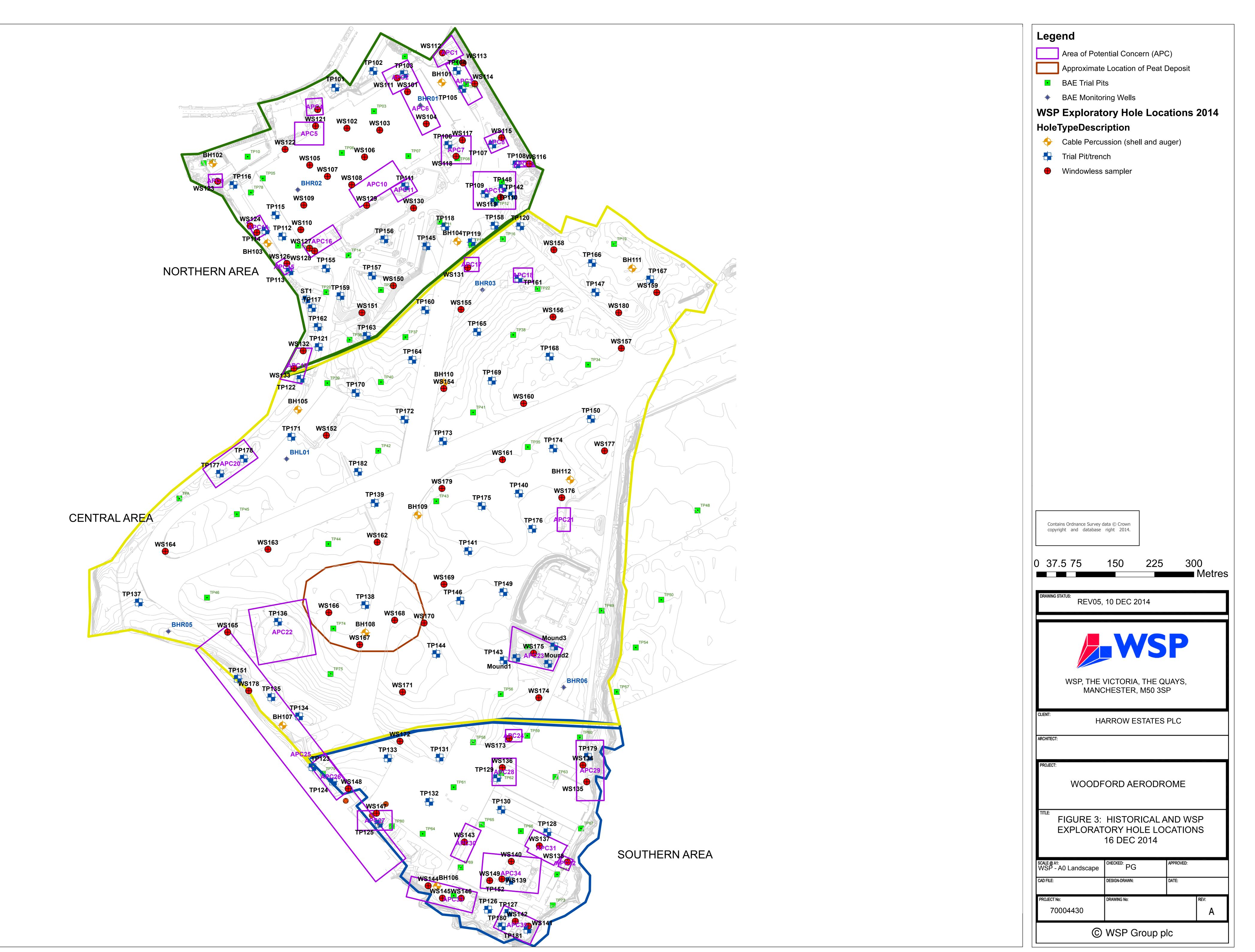


# Appendix C

PREVIOUS GROUND INVESTIGATION INFORMATION







SITE					CLI	ENT						enter Experience	
	Wo	odfor	d Phase 1	1 SI			A۱	/ro F	leritage Ltd	BAE SYSTEMS			
	T NUMB			TES 19389.61 32143.52	GROUND ELEVATION (mAOD) 86.666			N (mAC	HOLE DEPTH (m) 10.00	Sheet 1 of 1 BHL01			
METHO	)		CASING		DATE		1/201	2	LOGGED BY AW	CHECKED BY	SCALE	1:50	
SAMP	LES &	TES	TS		STF	RATA			<b>'</b>	-	+		
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESUL	.TS	LEVEL (mAOD)	BASI (THICKN mbgl (	E IESS) D (m) (i	DEPTH mbgl)	DESCRIPTION		LEGEND	WATER BACKFILI	
0.30	0.00	D			- - - -	0.20	(0.20)		Soft brown sandy SILT with [Topsoil].				
0.80	0.00	D			-	(	(1.10)	1	Soft to firm brown sandy sl with some subangular to so	ubrounded gravel.			
1.30 1.50	0.00 1.95	D S	N=13 (1, 2 -	2 2 4 4)	<del>-</del> 86 - - -	1.30		1-	Firm blue grey CLAY with	some fine to medium	* * * * * * * * * * * * * * * * * * *		
1.50	0.00	SPTLS	N=13 ( 1, 2 -	- 2, 3, 4, 4)	- - - - -85	(	(0.80)	2-	subangular to subrounded lithology.	gravel of mixed			
2.10	0.00 2.95	D S	N=15 ( 1, 2 -	- 2, 3, 5, 5)	- - - -	2.10		-	Red brown slightly silty SA to some fine subrounded g lithology.	ND with ocassional gravel of mixed			
2.50	0.00	SPTLS D		-, -, 0, 0)	- - - - -84	(	(1.80)	3-					
3.50	3.95	S	N=11 (1, 2 -	- 2, 2, 3, 4)	-	`	/	- d - d - d - d					
3.50 4.00	0.00	SPTLS D			-83	3.90		4	Very soft red brown very sa	andy SILT with	X X X X X X X X X X X X X X X X X X X		
4.50	4.95	S	N=0 ( 0, 0 -	0, 0, 0, 0)	- - - -	4.50	(0.60)	-	ocassional fine angular to see Very soft to firm clayey red		* * * * * * * * * * * * * * * * * * *		
<ul><li>4.50</li><li>5.00</li></ul>	0.00	SPTLS D			- - - - 82			5	with ocasional fine subrour content and density increa	nded gravel. Sand	(		
					- - - -						/ / / / / / / / / / / / / / / / / / /		
6.00 6.00	6.45 0.00	S SPTLS	N=11 ( 1, 2 -	. 3, 2, 3, 3)	- - 81			6			* * * * * * * * * * * * * * * * * * *		
6.50	0.00	D			- - - -						X X X X X X X X X X X X X X X X X X X		
					- 80	(	(5.50)	7-			(****** (***** (****** (*****		
7.50 7.50	7.95 0.00	S SPTLS	N=2 (1, 0-	0, 1, 0, 1)	- - - -	`	/				(		
8.00	0.00	D			- 79 - -			8-			X X X X X X X X X X X X X X X X X X X		
9.00	9.45	S	N=12 ( 1, 2 -	. 2 3 4 3\	- - - - - -78			9-			C * * * * * * * * * * * * * * * * * * *		
9.00	0.00	SPTLS D		_, 0, 7, 0)	- 70			~ <u> </u>			( * * * × * * * * * * * * * * * * * * *		
2.00	0.00				- ,	10.00					X X		
GROUNI	DWATER			REMARK					End of Borehol	e at 10.00 m	KEY		
DEPTH (		BEHAVIO	OUR	Water added		gl to 4.50	0m bg	ıl.			B - Bulk disturbed sa D - Disturbed sample G - Disturbed sample DG - Disturbed samp U - Undisturbed U10 W - Water sample S - Standard Penetra	es (plastic tub) e (glass jar) ble (tub and jar) 0 sample	
				Material logged in ge	neral accordar	nce with B	S EN IS	O 14688		BAE Cable Percussion Log v1.4	O Oten deed December	ation Test (using cone)	

SITE					CLIEN	Γ			202		Line Street
	Wo	odfor	d Phase 1	SI		Av	ro He	eritage Ltd	BAE	SYST	EMS
PROJEC	T NUMBE	R	CO-ORDINAT		GROUND EL	EVATION	(mAOD	) HOLE DEPTH (m)		BOREHOLE	
А	1065-00	1		0504.87 1930.03	;	85.575		10.00	Sheet 1 of 1	ВІ	HL02
METHOD	)		CASING		DATE 19	9/01/2012	!	LOGGED BY AW	CHECKED BY	SCALE	1:50
SAMP			TS		STRAT			,	,	*	
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESUL	TS	LEVEL (THIC (mAOD) mb	BASE CKNESS) DE ogl (m) (m	PTH DE	ESCRIPTION		LEGEND	WATER BACKFILL
0.40	0.00	D			0.30	(0.30)	-	MADE GROUND: Brown odour.  MADE GROUND: Mottled gravel and ocassional len	I orange brown clay with		
1.50 1.50	1.95 0.00	S SPTLS	N=10 ( 1, 2 -	2, 3, 2, 3)	1.40	(0.50)		Brown silty SAND.			
2.00	0.00	D			1.90	(0.50)	2-	Very soft brown thinnly lar silty, slightly sandy CLAY.	minated slightly	× × × × × × × × × × × × × × × × × × ×	
2.50 2.50	2.95 0.00	S SPTLS	N=11 ( 1, 2 -	2, 3, 3, 3)	2.40			Brown slightly silty medium quartz, coal, sandstone and	m to coarse SAND of nd limestone.	x × × x x × × x x × × x	
3.00	0.00	D			- 83 -		3-			× × × ×	
3.50 3.50	3.95 0.00	S SPTLS	N=16 ( 2, 3 -	4, 3, 4, 5)	-	(2.50)	- - - -			* * * * * * * * *	
4.00	0.00	D			- 82 -		4-			× × × × × × × × × × × × × × × × × × ×	
4.50 4.50	4.95 0.00	S SPTLS	N=23 ( 3, 4 -	5, 6, 6, 6)			- - - -			* * * * * * * * * *	
5.00	0.00	D			81 4.90		5-	Soft brown very sandy SII	LT.	X X X X X X X X X X X X X X X X X X X	
5.50 5.50	5.95 0.00	S SPTLS	N=8 ( 1, 1 - 2	2, 1, 2, 3)	- - -	(1.10)	- - - - -			(	
6.00	0.00	D			- 80 6.00 - - - - - -	(1.50)	6	Brown slighty silty mediur with some fine to medium	n to coarse SAND gravel.	****	
7.00 7.00	7.45 0.00	S SPTLS	N=15 ( 2, 2 -	4, 3, 4, 4)	- 79 -		7-				
7.50	0.00	D			7.50 - - -78		8-	Stiff to very stiff brown this slightly sandy SILT with o angular to subrounded gra	cassional fine	x x x x x x x x x x x x x x x x x x x	
8.50 8.50	8.95 0.00	S SPTLS	N=31 ( 3, 5 -	6, 7, 9, 9)	E E	(2.50)	-			( x x x x x x x x x x x x x x x x x x x	
9.00	0.00	D			_ 77	, ,	9-			(	
9.50 9.50	9.95 0.00	S SPTLS	N=36 ( 4, 6 -	8, 8, 9, 11)	- 40.00					X X X X X X X X X X X X X X X X X X X	
GROUNE	WATER		T	REMARKS	10.00	'	<u> </u>	End of Boreho	ole at 10.00 m	KEY	
DEPTH (1 3.10	m) B	EHAVIO to 2.60	DUR after 20 mins	Material logged in gene		n BS EN ISO	14688		BAE Cable Percussion Log v1.4	B - Bulk disturbed si D - Disturbed sampl G - Disturbed sampl DG - Disturbed sam U - Undisturbed Unt W - Water sample S - Standard Penetr C - Standard Penetr	es (plastic tub) e (glass jar) ple (tub and jar) 00 sample

SITE				CLIENT		PAG	SYSTEMS
	Wo	odfoi	rd Phase 1 SI	Avro He	ritage Ltd	DAE	21015110
	T NUMB		CO-ORDINATES E - 390615.20 N - 382739.38	GROUND ELEVATION (mAOD) 86.859	HOLE DEPTH (m) 10.00	Sheet 1 of 1	BHL03
METHO	)		CASING	DATE 16/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50
SAME	LES 8	k TES	STS	STRATA			
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) DEPTH (mAOD) (THICKNESS) (mbgl (m) (mbgl) DE	SCRIPTION		LEGEND WATER BACKFILI
0.30	0.00	D		0.30	Soft brown sandy SILT wi [Topsoil]. Soft very sandy orange m		
0.90	0.00	D		(1.10)	con very sandy change in	ould grey OEVI.	
1.50 1.50	1.95 0.00	S SPTLS	N=3 (1, 2-1, 0, 1, 1)	F 7	Grey silty medium to coar occasional fine gravel. Wo stratum.	se SAND with cod at base of	
2.20	0.00	D		(1.40)			
2.50 2.50	2.95 0.00	S SPTLS	N=10 (2, 1 - 2, 2, 3, 3)	2.80	Firm brown sandy SILT / (	CLAV with fine	
3.20	0.00	D		84 3-	subangualr gravel of mixe	ed lithology.	
3.50 3.50	3.95 0.00	S SPTLS	N=20 ( 2, 3 - 4, 5, 5, 6)				
4.20	0.00	D		83 (2.00)			X X X X X X X X X X X X X X X X X X X
4.50 4.50	4.95 0.00	S SPTLS	N=22 ( 3, 4 - 5, 5, 6, 6)	4.80	December 11 and 12 and 15	OAND	**************************************
5.20	0.00	D		F82 5 7	Brown slightly silty mediun with fine subrounded grav clay lenses.	rel and ocassional	
5.50 5.50	5.95 0.00	C SPTLS	N=32 (3, 5 - 7, 8, 8, 9)				
6.00	0.00	D		81 6-			
7.00 7.00	7.45 0.00	S SPTLS	N=36 ( 4, 6 - 6, 7, 11, 12)	(3.50)			
7.60	0.00	D					
8.50	0.00	D		8.30	Firm brown silty CLAY wit	th some fine gravel.	
				-78 9- (1.70)			
9.50 9.50	9.95 0.00	S SPTLS	N=43 ( 3, 5 - 9, 11, 13, 10)	40.00			* * * * * * * * * * * * * * * * * * *
GROUNI	DWATER	<u> </u>	REMARKS	10.00 +-	End of Boreho	ole at 10.00 m	KEY
DEPTH (	(m) I	BEHAVI	OUR l after 20 mins	eral accordance with BS EN ISO 14688		BAE Cable Percussion Log v1.4	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)

	ER		1 SI		Avro I	Heritage Ltd		AR 22		
A1065-00						Tomago Lta		BAE SYSTEMS		
	)	PROJECT NUMBER CO-ORDINATES		GROUND EL	_EVATION (mA	OD) HOLE DEPTH (m)		BOREHOL	.E	
METHOD			90968.90 32462.75		88.409	10.00	Sheet 1 of 1	Bł	HL04	
		CASING		DATE 17	7/01/2012	LOGGED BY AW	CHECKED BY	SCALE	1:50	
SAMPLES &	TES	TS		STRAT	A					
TOP BASE (mbgl)	TYPE	TEST RESUL	.TS	LEVEL (THIC (mAOD) ml	BASE CKNESS) DEPTH bgl (m) (mbgl)	DESCRIPTION		LEGEND	WATER BACKFI	
				0.30	(0.30)	Soft brown sandy SILT wi [Topsoil].	th organic odour			
0.50 0.00	D			-	1	Grey silty SAND with suba	angular to subrounded			
1.00 0.00	D			- 87	(1.30) 1			×	110	
1.50 1.95 1.50 0.00	S SPTLS	N=2 ( 1, 0 -	0, 0, 1, 1)	1.60	1					
2.00 0.00	D			- 86	(0.70) 2	Soft grey sandy SILT . Sli	gnt organic odour.	(		
2.50 2.95 2.50 0.00	S SPTLS	N=23 ( 2, 4 -	- 5, 6, 5, 7)	2.30		Soft to firm red brown san much fine subrounded gra increases with depth.	dy CLAY / SILT with avel. Clay content	X X X X X X X X X X X X X X X X X X X		
3.00 0.00	D			- 85	3-	morousos man dopum		X X X X X X X X X X X X X X X X X X X		
3.50 3.95 3.50 0.00	S SPTLS	N=27 ( 3, 4 -	- 6, 7, 7, 7)	- - -	(2.20)			****** ****** ****** ******		
4.00 0.00	D			84	4-			* * * * * * * * * * * * * * * * * * *		
4.50 4.95 4.50 0.00	S SPTLS	N=18 ( 2, 3 -	- 3, 4, 5, 6)	4.50		Soft to firm brown thinnly sandy very clayey SILT.	laminated slightly	<u>(x)</u>		
5.00 0.00	D			- 83 -	5-			(		
5.50 5.95 5.50 0.00	S SPTLS	N=20 ( 2, 4 -	- 4, 5, 6, 5)	<u>-</u>				(XXXX XXXXX XXXXX XXXXX		
6.00 0.00	D			  82 	6-			X X X X X X X X X X X X X X X X X X X		
				- - -	- - - -			X X X X X (		
7.00 7.45 7.00 0.00	S SPTLS	N=28 ( 3, 5 -	- 6, 7, 7, 8)	<del>-</del> 81 - - -	(5.50)			(		
7.50 0.00	D			-				X X X X X X X X X X X X X X X X X X X X		
				   	8-			***** ***** *****		
8.50 8.95 8.50 0.00	S SPTLS	N=20 ( 2, 3 -	- 5, 4, 5, 6)		- - -			X X X X X		
				79  -	9-			XXXXX XXXXX XXXXX XXXXX XXXX		
9.50 9.50 9.50 9.95 0.00	S SPTLS	N=24 ( 3, 4 -	- 5, 6, 7, 6)	E				(		
				10.00	) -	End of Boreho		×××××	i i	
. ,	BEHAVI	OUR after 20 mins	REMARK	S				KEY  B - Bulk disturbed sample G - Disturbed sample G - Disturbed sample U - Undisturbed U10 W - Water sample	es (plastic tub) e (glass jar) ole (tub and jar)	

SITE					CLIENT			A 61 6			
	Wo	odfor	d Phase 1	SI	Av	ro Her	itage Ltd	BAE	BAE SYSTEMS		
	T NUMBE			ES 9648.17 2814.37	GROUND ELEVATION (mAOD) HOLE DEPTH (m 90.906 25.00			Sheet 1 of 3	BHR01		
METHOD	)		CASING		DATE 27/01/2012	2	LOGGED BY AW	CHECKED BY	SCALE 1	:50	
	LES &	TES	TS		STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULT	TS	LEVEL (THICKNESS) DI (mAOD) mbgl (m) (n	EPTH DES	SCRIPTION		LEGEND WA	ATER BACKFIL	
					0.40	- N	MADE GROUND: Concre	sand with gravel of			
1.20	1.65	S	N=21 ( 4, 6 -	8, 6, 4, 3)	- (0.90) - 90 - 1.30	1-	oncrete, brick and bitum	en.			
1.20	0.00	SPTLS D			- 1.30	_ s	Stiff to very stiff brown sa ilty CLAY with subround ravel.	andy slightly led to subangular			
2.00 2.00	2.45	S SPTLS	N=7 (1, 2 - 1	1, 2, 2, 2)		2-					
3.00 3.00	3.45 0.00	S SPTLS	N=10 (1, 2-	2, 3, 2, 3)	88 (3.70)	3-					
4.00 4.00	4.45 0.00	S SPTLS	N=10 (1, 2-	3, 2, 3, 2)	87 	4-					
5.00 5.00	5.45 0.00	S SPTLS	N=29 ( 3, 4 -	6, 8, 7, 8)		] s	Red brown silty medium ome fine to medium sub ravel. Variable silt conte	prounded to rounded			
6.50 6.50	6.95 0.00	S SPTLS	N=26 ( 4, 5 -	7, 6, 7, 6)		6-					
					- 84 - (4.30)	7-					
8.00 8.00	8.45 0.00	S SPTLS	N=27 (3, 4-	6, 7, 6, 8)		8					
9.50 9.50	9.95 0.00	S SPTLS	N=14 ( 2, 3 -	3, 4, 3, 4)	9.30	- 8	Soft to firm red brown ver enses of grey brown silty	/ sand.	X X X X X X X X X X X X X X X X X X X		
GROUNI DEPTH ( 13.00		EHAVIO	1	REMARK	<u>[</u> S	<u> </u>	Continued	next sheet	KEY  B. Bulk disturbed sample D. Disturbed samples (pla G. Disturbed sample (glat DG. Disturbed sample (tu) U. Undisturbed U100 sam W. Water sample S. Standard Penetration	astic tub) ss jar) b and jar) nple	

SITE				CLIENT		24 C. (4)		un d'ant	
	Wo	odfor	d Phase 1 SI	Avro Her	itage Ltd	BAE	SYSTE	MS	
PROJEC	T NUMBE	R	CO-ORDINATES	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		BOREHOLE		
А	1065-00		E - 389648.17 N - 382814.37	90.906	25.00	Sheet 2 of 3	BH	HR01	
METHOD	)		CASING	DATE 27/01/2012	LOGGED BY AW	CHECKED BY	SCALE	1:50	
SAMP		TES	TS	STRATA		·	•		
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) DEPTH (mbgl) DES	SCRIPTION		LEGEND	WATER BACKFILL	
11.00 11.00	11.45 0.00	S SPTLS	N=16 ( 2, 3 - 4, 3, 4, 5)	11 = 10   10   11   11   12   12   12   12	Soft to firm red brown ver enses of grey brown silty				
12.50 12.50	12.95 0.00	S SPTLS	N=14 ( 3, 4 - 3, 4, 3, 4)	- 79 	and brown aliabily ailty C	AND with outpongular	X X X X X X X X X X X X X X X X X X X		
13.50 13.50	13.95 0.00	S SPTLS	N=9 ( 2, 1 - 2, 2, 2, 3)	-78 - h	Red brown slightly silty S o subrounded gravel.	AND with subangular	to silve salve sal		
14.50 14.50	14.95 0.00	S SPTLS	N=11 (1, 2 - 3, 2, 3, 3)	- 77 			to alke alke alke alke alke alke alke alke		
40.00	0.00			15 = 15 = 15 = 15 = 15 = 15 = 15 = 15 =			te sible sible salte sible te sible sible salte sible sible salte sible		
16.00	0.00	D			Firm red brown thinnly lar andy SILT.	minated slightly	X X X X X X X X X X X X X X X X X X X		
17.00	0.00	D		17 - - 74 -                             			(		
18.00	0.00	D		18 - - 73 - 			X X X X X X X X X X X X X X X X X X X		
19.00	0.00	D			Red brown silty fine to me		XXXX XXXX XXXX XXXX XXXX XXXX		
20.00	0.00	D			ubangular gråvel of mixe Continued	ed lithology.			
GROUNE DEPTH ( 13.00	m) B	EHAVIO to 11.5	0 after 20 mins	eneral accordance with BS EN ISO 14688		BAE Cable Percussion Log v1.4	KEY  B - Bulk disturbed sa D - Disturbed sample G - Disturbed sample DG - Disturbed sampl U - Undisturbed U10 W - Water sample S - Standard Penetra C - Standard Penetra	es (plastic tub) e (glass jar) ble (tub and jar) 0 sample	

SITE					CLIENT		144 - 2-1 - 42		and William V
	Wo	odfor	d Phase 1	SI	Avro Heri	tage Ltd	BAES	SYSTI	EMS
PROJEC	T NUMBE	ΕR	CO-ORDINAT	ES	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		BOREHOL	E
А	1065-00	)		9648.17 2814.37	90.906	25.00	Sheet 3 of 3	Bł	HR01
METHOD	)		CASING		DATE 27/01/2012	LOGGED BY AW	CHECKED BY	SCALE	1:50
SAMP	LES &	TES	TS		STRATA				
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESUL	TS	LEVEL (THICKNESS) DEPTH (mbgl) DES	CRIPTION		LEGEND	WATER BACKFILL
21.00	0.00	D			- - R	ed brown silty fine to me ubangular gravel of mixe	edium SAND with some ed lithology.		
22.00	0.00	D			22-				
23.00	0.00	D			-68				
					24.00 24 Fi	irm red brown very sand ILT.	y thinnly laminated	XXXXX (XXXX (XXXX (XXXX (XXXX (XXXX (XXXX) (XXXXX)	
					- 25.00 25 - 66	End of Boreho	ole at 25.00 m	c××××	
					- 26				
					27 <del>-</del> -64 -				
					-63				
					29 -				
GROUNE DEPTH (I 13.00	m) B	BEHAVIII	OUR 60 after 20 mins		al accordance with BS EN ISO 14688		BAE Cable Percussion Log v1.4	KEY  B - Bulk disturbed sar  D - Disturbed sampl G - Disturbed sampl G - Disturbed sampl U - Undisturbed unt W - Water sample S - Standard Penetr C - Standard Penetr	es (plastic tub) e (glass jar) ple (tub and jar) 00 sample

SITE		.,	. 5.	CLIENT			SYSTE	ME
Woodford Phase 1 SI				Avro I	Avro Heritage Ltd			
PROJECT NUMBER CO-ORDINATES				GROUND ELEVATION (mA	GROUND ELEVATION (mAOD) HOLE DEPTH (m)		BOREHOLE	
A1065-00 E - 389417.39 N - 382654.34  METHOD CASING				90.776	34.00	Sheet 1 of 4	BHR02	
			CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE	1:50
SAMP	LES &	TES	TS	STRATA				
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL BASE DEPTH (mAOD) mbgl (m) (mbgl)	DESCRIPTION		LEGEND	WATER BACKFIL
0.00	0.45		N=0 ( 0, 0 - 0, 0, 0,	) [ (0.25)	MADE GROUND: Concr	× × × × × × × × × × × × × × × × × × ×		
0.30	0.00	D		- 0.25 -	MADE GROUND: Brown sand with gravel of			
0.60	0.00	D			concrete, brick and bitum	nen.		
				(1.15)				
				_ 90				
1.50	1.95	s	N=13 (1, 2 - 3, 3, 4,	3)	Soft black sandy SILT wi	ith some subangular	X X,X X-X	
1.50		SPTLS	, , , , ,	[ ]	gravel.	g	( * * * * * * * * * * * * * * * * * * *	
2.00	0.00	D		- - - 89 (0.90) 2			( × × × × × × × × × × × × × × × × × × ×	
				2.30	<del></del>		( × × × × × × × ×	
2.50 2.50	2.95 0.00	S SPTLS	N=15 ( 2, 3 - 3, 4, 3,	5)	Firm brown slightly sand to medium subrounded g	y CLAY with some fine gravel		
2.50	0.00	SFILS		= =				
3.00	0.00	D		88 3-				
3.50 3.50	3.95 0.00	S SPTLS	N=28 ( 4, 5 - 6, 7, 7,	8) – –				
4.00								
4.00	0.00	D		E-87 4			33 <i>0</i> 555	
4.50	4.95	S	N=25 ( 3, 5 - 5, 6, 7,	7)				
4.50	0.00	SPTLS	(2, 2 2, 2, 2, 1,	·			122	
5.00	0.00	D		- - - 86 5-				
				= =				
5.50	5.95 0.00	S SPTLS	N=24 ( 3, 4 - 5, 6, 6,	7)				
5.50	0.00	SFILS		(7.00)			123	
6.00	0.00	D		<del>-</del> 85 6-				
							244 244	
7.00	7.45	S	N-29/4 F G 7 7	8) = 84 7 -				
7.00	7.45 0.00	SPTLS	N=28 ( 4, 5 - 6, 7, 7,	~,				
7.50	0.00	D		<u> </u>			145	
				[			+	
				83 8-			3 <u>8</u> 3	
				<u> </u>				
8.50 8.50	8.95 0.00	S SPTLS	N=21 ( 3, 4 - 4, 5, 6,	6)			113	
5.50	5.55	J. 120		<u> </u>				
9.00	0.00	D		-82 9-				
9.30	0.00	D		9.30	Soft orange brown sandy	y SILT.	\$ 5 5 ****	
				‡ ‡	-		× × × × ×	
10.00	10.45	S	N=14 ( 2, 3 - 3, 4, 3,	4)			X X X X X X X X X X	
10.00 10.00 GROUND	0.00	SPTLS		<del>""</del> ARKS	Continued	d next sheet	KEY	
DEPTH (r		BEHAVIO	OUR Water	added 9.0m bgl to 11.3m bgl; 11.5i		BAE Cable Percussion Log v1.4	B - Bulk disturbed sa D - Disturbed sample G - Disturbed sample DG - Disturbed samp U - Undisturbed U10 W - Water sample S - Standard Penetra C - Standard Penetra	es (plastic tub) e (glass jar) ble (tub and jar) 0 sample

SITE	Wo	odfor	d Phase 1 SI	CLIENT Avro He	eritage Ltd	BAE SYSTEMS			
	T NUMBE		CO-ORDINATES E - 389417.39 N - 382654.34	GROUND ELEVATION (mAOD 90.776	HOLE DEPTH (m) 34.00	Sheet 2 of 4	BHR02		
METHOD	)		CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50		
SAMP	LES &	TES	TS	STRATA		•	•		
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL BASE (THICKNESS) DEPTH (mbgl) DE	ESCRIPTION		LEGEND WA	TER BACKFILI	
10.50	0.00	D		(2.20)	Soft orange brown sandy S	SILT.	XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX		
11.50 11.50 12.00	11.95 0.00 0.00	S SPTLS D	N=7 (1, 0 - 1, 2, 2, 2)	11.50	Soft orange brown very sa subrounded gravel. Variab depth.	ndy SILT with fine le sand content with	X X X X X X X X X X X X X X X X X X X		
13.00 13.00	13.45 0.00	S SPTLS	N=1 (1, 0 - 0, 1, 0, 0)	- - - - - - - - - - - - - - - - - - -					
13.50	0.00	D		14=					
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		- 15 <del>-</del> - 76	Firm red brown thinnly lam SILT with fine to medium s	inated very sandy ubrounded gravel.			
16.00	0.00	D		- 16 - 16					
17.00	0.00	D		- 17- - 74					
18.00	0.00	D		- 18 <del>-</del> - 73					
19.00	0.00	D		19 =					
				<u> </u>	Continued n	ext sheet	* * * * * * * * * * * * * * *		
GROUNI DEPTH (		BEHAVIO		S I 9.0m bgl to 11.3m bgl; 11.5m b		BAE Cable Percussion Log v1.4	KEY  B - Bulk disturbed sample D - Disturbed samples (plas G - Disturbed sample (glas DG - Disturbed sample (tut U - Undisturbed U100 sam W - Water sample S - Standard Penetration T C - Standard Penetration T	s jar) o and jar) ole est	

SITE	Wo	odfor	d Phase 1 SI	CLIENT Avro He	ritage Ltd	BAE	BAE SYSTEMS			
	T NUMBE		CO-ORDINATES E - 389417.39 N - 382654.34	GROUND ELEVATION (mAOD) 90.776	HOLE DEPTH (m) 34.00	Sheet 3 of 4	BOREHOLE	02		
METHOD	)		CASING	DATE 31/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1	:50		
SAMP	LES &	TES	TS	STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) DEPTH (mAOD) (THICKNESS) DEPTH (mbgl) DE	SCRIPTION		LEGEND WA	TER BACKFILL		
20.60	0.00	D		20.60	Firm red brown thinnly lam SILT with fine to medium s	ninated very sandy subrounded gravel.	× × × × × × × × × × × × × × × × × × ×			
21.00	0.00	D		(0.40)	Brown sandy subangular to of mixed lithology.	o subrounded GRAVEL	A. X. F			
				-69 - 89	Red brown slightly silty SA subrounded gravel of coal.	ND with some fine				
22.00	0.00	D		22- - -68						
23.00	0.00	D		23			* * * * * * * * * * * * * * * * * * * *			
				-67 <sub>(4.70)</sub>						
24.00	0.00	D		24-						
				-66			× * * * * * * * * * * * * * * * * * * *			
				25-						
				25.70	2	T 20	* * * * *			
26.00	0.00	D		26	Red brown very sandy SIL subrounded gravel of coal.		(* * * * * * * * * * * (* * * * * * * * *			
				<del>-</del> 64			(*****) (*****) (*****)			
				27-			(* * * * * * * * * * * * * * * * * * *			
				-63			* * * * * * * * * * (* * * * *			
							* * * * * * * * * * * * * * * * * * *			
				-62 -62			* * * * * * * * * * * * * * * * * *			
28.50	0.00	D		(5.70)			* * * * * * * * * * * * * * * * * * * *			
				29-			(***** (****** (****** (******			
				-61			* *			
							X X X X X X X X X X X X X X X X X X X			
					Continued n	next sheet	( * * * * * * * * * * * * * * * * * * *			
GROUNE DEPTH (		BEHAVI		S - d 9.0m bgl to 11.3m bgl; 11.5m bgl; 11.5	gl to 33.0m bgl	BAE Cable Percussion Log v1.4	KEY  B - Bulk disturbed sample D - Disturbed samples (pla G - Disturbed sample (glas DG - Disturbed sample (ful U - Undisturbed U100 sam W - Water sample S - Standard Penetration T C - Standard Penetration T	s jar) b and jar) ple est		

SITE				CLIE	CLIENT				CVCTCHC		
	Wo	odfor	d Phase 1 SI		Avro Her	itage Ltd	BAE	SYSTE	MS		
PROJEC	T NUMBI	ER	CO-ORDINATES	GROUNI	D ELEVATION (mAOD)	HOLE DEPTH (m)		BOREHOL	E		
А	1065-00	)	E - 389417.: N - 382654.		90.776	34.00	Sheet 4 of 4	BH	IR02		
METHO	)		CASING	DATE	31/01/2012	LOGGED BY AW	CHECKED BY	SCALE	1:50		
SAMP	LES &	TES	TS	STRA							
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (mAOD)	BASE (THICKNESS) DEPTH (mbgl (m) DE	SCRIPTION		LEGEND	WATER BACKFILL		
				- - - - - - - - - - - - - - - - - - -	31 - S	Red brown very sandy SILT ubrounded gravel of coal.		X X X X X X X X X X X X X X X X X X X			
31.50	0.00	D		- - - - - - - - - - - - - - - - - - -	(1.30) 32 =	Red brown medium to coar					
33.50	0.00	D		-57 <sub>33</sub>	(0.80) 33 = fi	Stiff brown sandy slightly sine to medium gravel.  Red brown slightly silty med SAND with fine subrounded		X X X X X X X X X X X X X X X X X X X			
				-  -  -  -  -	(0.50) - 5	SAND with fine subrounded					
				= 56 - - - - -	35 =						
				- - 55 -	33 -						
				- - - - -	36 =						
				<del>-</del> 54	27						
				- - - - 53	37 <del>-</del> - - - -						
				-  -  -  -  -  -	38 <del>-</del> -						
				- 52 - - - - -	39						
				=-51 =-51							
				-  -  -  -  -  -							
GROUNI	DWATER		  RF	MARKS	4			KEY			
DEPTH (		BEHAVI	OUR Wa	er added 9.0m bgl to	o 11.3m bgl; 11.5m bg	l to 33.0m bgl		B - Bulk disturbed sa D - Disturbed sample G - Disturbed sample DG - Disturbed samp U - Undisturbed U100 W - Water sample S - Standard Penetra	s (plastic tub) (glass jar) le (tub and jar) ) sample tion Test		
			Materia	logged in general accordance	e with BS EN ISO 14688		BAE Cable Percussion Log v1.4	C - Standard Penetra	tion Test (using cone)		

SITE					CLIEN'	Т			25 C E		(4.2 m) Y		
	Wo	odfoı	rd Phase 1	SI		A	vro H	eritage Ltd	BAE	BAE SYSTEMS			
	T NUMBE		CO-ORDINATI E - 389 N - 382		GROUND EI	_EVATIO 88.523	N (mAO	D) HOLE DEPTH (m) 27.00	Sheet 1 of 3	BHR03			
METHO	)		CASING		DATE 25	5/01/201	2	LOGGED BY AW	CHECKED BY	SCALE 1:50			
	LES &	TES	TS		STRAT			'	•	+			
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULT	rs	LEVEL (THI	BASE CKNESS) bgl (m)	DEPTH (mbgl)	DESCRIPTION		LEGEND	WATER BACKFIL		
0.00 0.00	0.45 0.00		N=0 ( 0, 0 - 0	), 0, 0, 0)	0.30	(0.30)		Soft brown sandy SILT win [Topsoil].	th organic odour	× × × × × × × × × × × × × × × × × × ×			
0.50	0.00	D						Soft red brown very sandy ocassional coarse subrou	v SILT with nded gravel.	(**.x.x.) (**.x.x.) (**.x.x.) (**.x.x.) (**.x.x.)			
1.50	1.95	S	N=11 (1, 2 -	2. 3. 3. 3)	= 88 - - - -	(2.50)	1-			(			
2.00	0.00	S D		, -, -, -,	- - - -87	(2.50)	2-			(***** ***** ***** (****			
2.50 2.50	2.95 0.00	S D	N=6 ( 1, 0 - 1	, 1, 2, 2)	- - - -					(			
3.00	0.00	D			2.80		3-	Red brown very silty SAN	D with gravel.	****			
3.50 3.50	3.95 0.00	S D	N=12 ( 1, 2 -	2, 3, 3, 4)	-	(1.10)	-						
4.00	0.00	D			- 85 - 85	(0.90)	4-	Very soft sandy SILT with subangular to subrounded	ocassional to some I gravel.	***** ***** ***** *****			
4.50 4.50	4.95 0.00	S D	N=6 (1, 0 - 0	), 1, 2, 3)	4.80		-	Firm red brown slightly sa	ndy SILT with	****** ***** *****			
5.50	0.00 5.95	D S	N=20 ( 3, 4 -	5, 4, 5, 6)	= 84 - - - -	(1.30)	5-	occasional fine subangula gravel.	r to subrounded	***** ***** *****			
5.50 6.10	0.00	D D		, , ,	83 6.10		6-			(****** (****** (****** (*****			
0.10	0.00						-	Very soft to soft red browr slightly clayey SAND.	n very silty				
7.00 7.00	7.45 0.00	S D	N=13 ( 4, 5 -	4, 3, 3, 3)		(1.90)	7-			* * * * * * * * * * * * * * * * * * * *			
7.70	0.00	D			Ė					* * * * * * * * * * * * * * * * * * * *			
8.00	0.00	D			81 8.00		8	Soft brown thinnly laminat	ed sandy SILT.	X X X X X X X X X X X X X X X X X X X			
8.50 8.50	8.95 0.00	S D	N=12 (1, 2-	2, 3, 4, 3)	-	(1.80)	-			X X X X X X X X X X X X X X X X X ( X X X X			
9.00	0.00	D			= 80 - - - - -		9-			X X X X			
10.00	10.45	S	N=29 ( 3, 5 -	6, 7, 8, 8)	9.80			Continued	nevt sheet	×××× ××××			
10.00	<u>0.00                                  </u>	D. EHAVI		REMARK	S between 2.0m	bgl and	 I 9.0m I		HEAL SHEEL	KEY  B - Bulk disturbed sam D - Disturbed samples G - Disturbed sample (	(plastic tub)		
70.00	1.056	.0 14.4		Material logged in ger	neral accordance wit	h BS EN IS	O 14688		BAE Cable Percussion Log v1.4	DG - Disturbed sample U - Undisturbed U100 W - Water sample S - Standard Penetrati C - Standard Penetrati	(tub and jar) sample on Test		

SITE	Wo	odfor	d Phase 1 SI	CLIENT Avro F	Heritage Ltd	BAE	SYSTE	MS
	T NUMBE		CO-ORDINATES E - 389765.49 N - 382461.52	GROUND ELEVATION (mAC	DD) HOLE DEPTH (m) 27.00	Sheet 2 of 3	BOREHOL	IR03
METHO	)		CASING	DATE 25/01/2012	LOGGED BY AW	CHECKED BY	SCALE	1:50
SAMP	LES &	TES	TS	STRATA				
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) DEPTH (mAOD) mbgl (m) (mbgl)	DESCRIPTION		LEGEND	WATER BACKF
10.50	0.00	D		11-	Soft to firm thinnly lamina slightly sandy SILT. Clay with depth.	ated brown clayey r content is variable	XXXX XXXX XXXX XXXX XXXX XXXX XXXX	
11.50 11.50 12.00	11.95 0.00 0.00	S D	N=28 ( 4, 8 - 7, 6, 7, 8)	-77			X X X X X X X X X X X X X X X X X X X	
				-76 -     			XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	
13.00 13.00	13.45 0.00	S D	N=15 ( 2, 3 - 3, 4, 3, 5)	(6.50) 13 = -75			( × × × × × × × × × × × × × × × × × × ×	
13.50	0.00	D					* * * * * ( * * * * * * * * * * * * * *	
				14 <del>-</del> - 74			× × × × × × × × × × × × × × × × × × ×	
14.50 14.50	14.95 0.00	S D	N=20 ( 2, 4 - 4, 5, 6, 5)				× × × × × × × × × × × × × × × × × × ×	
15.00	0.00	D		- 15 <del>-</del> - 73			(X X X X X X X X X X X X X X X X X X X	
16.50	0.00	D		- 16 -72 - 16.30 - 17 - 17	Red brown very silty SAN fine subangular gravel of Silt content decreases w	mixed lithology.	X X X X X X X X X X X X X X X X X X X	
17.50	0.00	D		(3.50) 18				
18.50	0.00	D		- 19-			X	
19.50	0.00	D		- 69 	Firm to stiff sandy SILT v	with ocassional to	× × × ×	
				<u> </u>		d next sheet	( * * * * * * * * * * * * ( * * * * *	
GROUNI DEPTH ( 16.30	. ,	BEHAVI	5 after 20 mins	S I between 2.0m bgl and 9.0m	bgl	BAE Cable Percussion Log v1.4	KEY B - Bulk disturbed sa D - Disturbed sample G - Disturbed sample DG - Disturbed sample U - Undisturbed U100 W - Water sample S - Standard Penetra C - Standard Penetra	s (plastic tub) (glass jar) le (tub and jar) ) sample

SITE	Wo	odfoi	rd Phase 1	I SI	CLIENT Avro He	eritage Ltd	BAE	SYSTE	MS	
	T NUMBE			TES 9765.49 2461.52	GROUND ELEVATION (mAOD 88.523	HOLE DEPTH (m) 27.00	Sheet 3 of 3	BOREHOL	E HR03	
METHO	)		CASING		DATE 25/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50		
SAMP	LES &	TES	TS		STRATA					
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESUL	TS	LEVEL BASE DEPTH (mAOD) (THICKNESS) DEPTH (mbgl) DI	ESCRIPTION		LEGEND	WATER BACKFILL	
20.50	0.00	D			(2.00)	some fine subrounded gra	vel.	* * * * * * * * * * * * * * * * * * *		
21.50	0.00	D			21.80	Firm to stiff brown slightly	sandy SILT.	( * x,		
22.50	0.00	D			-66 -			(		
23.50	0.00	D			65 - (4.40) 24 -			(		
25.00	0.00	D			25-			XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX		
26.00	0.00	D			-63 			( X		
					-62 - (0.80) - 27.00 27	Soft brown thinnly laminate		X X X X X X X X X X X X X X X X X X X		
					-61	End of Borehol	e at 27.00 m			
					-60					
					- 29					
GROUNI DEPTH ( 16.30		BEHAVI to 14.4	OUR 15 after 20 min	6	etween 2.0m bgl and 9.0m bg	gl	BAE Cable Percussion Log v1.4	KEY  B - Bulk disturbed sa D - Disturbed sample G - Disturbed sample DG - Disturbed sampl U - Undisturbed UV W - Water sample S - Standard Penetra C - Standard Penetra	es (plastic tub) e (glass jar) ele (tub and jar) O sample	

SITE	Wo	odfor	rd Phase 1 SI	CLIENT Avro F	Heritage Ltd	BAES	YSTEMS	S
	T NUMBE		CO-ORDINATES E - 391296.90	GROUND ELEVATION (mAC	DD) HOLE DEPTH (m)		BOREHOLE	
A	1065-00	)	N - 382714.55	90.193	21.80	Sheet 1 of 3	BHR04	
METHOD	)		CASING	DATE 20/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1:50	
SAMP	LES &	TES	TS	STRATA				
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL BASE DEPTH (mAOD) (THICKNESS) mbgl (m) (mbgl)	DESCRIPTION		LEGEND WATER	BACKFILL
0.00	0.45		N=0 ( 0, 0 - 0, 0, 0, 0)	89 1— 89 1— 88 2— 88 2— 88 2— 88 3— 86 (2.90) 4— 85 5— 86 (1.30) 6— 87 3— 88 (2.90) 4— 88 (1.30) 6— 88 7— 88 7— 88 8— 88	Brown sandy SILT with or  Soft light brown thinnly lar with some sand lenses.  Grey slightly silty SAND w subrounded gravel.  Stiff brown sandy slightly s gravel.	rith subangular to	X	
				9.30	Firm to stiff red brown slig CLAY with subangular to	subrounded gravel.		
GROUNI DEPTH (		BEHAVI		<u> </u>	Continued i	BAE Cable Percussion Log v1.4	B - Bulk disturbed sample D - Disturbed samples (plastic tub G - Disturbed samples (plastic rub G - Disturbed sample (tub and je U - Undisturbed U100 sample W - Water sample S - Standard Penetration Test C - Standard Penetration Test (us	ar)

SITE	Wo	odfor	rd Phase 1 SI	CLIENT Avro He	ritage Ltd	BAE	SYSTE	NS
	T NUMBE		CO-ORDINATES E - 391296.90 N - 382714.55	GROUND ELEVATION (mAOD) 90.193	HOLE DEPTH (m) 21.80	Sheet 2 of 3	BOREHOLE BHR	04
METHOD	)		CASING	DATE 20/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1	:50
	LES &	TES	TS	STRATA	-	'	1	
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) DEPTH (mbgl) DE	SCRIPTION		LEGEND WA	TER BACKFILL
				11- -79	Red brown slightly silty SA to subrounded gravel [West	ND with subangular athered Sandstone]		
ODC:	DIA/A TT-				Continued r	next sheet	KEV	
GROUNDWATER DEPTH (m) BEHAVIOUR  Material logged in				ARKS ged in general accordance with BS EN ISO 14688		BAE Cable Percussion Log v1.4	KEY B. Bulk disturbed sample D. Disturbed samples (pla G - Disturbed sample (glas DG - Disturbed sample (tul U - Undisturbed U100 sam W - Water sample S - Standard Penetration T C - Standard Penetration T	s jar) o and jar) ple est

SITE					CLIENT					Market Market	-3			- N 7
	Wo	odfor	d Phase 1	I SI		Avro	Heri	tage Ltd		BAE	S Y	STE	M S	5
PROJEC	T NUMBI	ĒR	CO-ORDINAT	res	GROUN	ND ELEVATION (m	nAOD)	HOLE DEPTH (m)			В	OREHOL	E	
А	1065-00	)		1296.90 2714.55		90.193		21.80		Sheet 3 of 3		BH	HR04	
METHOD	)		CASING		DATE	20/01/2012		LOGGED BY AW	1	CHECKED BY	SCALE 1:50			
0.4.4.0	1.50.0	TEO	T0		OTO									
TOP	BASE		1	TO.	LEVEL (mAOD)	BASE (THICKNESS) DEPTH (mbgl)	H DEC	CDIDTION				. 505115	\\\\.	DA OKEILL
(mbgl)	BASE (mbgl)	TYPE	TEST RESUL	.15	(mAOD)	(THICKNESS) DEPTH (mbgl) (mbgl)		CRIPTION				LEGEND	WATER	BACKFILL
							Sr	nerwood SANDSTONE	E [She	erwood Sandstone]				
					-		1							
					_	21 -	-							
					 - 69		]							
					-		3							
					- 2 - -	21.80 22 -	<u> </u>	End of Boreh	hole at	t 21.80 m				
					- - 68		1							
					- -		1							
					-		]							
					-	23-	-							
					67		1							
					-		1							
					-	0.4	=							
					-	24-	=							
					66 		1							
							1							
					_	25-	_							
					- 65		-							
					-		]							
							3							
					-	26-	1							
					<del>-</del> 64		1							
						27-	3							
					- - -63		1							
					- -		1							
					-		1							
					-	28-	7							
					62 		]							
					-		1							
						29-	_							
					_ _ 61	29-	=							
					- - -		=							
					-		-							
					<u>-</u> -		1							
					<u>-</u>		1							
	DWATER		•	REMARKS			•				KEY B - Bul	k disturbed sa	mple	•
DEPTH (	(m) E	BEHAVI	OUR								D - Dis G - Dis DG - D U - Und W - Wa	turbed sample turbed sample isturbed sample disturbed U10 ater sample ndard Penetra	es (plastic tub e (glass jar) ble (tub and ja 0 sample	
				Material logged in genera	al accordan	nce with BS EN ISO 146	688			BAE Cable Percussion Log v1.4	C - Sta	ndard Penetra	ation Test (usi	ing cone)

SITE					CLI	ENT							
	Wo	odfoı	d Phase 1	I SI			Α۱	/ro F	Heritage Ltd	BAE	BAE SYSTEMS		
PROJEC	T NUMBE	R	CO-ORDINAT		GROUI	ND ELE	VATIO	N (mAC	DD) HOLE DEPTH (m)		BOREHOL	.E	
А	1065-00			9168.62 31814.12		87	7.975		23.00	Sheet 1 of 3	BHR05		
METHOD	)		CASING		DATE		)1/201	2	LOGGED BY AW	CHECKED BY	SCALE	1:50	
	LES &	TES	TS		STF	RATA			•	·			
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESUL	.TS	LEVEL (mAOD)	BAS (THICKN mbgl i	NESS) (m)	DEPTH mbgl)	DESCRIPTION		LEGEND	WATER BACKFIL	
0.00	0.00				-	0.30	(0.30)	-	Soft brown sandy SILT wit [Topsoil].	h organic odour	×××× ×××× ×××××		
0.40	0.00	D						-	Soft brown mottled grey sa slight organic odour.	andy CLAY with	man man in		
1.10	0.00	D			<del>-</del> 87	,	(1.60)	1-					
1.50 1.50	1.95 0.00	S D	N=17 ( 1, 2 -	3, 5, 4, 5)	- -			-					
2.00	0.00	D			- - - -	1.90		2-	Red brown slightly silty SA fine subrounded to subang mixed lithology.	ND with ocassional gular gravel of			
2.50 2.50	2.95 0.00	S D	N=21 ( 2, 3 -	5, 5, 6, 5)	-			-	3,				
3.00	0.00	D			- - - 85			3-					
3.50 3.50	3.95 0.00	S D	N=23 ( 2, 4 -	5, 5, 6, 7)	-		(3.70)						
4.00	0.00	D			- 84 			4-					
4.50 4.50	4.95 0.00	S D	N=24 ( 3, 6 -	5, 6, 6, 7)	-								
5.00	0.00	D			83			5-					
5.50 5.50	5.95 0.00	S D	N=10 ( 1, 2 -	2, 3, 2, 3)		5.60		1	Very soft red brown sandy ocassional fine to medium	SILT with	X X X X X X X X X X X X X X X X X X X		
6.20	0.00	D			<del>-</del> 82	6.20	(0.60)	6	subroudned gravel.  Soft orange brown thinnly	lamianted sandy	(* * * * * * * * * * * * * * * * * * *		
					-		(1.40)	-	slightly silty CLAY with mu subrounded gravel.	ch fine angular to			
7.00 7.00	7.45 0.00	S D	N=22 ( 2, 4 -	5, 5, 6, 6)	=-81 - - -	·	(1.40)	7-					
7.80	0.00	D			-80	7.60		8-	Soft red brown thinnly lam SILT.	inated very sandy			
8.50 8.50	8.95 0.00	S D	N=12 ( 2, 2 -	3, 2, 3, 4)	- - - -	1	(1.30)	-			×××× (×××× (×××× (××××		
9.00	0.00	D			- -79 - -	8.90		9	Red brown sandy SILT wit gravel of coal and quartz. variable with depth.	h ocassional fine Sand content	X X X X X X X X X X X X X X X X X X X		
10.00	10.45	s	N=19 (2, 3-	. 4 4 5 6)	-  -			=			* * * * * * * * * * * *		
10.00	0.00 0.00 DWATER	D	14-13(2, 3-	REMARK	<u> </u>				Continued r	next sheet	KEY		
DEPTH (		EHAVI	OUR	Water added  Material logged in ge	from 2.0n					BAE Cable Percussion Log v1.4	B - Bulk disturbed sa D - Disturbed sampl G - Disturbed sampl DG - Disturbed sam U - Undisturbed U10 W - Water sample S - Standard Penetra C - Standard Penetra	es (plastic tub) e (glass jar) ble (tub and jar) i0 sample	

SITE	Wo	odfor	d Phase 1 SI	CLIENT	Heritage Ltd	BAES	SYSTE	MS		
	VVO	JuiUl	a mase Fol	AVIO	nomago Lia	No. of the last of	Wild by When			
PROJEC	T NUMBE	ĒR	CO-ORDINATES	GROUND ELEVATION (mA	AOD) HOLE DEPTH (m)	E DEPTH (m)		BOREHOLE		
А	1065-00	)	E - 389168.6 N - 381814.1	07.975	23.00	Sheet 2 of 3	BH	1R05		
METHOD	)		CASING	DATE 24/01/2012	LOGGED BY AW	CHECKED BY	SCALE	1:50		
SAMP	LES &	TES	TS	STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL BASE (THICKNESS) DEPTH (mAOD) mbgl (m) (mbgl)	DESCRIPTION		LEGEND	WATER BACKFIL		
10.50	0.00	D		(2.60) - (2.	Red brown sandy SILT variable with depth.	with ocassional fine z. Sand content	X X X X X X X X X X X X X X X X X X X			
11.50 11.50	11.95 0.00	S D	N=41 ( 4, 6 - 9, 9, 1		Very soft to stiff brown s	andy silty CLAY.	( × × × × × × × × × × × × × × × × × × ×			
12.00	0.00	D		- 12			X X X X X X X X X X X X X X X X X X X			
13.00 13.00	13.45 0.00	S D	N=28 ( 3, 5 - 6, 6, 7	7, 9) = 75 (3.20)			X X X X X X X X X X X X X X X X X X X			
13.50	0.00	D		- - - - - - - - - - - - - - - - - - -			× × × × × × × × × × × × × × × × × × ×			
14.50 14.50	14.95 0.00	S D	N=34 ( 3, 5 - 6, 9, 9	9, 10)	Dark red brown medium	to coarse SAND with	× × ×			
15.10	0.00	D		- 15 - 15 - 15 - 15 - 15 - 15 - 15 - 15	some medium angular g [Weathered Sherwood S	ravel of Sandstone				
16.00	0.00	D		- - - -72 (2.80)						
17.00	0.00	D		- - - - - - - - - - - - - - - - - - -						
				18-	Red brown SANDSTON	E [Sherwood Sandstone].				
				19-						
					Continue	d next sheet				
 GROUNI DEPTH (	DWATER m) B	BEHAVIO	OUR Wate	ARKS er added from 2.0m bgl to 18.0m bgl.		BAE Cable Percussion Log v1.4	KEY  B - Bulk disturbed sa D - Disturbed sample G - Disturbed sample DG - Disturbed samp U - Undisturbed U10 W - Water sample S - Standard Penetra C - Standard Penetra	s (plastic tub) (glass jar) le (tub and jar) ) sample		

SITE	Woodford Phase 1 SI				CLIENT Av	ro Herit	age Ltd	BAES	YSTE	EMS	I	
	CT NUMBI		CO-ORDINATES E - 3891 N - 3818	68.62	GROUND ELEVATION 87.975	N (mAOD)	HOLE DEPTH (m) 23.00	Sheet 3 of 3	вопенов	E HR05		
METHO	D		CASING		DATE 24/01/2012	2	LOGGED BY AW	CHECKED BY	SCALE	SCALE 1:50		
SAME	LES &	TES	TS		STRATA							
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	3	LEVEL (THICKNESS) D (r	EPTH DESC	CRIPTION		LEGEND	WATER BAG	CKFILL	
						21	End of Boreho	[Sherwood Sandstone].				
						29-						
DEPTH (m) BEHAVIOUR Water added					d from 2.0m bgl to 18.0m bgl.  eneral accordance with BS EN ISO 14688  BAE Cable Percussion Log v1.					imple es (plastic tub) ( (glass jar) lole (tub and jar) 0 sample ation Test (using co	one)	

					CLI	ENT					14 61 A		
	Wo	odfor	d Phase 1	SI			A۱	ro H	Herita	age Ltd	BAE	SYST	EMS
	T NUMBE		CO-ORDINATE E - 3899 N - 3816	907.74	GROUN	ND ELE	VATION 1.546	N (mAC	DD)	HOLE DEPTH (m) 30.00	Sheet 1 of 3	ВОПЕНО	HR06
METHO	)		CASING		DATE	23/0	01/201	2		LOGGED BY AW	CHECKED BY	SCALE	1:50
	LES &	TES	TS		STR	RATA			'		•	*	
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	S	LEVEL (mAOD)	BAS (THICK) mbgl	NESS) D (m) (I	DEPTH [	DESC	RIPTION		LEGEND	WATER BACKFIL
					_ = - -	0.40	(0.40)		MA		sandy silt with organic		
							(0.30)		sub	angular gravel of con			
1.00	0.00	D			84		(1.00)	1-	Firr	n orange brown mottle	ed grey sandy CLAY.		
					- - -	1.70							
2.00	0.00	D			- 83		(1.00)	2-	Sof	t orange brown very s	andy SILT.	X X X X X X X X X X X X X X X X X X X	
					- - - -	2.70	(,		Me	dium to coarse slightly	silty SAND with	X X X X X X X X X X X X X X X X X X X	
3.00	0.00	D			82   			3-	oca	ssional fine subangula blogy.	ar gravel of mixed		
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		t to firm brown silty Cl vel.	_AY with some fine		
					- - - - -	6.70	(0.90)	-					
7.00	0.00	D			- -78 - -		(0.80)	7-		wn silty SAND with suvel of mixed lithology.			
8.00	0.00	D			- - - - -77	7.50		8-	san	n brown thinnly lamina dy CLAY with ocassic vel of mixed lithology.	onal to some subrounded		
9.00	0.00	D			- - - - - - - - - - - - -			9-				X - X - X - X - X - X - X - X - X - X -	
					- - - - -		(3.50)	1				**************************************	
10.00	0.00	D			<u> </u>			=		Continued	next sheet		
GROUNI DEPTH (	DWATER (m) B	SEHAVI	OUR	REMARKS	_						BAE Cable Percussion Log v1.4	KEY B - Bulk disturbed s D - Disturbed samp G - Disturbed samp DG - Disturbed sam U - Undisturbed U1 W - Water sample S - Standard Penett	les (plastic tub) le (glass jar) ple (tub and jar) 00 sample

SITE				CLIENT		14 C 1 C 2	O Service Super	
	Woodford Phase 1 SI  OJECT NUMBER CO-ORDINATES			Avro	Heritage Ltd	BAES	YSTE	NS
	T NUMBE		CO-ORDINATES E - 389907.74 N - 381699.12	GROUND ELEVATION (mA	HOLE DEPTH (m) 30.00	Sheet 2 of 3	BOREHOLE BHR	.06
METHOD	)		CASING	DATE 23/01/2012	LOGGED BY AW	CHECKED BY	SCALE 1	:50
	LES &	TES	TS	STRATA			· · · · · · · · · · · · · · · · · · ·	
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) DEPTH (mAOD) mbgl (m) (mbgl)	DESCRIPTION		LEGEND WA	TER BACKFIL
11.00	0.00	D		- 11.00 11 <del>-</del> -73	Firm brown thinnly lamina sandy CLAY with ocassio gravel of mixed lithology.  Firm thinnly laminated bro	nal to some subrounded		
12.00	0.00	D		- (2.00) 12				
13.00	0.00	D		- 13.00 13	Red brown SAND.			
14.00	0.00	D		- 14-5 - 70 - 14.40				
14.50	0.00	D		(0.60)	Firm brown silty CLAY wi		X X X	
15.50	0.00	D		-69	of mixed lithology.			
16.50	0.00	D						
17.00	0.00	D		- 16.80 - 17- - 67 	Red brwon fine to mediur subrounded to subangula			
18.00	0.00	D		- (2.10) - 18				
19.00	0.00	D		- 18.90 19 <del>-</del> - 65	Firm grey brown clayey s subrounded to subangula	andy SILT with or gravel.	X X X X X X X X X X X X X X X X X X X	
20.00	0.00	D		(1.60)	Continued	next sheet	( * * * * * * * * * * * * * * * * * * *	
GROUNE DEPTH (		EHAVI	OUR	ARKS		BAE Cable Percussion Log v1.4	KEY B - Bulk disturbed sample D - Disturbed samples (pla G - Disturbed sample (glas DG - Disturbed sample (flus U - Undisturbed U100 sam W - Water sample S - Standard Penetration 1 C - Standard Penetration 1	ss jar) b and jar) pple est

SITE		odfoi	rd Phase 1 SI	CLIENT Avro F	Heritage Ltd	BAE	SYSTE	MS
	T NUMBI		CO-ORDINATES E - 389907.74 N - 381699.12	GROUND ELEVATION (mAG	DD) HOLE DEPTH (m) 30.00	Sheet 3 of 3	BOREHOLE	R06
METHO	)		CASING	DATE 23/01/2012	LOGGED BY AW	CHECKED BY	SCALE	1:50
SAMP	LES 8	TES	TS	STRATA	<del>-</del>			
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) DEPTH (mAOD) mbgl (m) (mbgl)	DESCRIPTION		LEGEND V	VATER BACKFILL
24.00				20.50	Firm grey brown clayey sa subrounded to subangular Stiff brown sandy slightly s subrounded to subangular	gravel. ilty CLAY with	××××××××××××××××××××××××××××××××××××××	
21.00	0.00	D		-63 - -(2.70)	occasional cobbles.	gravorano		
22.00	0.00	D		-62 -				
23.00	0.00	D		23				
23.50	0.00	D		23.20	Red brown SAND with sub gravel of sandstone [Weath	angular to subrounded nered Sandstone]		Ш
24.50	0.00	D		- 24	Red brown SANDSTONE	Sherwood Sandstone].		Ш
				25-				Ш
				26-				
				-58 - - - - -				
				- 27				
				28-				
				29-				
				- -55 - - - - -				
GROUNII	DWATER		REMAR	30.00	End of Borehol	e at 30.00 m	KEY	
DEPTH (		BEHAVI	OUR	general accordance with BS EN ISO 14688		BAE Cable Percussion Log v1.4	B - Bulk disturbed samp D - Disturbed samples ( G - Disturbed sample ( G - Disturbed sample U - Undisturbed U100 s W - Water sample S - Standard Penetratio C - Standard Penetratio	plastic tub) lass jar) (tub and jar) ample n Test

SIT	SITE Woodford Phase 1 SI						CL	IENT		2022		
		Woo	dford Pl	nase 1	I SI			Avro Herit	age Ltd	BAES	YSTE	MS
PROJ	IECT N	UMBER	co-c	RDINAT			GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	A106	5-00		E - 38 N - 38				92.125	3.00	Sheet 1 of 1		TP01
PLAN	Т		DIME	NSIONS	;		DAT	E	LOGGED BY	CHECKED BY	SCALE	
					-			25/01/2012				1:50
			TESTS			RATA			1			
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RES	SULTS	LEVEL (mAOD)	BASE (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION				LEGEND WATER
0.20		D			_	(0.10) 0.10 (0.20) 0.30	_		Bituminous surfacing.			
0.60		D			_		=	MADE GROUND: L sandstone gravel w	oarse /			
0.00						(0.70)	-	MADE GROUND: [	Dark grey clayey silt with a	ash fragments.		
1.10 1.10		HV HV	1 - 90kPa 2 - 110kPa		91	1.00	1-	Firm to stiff red brow				
1.10 1.10 1.10		HV D	3 - 90kPa		_	(0.50)	-					
1.60		D				(0.40)	-	Soft to firm red brow				
2.00		D			90	1.90	2	Stiff light brown CL/				
					_	(1.10)	-					====
						(1.10)	=					====
3.00		D			- 89	3.00	3-	 				====
					_		_		End of Trial Pit at	3.00 m		
							=					
					- - -88		4 —					
					- 00		<b>-</b>					
							-					
					E		-					
					= 87 -		5-					
							-					
							=					
					-86		6					
					_		=					
							-					
					- 85		7-					
							-					
							-					
					- -84		8-					
							=					
							=					
					_		-					
					83 		9-					
					-		-					
					-		-					
					-		-			Luce		
DEPTH (m) BEHAVIOUR  Trial pit sides remained stable. No groundwater encountered. Trial pit backfilled with arisings.  B - Bulk disturbed sample G - Disturbed sample ES - Disturbed sample W - Water sample							KEY B. Bulk disturbed sample D. Disturbed samples (plas G. Disturbed sample (glas ES. Disturbed sample (tub a W. Water sample	tic tub) M - In Si jar) P - In Si	tu Hand Vane Test tu Mexecone CBR Test tu CBR Plate Test to Ionisation Detector			
					Materia	I logged in gene	ral accord	dance with BS 5930 (as amended) & I	BS EN ISO 14688 BAE TP	Log v1.3		

SIT						CLI	ENT		202		
	Woodford Phase 1 SI  OJECT NUMBER CO-ORDINATES E - 389737.83						Avro Herit	age Ltd	BAE	SYST	EMS
PROJ	IECT N	UMBEF	₹			GROU	IND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PI	Γ
	A106	5-00			89737.83 82852.39		91.717	3.90	Sheet 1 of 1		TP02
PLAN	Т			DIMENSION	S -	DATE	20/01/2012	LOGGED BY	CHECKED BY	SCALE	1:50
SAN	/PLE	S & 7	TES	TS	STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST	T RESULTS	LEVEL BASE (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION				LEGEND WATER
					(0.05) 0.05		MADE GROUND: B	ituminous surfacing.			
					0.25)	1	MADE GROUND S				
0.45 0.65		D HV	1 - 0	96kPa	(0.20)	4			angular gravel with occas	sional	
0.65 0.65		HV HV	2 - 1	20kPa 08kPa	-	]	\ bricks.				
0.65		D	3-1	UOKPa	91	1-	MADE GROUND: C	range brown mottled unded to subangular o	grey slightly gravelly clay	/. Gravel is	
					(1.80)	=	ille to coarse subro	unded to subangular t	of brick.		
1.55		HV		70kPa	(1.00)	=					
1.55		HV		75kPa 34kPa	-	=					
1.55		D			90	2-					
					2.30	1	Firm orange brown	CLAY with some veins	s of arey sandy clay		
2.45 2.45		HV HV	2 - 5	60kPa 50kPa	-	=	Filli Grange brown	CLAT WITT SOME VEID	s of grey sarity clay.		
2.45 2.45		HV D	3 - 6	65kPa	(1.10)	=					
					89	3					
					3.40	1					
3.50		D			(0.30)	=	Soft black brown loa	amy PEAT with rootlet	ts.		بعادر بعادی در بعادی بادی بعادر بعادی بعادی
3.90		HV	1 3	30kPa	(0.20) 3.70	Ī	Soft grey slightly sa	ndy SILT with occasio	onal organic fragments.		××××× ××××
3.90 3.90		HV HV	2 - 2	24kPa 30kPa	88	4		End of Trial P	it at 3.90 m		5,000 co. 00 anno 00
3.90		D	3 - 3	DUKPa	-	4					
						3					
					-	4					
					87	5 -					
					-	=					
						3					
					_	4					
					-86	6					
					-	=					
					E	=					
					-	=					
					85	7-					
					<u> </u>	=					
					E	=					
					-	=					
					84	8					
					-	=					
					Ė	Ė					
					E	=					
					83	9 -					
					E	=					
					-	=					
					E	=					
					-	‡					
GROL	JNDWA	TER	1		REMARKS				KEY		0%
DEPT	H (m)	BE	HAVI	OUR	Trial pit sides r	emaine	d stable. No groundwater	encountered. Trial pit	B - Bulk disturbed sam D - Disturbed samples G - Disturbed sample	(plastic tub) M - Ir	Situ Hand Vane Test Situ Mexecone CBR Test Situ CBR Plate Test
					backfilled with	ansings	•		ES - Disturbed sample W - Water sample		hoto Ionisation Detector
					Material logged in gene	ral accorda	nce with BS 5930 (as amended) & E	BS EN ISO 14688 BA	AE TP Log v1.3		

SIT	SITE Woodford Phase 1 SI					CL	IENT						
		Woo	dford	d Phase	1 SI		Avro Herit	age Ltd		BAES	YSTE	MS	
PROJ	ECT N	JMBEF	3	CO-ORDINA		GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m)			TRIAL PIT		
	A106	5-00			9560.90 32805.14		90.803	3.30		Sheet 1 of 1	-	TP03	
PLAN	T		[	DIMENSIONS	<u> </u>	DAT	E	LOGGED BY	CHECK	ED BY	SCALE		
					-		23/01/2012	AH				1:50	
SAN	1PLE	S & 7	TES1	ΓS	STRATA								
				RESULTS	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION					LEGEND WATER	
					(0.20)		MADE GROUND: 0	Concrete					
0.30		D			(0.20)	=	MADE GROUND: [	Dark brown sandy gravel d aggregate. Unidentified	with som	e cobbles. Gravel	is		
0.60 0.60		HV HV	1 - 80 2 - 11	0kPa ∣0kPa	_	-	Stiff light brown slightly sandy CLAY.						
0.60 0.60 0.80		D B HV	3 - 10	∩kPa	90 (1.00)	1-	-						
1.00		D	0 - 10	oki a	- - 1.40	-							
					-	-	Firm to stiff light bro	own sandy CLAY.					
2.00		D			- 89	2-							
2.00					-								
					(1.90)	-							
					_	-							
3.00		D			88 -	3-							
					3.30	-		End of Trial Pit a	at 3.30 m				
						=							
					_ 87	4-							
						=							
						=							
					- 86	5-							
					- 80	-							
						-							
					-	=							
					-85	6-							
						=							
					-	=							
					 84	7-							
						=							
						=							
					- 00	-							
					83 - -	8-							
					<u> </u>	-							
					-	=							
					 82	9 -							
					<u>-</u>	-							
					-	=							
						=							
GROUNDWATER DEPTH (m) BEHAVIOUR Trial pit sides backfilled with					Trial pit sides	remain	ed stable. No groundwater s.	encountered. Trial pit	E	GEY  B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass ja S - Disturbed sample (tub and W - Water sample	tub) M - In Site ar) P - In Site	u Hand Vane Test u Mexecone CBR Test u CBR Plate Test o Ionisation Detector	
					Material logged in gen	eral accor	dance with BS 5930 (as amended) & I	BS EN ISO 14688 BAE T	ΓP Log v1.3				

SITE Woodford Phase 1 SI					CLIENT							
		Wood	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS			
PROJ	JECT N	JMBER	CO-ORDINA	TES	GROUNI	D ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
	A1065	5-00		39717.95 32891.27		91.649	3.30	Sheet 1 of 1	TP04			
PLAN	IT		DIMENSIONS	3	DATE		LOGGED BY	CHECKED BY	SCALE			
				-		25/01/2012			1:50			
SAN	/PLE	S&T	ESTS	STRATA	1							
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL BASE (THICKNESS) mbgl (m)	DEPTH DE	ESCRIPTION			LEGEND WATER			
				L (0.40)		MADE GROUND: B	Bituminous surfacing					
0.20		D D		(0.10) 0.10 (0.20) 0.30 (0.20) 0.50			'ellow brown subangular to	o subrounded medium to	coarse sand			
0.70 0.70		D B		-  -  -			Black sandy subangular fin	e to medium gravel of asl	n and			
				-91 <sub>(1.10)</sub>	1⊣ └		Reworked light brown sand	ly clay.				
1.50		D		1.60		MADE CROUND:	Park brown original topsoil	with plant material and al	999			
2.00		D		- -90 <sup>(0.60)</sup>	2	IVIADE GROUND. L	zark brown original topson	with plant material and gi	ass.			
				2.20		Soft to firm grey brown sandy CLAY.						
				- (1.10)	-							
				89	3-							
3.30		D		3.30	+-		End of Trial Pit at 3	3.30 m				
				E-88 - -	4-							
				- 87	5							
				<u>-</u>								
				E								
				86	6							
					=							
					_ =							
				E-85 - -	7-							
					=							
				- 84	8-							
				E								
				-	1							
				- - 83 -	9-							
				<u> </u>	-							
				<u>-</u> -	=							
000:	INDV	TED		- DEMANDICE	1			KEY				
l	PEPTH (m) BEHAVIOUR Trial pit remainders.  REMARKS  Trial pit remainders.					No groundwater encou	untered. Trial pit backfilled with	B - Bulk disturbed sample	r) P - In Situ CBR Plate Test			
				Material logged in gener	al accordance	with BS 5930 (as amended) & F	3S EN ISO 14688					

SIT		Woo	dford Phase	e 1 SI	CLIENT Avro Herit	tage Ltd	BAES	YSTEMS				
						I	-	TRIAL DIT				
PROJ	IECT N			NATES 389347.74	GROUND ELEVATION (mAOD)		Sheet 1 of 1	TRIAL PIT				
	A106	5-00	N -	382676.35	90.915	3.10	Sheet 1 of 1	TP05				
PLAN	Т		DIMENSIC	NS -	DATE 20/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50				
SAN	/IPLE	S & 1	TESTS	STRATA								
			TEST RESULTS		DEPTH (mbgl) DESCRIPTION			LEGEND WATER				
				(0.10) 0.10 (0.25)	MADE GROUND: F	Reinforced concrete. Slig	ht Vinyl Chloride odour pre	sent on				
0.45		D		0.35	MADE GROUND C	oncrete sub base						
0.70 0.70		HV HV	1 - 108kPa 2 - 64kPa	0.70		Black ashy sandy gravel	-					
0.70 0.70		HV D	3 - 65kPa	<del>-</del> 90 - -	1 Firm orange brown Becomes stiff with	mottled grey CLAY with depth. Soil too friable for	lenses of fine grey sand. hand vane at 1.5m bgl.					
1.50		D		(1.50)	1			And the second s				
				-	1							
				<del>-</del> 89 - 2.20	2-							
2.50		D		-	<ul><li>Stiff orange brown sand.</li></ul>	mottled grey CLAY with r	rare lenses of fine orange					
				(0.90)								
3.10	3.10 HV 1 - 130kPa - 88 3.				3-							
3.10					=	End of Trial Pit a	t 3.10 m					
				-	=							
				- 87	4-							
				F 67	<b>"</b>							
				F	=							
				-	=							
				<del>-</del> 86	5 -							
				Ē	-							
				-	]							
				- 85	6—							
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				<del>-</del> 84 -	7—							
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				<del>-</del> 83	8 -							
				E	=							
				-	=							
				- 82	9-							
				- 52								
				F	1							
				E	1							
				-	-		Luev					
GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit sides rei backfilled with an				Trial pit sides r	emained stable. No groundwater	encountered. Trial pit	KEY  B - Bulk disturbed sample  D - Disturbed samples (plastic  G - Disturbed sample (glass ja  ES - Disturbed sample (tub and  W - Water sample	ar) P - In Situ CBR Plate Test				
				Material logged in gene	ral accordance with BS 5930 (as amended) &	BS EN ISO 14688 RAE T	Plog v1 3					

SITE					CLIENT			
		Woo	dford Phase	e 1 SI	Avro Heri	tage Ltd	BAES	YSTEMS
PROJ	ECT N	JMBER	CO-ORDIN	IATES	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A106	5-00		389500.30 382726.07	90.763	2.80	Sheet 1 of 1	TP06
PLAN	Т		DIMENSIO	NS	DATE	LOGGED BY	CHECKED BY	SCALE
				-	23/01/2012			1:50
SAN	/IPI F	S & 1	TESTS	STRATA				
TOP (mbgl)			TEST RESULTS		DEPTH (mbgl) DESCRIPTION			LEGEND WATER
(IIIUgi)	(mbgi)					Concrete		14.5-7.3-7
0.30		D		(0.20) (0.20) (0.20) 0.40	MADE GROUND:		with some brick fragments.	i i i i i i i i i i i i i i i i i i i
0.60		D		0.40	Firm to stiff light bro		with some blick fragments.	
0.80		HV	1 - 100kPa	Ė	- I min to sun light bit	SWIT OLAT.		====
0.80		HV HV	2 - 85kPa 3 - 80kPa	90 (1.00)	1-			<u> </u>
1.10		D		1.40	=			
				1.40	Soft to stiff light bro	wn silty CLAY with occa	sional sand lenses.	×
				E	=			×_×_×
2.00		D		89 (1.40)	2-			<u>x</u> _ <u>x</u> _x
				E	=			× ×
				F	_			<u>×_*</u> _ <u>×</u>
2.80		D		2.80				<del>x_*</del>
				88	3-	Eliu di Tilai Fil a	at 2.00 III	
				ļ.	]			
				E	_			
				<u> </u>	]			
				87	4-			
				ļ.	]			
				E	_			
				F	]			
				86	5-			
				F	]			
				E	=			
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				<del>-</del> 85	6-			
				F	_			
				E	=			
				Ė				
				E-84 -	7—			
				E	=			
				F	]			
				- -83	8-			
				- 63				
				-	=			
				Ė	-			
				- 82	9—			
				<u> </u>				
				-	]			
				E	=			
				-	=			
GROU	JNDWA	TER	<u> </u>	REMARKS			KEY	
DEPT			HAVIOUR		emained stable. No groundwater	r encountered. Trial pit	B - Bulk disturbed sample D - Disturbed samples (plast G - Disturbed sample (glass ES - Disturbed sample (tub ar W - Water sample	jar) P - In Situ CBR Plate Test
				Material logged in gene	ral accordance with BS 5930 (as amended) &	BS FN ISO 14688	TD Legy 4.2	

SITE Was differed Phases 4.01					CL	IENT				
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTE	WS
PROJ	ECT NU	JMBER	CO-ORDINA	TES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	A1065	5-00		39626.06 82716.70		90.819	2.70	Sheet 1 of 1	T	P07
					DAT		LOCOTORY	OUEOKED DV		
PLAN <sup>1</sup>	1		DIMENSION	-	DAT	23/01/2012	LOGGED BY	CHECKED BY	SCALE 1	:50
				I · - ·						
			TESTS	STRATA  LEVEL BASE	DEDTH				I.	
(mbgl)	(mbgl)	TYPE	TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			L	EGEND WATER
0.30		D		(0.20)	=	MADE GROUND: C				
				0.20 (0.20) 0.40	=	MADE GROUND: E of bricks.	Black gravelly sand with re	worked clay with ash and	d cobbles	
0.60		D		(0.80)	=	Firm to stiff light bro	own CLAY.			
1.00		D		90	1-					-3-5
				- - 1.20	-	Stiff light brown CL/	AY with sand lenses.			
					=					
1.90		D		- (1.50)	_					
				= 89 <sup>(1.50)</sup>	2-					
				_	-					
2.70		D		2.70	=					====
				- 88	3-		End of Trial Pit at :	2.70 m		
				_	=					
				_ _	=					
				= = =	_					
				87	4					
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				_	_ =					
				<del>-</del> 86	5-					
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				_ 85	6-					
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				-				Lumi		
GROUNDWATER  DEPTH (m) BEHAVIOUR  Stiffness of cla groundwater e					y slow	ed down excavation. Trial tered. Trial pit backfilled wi	pit remained stable. No th arisings.	KEY  B - Bulk disturbed sample D - Disturbed samples (plasti G - Disturbed sample (glass j ES - Disturbed sample (tub an W - Water sample	ic tub) M - In Situ M jar) P - In Situ C	and Vane Test execone CBR Test BR Plate Test nisation Detector
				Material logged in gene	ral accor	dance with BS 5930 (as amended) & I	BS EN ISO 14688 BAE TP I	Log v1.3		

SITE Woodford Phase 1 SI					CLI	ENT		26 6 2 23		
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS	
PRO	JECT N	UMBEF			GROL	JND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	A106	5-00		39717.61 32710.42		91.233	3.70	Sheet 1 of 1	TP08	
PLAN	IT		DIMENSIONS	3	DATE		LOGGED BY	CHECKED BY	SCALE	_
				-		-			1:50	
SAN	ЛРLЕ	S & 7	TESTS	STRATA	1		<u> </u>	1		
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION			LEGEND WAT	ΓER
				(0.05) 0.05 (0.30)	1	MADE GROUND: E	Situmen surfacing			
				0.35	1	MADE GROUND: E	Black sandy angular to subssional cobbles of brick.	pangular gravel of brick, c	oncrete	
					=	MADE GROUND: B	Brown mottled orange and	grey sandy clay with org	anic silt	
				90 (1.25)	1-	lenses.				
				-	1					
				1.60	7	MADE GROUND: E	Black sandy silt with organ	ic odour [former topsoil] v	vith	
				- -89 <sub>(0.90)</sub>	2	ocassional fine to m	nedium angular to subang	ular gravel of brick.		
				- (	=					
				2.50	}	Firm blue grey sand	ly CLAY with angular to s	ubrounded gravel of mixe	d	
					3	lithology. Some to n sand.	nany leses (<500mm) of v	ery silty fine to medium		
				-88 - (1.20)	•					
				-	3					
				3.70	}		End of Trial Pit at		See Class South	
				87	4-					
				-	=					
				Ē	=					
				86	5					
				-	=					
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				_ 85	6					
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					-					
				<del>-</del> 84	7-					
					=					
				83	8-					
					=					
				_						
				_ 82	9-					
				<u> </u>						
				E	=					
				E	=					
GPO	INDIA/A	TEP		DEMARKS				KEY		4
GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit remaine arisings.						le. No groundwater encoi	untered. Trial pit backfilled wit	B - Bulk disturbed sample	ar) P - In Situ CBR Plate Test	est
				Material logged in general	ral accorda	nnce with BS 5930 (as amended) & E	3S EN ISO 14688 BAE TP	Log v1.3		

SIT					CLIENT  Avro Heritage Ltd		4144	VOTENO
		Woo	dford Phase	1 SI	Avro Herit	tage Ltd	BAES	YSTEMS
PRO	JECT N	UMBEF			GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A106	5-00		39802.25 32666.43	90.089	0.90	Sheet 1 of 1	TP09
PLAN	IT		DIMENSIONS	3	DATE	LOGGED BY	CHECKED BY	SCALE
				-	-			1:50
			TESTS	STRATA				
(mbgl)	(mbgl)	TYPE	TEST RESULTS	LEVEL BASE (THICKNESS) mbgl (m)	DESCRIPTION			LEGEND WATER
				(0.70)	- MADE GROUND: E	Black sandy silt with orgar	nic odour.	
				0.70	- MARE ORGUND			
				(0.20) 89	1 MADE GROUND: 0	Grey mottled orange sand End of Trial Pit at		
					]			
				_	]			
				- - 88	2-			
				_ 00				
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				- 	-			
				<del>-</del> 87 -	3-			
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				<del>-</del> 86	4-			
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					-		NEA.	
	UNDWA 「H (m)		HAVIOUR	REMARKS Trial pit remain arisings.	ed stable. No groundwater enco	untered. Trial pit backfilled wi	KEY  B - Bulk disturbed sample D - Disturbed samples (plass G - Disturbed sample (glass ES - Disturbed sample (tub ar W - Water sample	jar) P - In Situ CBR Plate Test
				Material logged in gener	al accordance with BS 5930 (as amended) &	BS EN ISO 14688 BAE TF	2 Log v1.3	

SIT		Woo	dford Pha	se 1 SI	CLIENT  Avro Heritage Ltd			BAES	YSTEMS				
		VV00	ulolu Fila	SE 1 31		Avionem	age Liu						
PROJ	IECT N			DINATES E - 389322.79	GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m) 3.00	Sheet 1 of 1	TRIAL PIT TP10				
	A106	5-00		N - 382720.41		90.688							
PLAN	Т		DIMENS	SIONS -	DAT	E 25/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50				
SAN	/PI F	S & T	TESTS	STRATA									
			TEST RESUL		DEPTH (mbgl)	DESCRIPTION			LEGEND WATER				
				(0.10) 0.10	_	MADE GROUND: E	Bituminous surfacing.						
0.30		D		(0.50)	-	MADE GROUND: Light brown sandy cobbly subangular medium to coarse gravel of sandstone, concrete and brick.							
0.65 0.70		D HV	1 - 120kPa	- 0.60	-	Stiff light red brown			====				
0.70 0.70 1.00		HV HV HV	2 - 110kPa 3 - 90kPa 4 - 110kPa	90 (0.75)	1-								
1.00 1.00 1.00		HV HV D	5 - 100kPa 6 - 75kPa	1.35	-	Light brown clayey	fine to medium SAND.						
1.40		D		1.65	-	Stiff light brown mo	ttled grey CLAY. Soil is fri	able.	====				
2.00		D		<del>-</del> 89	2								
				(1.35)	-								
				-	-								
3.00		D		88 3.00	3		End of Trial Pit at	3.00 m					
					=								
				-	-								
				<del>-</del> -87	4								
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				- <del></del>	- -								
- - - -													
GROL	JNDWA	TER	<u> </u>	REMARKS	<u>-</u>			KEY					
DEPT	Ή (m)	BE	HAVIOUR			ble. No groundwater enco	untered. Trial pit backfilled witl	B - Bulk disturbed sample h D - Disturbed samples (plast G - Disturbed sample (glass, ES - Disturbed sample (tub an W - Water sample	jar) P - In Situ CBR Plate Test				
				Material logged in gene	eral accor	dance with BS 5930 (as amended) & I	BS EN ISO 14688 BAE TP	Log v1.3					

SITE			CLIENT			
Woodford	d Phase 1 S	SI	Avro Herit	age Ltd	BAES	YSTEMS
PROJECT NUMBER	CO-ORDINATES E - 38968		GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
A1065-00	N - 38259		91.127	3.30	Sheet 1 of 1	TP11
PLANT [	DIMENSIONS		DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50
0.4451.50.0.7507	-		1770 1720 12			1.50
SAMPLES & TEST		STRATA  EVEL (THICKNESS) D	DESCRIPTION			LEGEND WATER
TOP (mbgl) BASE TYPE TEST  0.40 D  0.90 HV 2-94 HV 3-90 PD  1.75 D  2.00 HV 2-34 HV 2-34 PV 3-18 PV 3-	4kPa	EVEL (THICKNESS) 0 (0.75)  (0.75)  0.75  90 (0.75)  1.50 (0.30) 1.80  89 (0.50) 2.30  87  86  87	mbgl) DESCRIFTION	grey CLAY.  SILT.	obly organic silt. Cobbles a	
GROUNDWATER DEPTH (m) BEHAVIO	= 8 -	arisings.	8		G - Disturbed sample (glass jar ES - Disturbed sample (tub and W - Water sample	r) P - In Situ CBR Plate Test

SIT	SITE  Woodford Phase 1 SI							JENT		2022				
		Woo	dfor	d Phase 1	1 SI			Avro Herit	age Ltd	BAES	YSTE	NS_		
PROJ	IECT N	UMBER	3	CO-ORDINA <sup>-</sup> E - 38		64	GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
	A106	5-00		N - 38				90.728	3.50	Sheet 1 of 1	TP	12		
PLAN	Т			DIMENSIONS	6		DAT	E 20/01/2012	LOGGED BY	CHECKED BY	SCALE 1	:50		
CVI	/IPLE	C 0 7	LE C.	TO	ет	RATA		20/0 //20/12						
				RESULTS	LEVEL (mAOD)		DEPTH (mbgl)	DESCRIPTION			LI	EGEND WATER		
					F	(0.20)	-	MADE GROUND: 0	Concrete.					
						(0.45)	-	MADE GROUND: S	Subase with some brick ar	nd sandstone boulders				
0.85		D			-	0.65 (0.40)	-	MADE GROUND: Reworked dark grey silt/clay worked with soft orange brown silt/clay.						
1.20								silt/clay.  Soft orange sandy CLAY with pockets of fine grey sand.						
1.20 1.20	1.20							Firm orange brown	CLAY with veins of fine g	rev sand	20 20 20 20 20			
1.70 1.70 1.70	.70									,	50 25 25 25			
1.70								Firm orange brown mottled grey CLAY with occasional pockets of orange						
2.60	.60 D							sand.		, , , , , , , , , , , , , , , , , , ,				
	.00													
	<del>-</del> 88													
3.50	3.50 D = 3.								End of Trial Pit at	3.50 m				
					- 87		4-	-						
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					-		-							
					- 86		5-							
							-							
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					- 85		6							
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					- 83		8-							
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=-82 - -							9-							
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							-							
GROL	GROUNDWATER REMARKS						=======================================			KEY				
DEPT								able. No groundwater enco	untered. Trial pit backfilled wit	h B - Bulk disturbed sample D - Disturbed samples (plast) G - Disturbed sample (glass ES - Disturbed sample (tub an W - Water sample	jar) P - In Situ CE	execone CBR Test BR Plate Test		
					Materia	al logged in gene	ral accor	dance with BS 5930 (as amended) & E	3S EN ISO 14688 BAE TP	Log v1.3				

SIT	SITE Woodford Phase 1 SI							_IENT Avro Herit	BAES	YSTE	MS			
									<b>.</b>	Company Company				
PROJ	ECT N	JMBER	۲ (	CO-ORDINA <sup>-</sup> E - 38		83	GRO	OUND ELEVATION (mAOD)			TRIAL PIT			
	A106	5-00		N - 38				90.648	3.30	Sheet 1 of 1	T	P13		
PLAN	Т		[	DIMENSIONS	6		DAT		LOGGED BY	CHECKED BY	SCALE	4.50		
					-			24/01/2012				1:50		
	1PLE					RATA	DEDTU	T				l l		
(mbgl)	(mbgl)	TYPE	TEST	RESULTS	LEVEL (mAOD)	mogr (m)	DEPTH (mbgl)	1				LEGEND WATER		
					_	(0.10) 0.10 (0.35)	-	MADE GROUND: 6		-t b	/			
0.60		D			-	0.45	-	MADE GROUND: Concrete with reinforcement bar.  MADE GROUND: Black sandy sub angular fine to coarse gravel of ash with						
	(0.45)							whole bricks and sa	indstone cobbles.	no to occide graver or de				
1.00	1.00   HV   1 - 110kPa							Firm to stiff light bro	own sandy CLAY.					
1.00	1.00   HV   3 - 100kPa   - (0.60)   1.00   D													
1.70								Soft to firm light bro organic silt.	wn silty sandy CLAY with	lenses of black/grey		X X X		
	- - - 89											× × ×		
					Ē	(1.50)	-					× × ×		
					Ē		-							
												×-×-×2		
3 30	- (0.30)							Dark grey organic S	SILT. 			$\times$ ' $\eta v \times \times \times$ ' $\eta v \times \times \times$ ' $\eta v \times \times \times$		
3.30									End of Trial Pit at	3.30 m				
					Ė		-							
					-87		4 -							
					_		-							
					-		-							
					- -⊢86		5-							
					-		-							
					_		-							
					E		-	-						
					E-85 E		6-	-						
					F									
					F		-	-						
					84		7-							
					E									
					E		-							
					- 83		8-							
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					-		-							
					Ė		-	1						
-82							9-	-						
					-		-							
-							-							
							-							
	GROUNDWATER  DEPTH (m)  BEHAVIOUR  Trial pit rema arisings.							able. No groundwater enco	untered. Trial pit backfilled with	B - Bulk disturbed sample D - Disturbed samples (plast G - Disturbed sample (glass ES - Disturbed sample (tub ar) W - Water sample	ic tub) M - In Situ jar) P - In Situ	Hand Vane Test Mexecone CBR Test CBR Plate Test Ionisation Detector		
					Materia	al logged in gene	ral acco	rdance with BS 5930 (as amended) & I	3S EN ISO 14688 BAE TP	Log v1.3				

SIT	E				CLIENT			
		Woo	dford Phase	1 SI	Avro Heri	itage Ltd	BAES	YSTEMS
PROJ	IECT N	UMBER	CO-ORDINA	ATES	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A1065	5-00		389509.40 382530.33	90.726	3.40	Sheet 1 of 1	TP14
PLAN	т		DIMENSION		DATE	LOGGED BY	CHECKED BY	SCALE
LAN			DIVILIVOIO	-	20/01/2012	LOGGED B1	CHECKED BY	1:50
SAN	/DI E	S & 1	TESTS	STRATA				
TOP (mbgl)			TEST RESULTS		DESCRIPTION			LEGEND WATER
(IIIDGI)	(mbgi)			(0.05) 0.05		Bituminous surfacing		
				(0.35)	MADE COOLIND:	Concrete with hydrocarbo	n staining	
				(0.30)	MADE GROUND:	Gravel and cobbles with p		aining
0.90 0.90 0.90		HV HV HV	1 - 98kPa 2 - 78kPa 3 - 130kPa	90 (0.75)	1 Firm to stiff orange	brown mottled grey CLA	Υ.	
0.90 0.90		B D		1.45				
1.60		D		(0.65)	Firm to stiff orange sand.	brown mottled grey CLA	Y with pockets of fine orar	nge
				89 2.10	2			The state of the s
2.40		D		2.10	Stiff orange brown	mottled grey CLAY		
2.40		ט			=			
				(1.30)				I-I-I
				<del>-</del> 88	3-			
3.40		D		3.40	1	End of Trial Pit at	 t 3.40 m	
					- - -			
				87	4-			
				-				
				_				
				- 86	5—			
				F ***				
				E	=			
				F	=			
				85	6-			
				Ē	]			
				- 84	7			
				-	=			
					=			
				<u> </u>				
				<del>-</del> 83	8-			
				-	1			
					=			
				82	9-			
				Ė	=			
				E	1			
				E	=			
GROU	JNDWA	TER		REMARKS			KEY	
	H (m)		HAVIOUR		ned stable. No groundwater enco	ountered. Trial pit backfilled wi	th  B - Bulk disturbed sample D - Disturbed samples (plast G - Disturbed sample (glass ES - Disturbed sample (tub ar W - Water sample	jar) P - In Situ CBR Plate Test
				Material logged in gene	eral accordance with BS 5930 (as amended) 8	BS EN ISO 14688	21-2-42	

SIT	Έ				CI	JENT						
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS	k		
PROJ	ECT N	JMBER			GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
	A1065	5-00		39744.98 82548.61		90.238	2.70	Sheet 1 of 1	TP15			
PLAN	т —		DIMENSIONS		DAT	F	LOGGED BY	CHECKED BY	SCALE			
,	•		BIWENOION	-		17/01/2012	LOGGED B1	ONEONED DI	1:50			
SAN	/PI F	5 & 1	TESTS	STRATA								
TOP (mbgl)			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND W	ATER		
0.10		D		(0.20)		MADE GROUND: E	Black ashy sandy gravel					
0.40		D		0.20	-		Orange brown cobbly clay.	Cobbles are large suban	gular to			
0.90		D		0.75	-	Orange medium SA	ND					
0.50				<del>-</del> 89 -	1-							
				(1.05)	-							
						Orange medium gravelly SAND. Gravel is medium subrounded of mixed						
				1.80	2-	Orange medium gra	avelly SAND. Gravel is me	dium subrounded of mixe	ed			
2.10		D		(0.90)	-	lithology.						
				<u>-</u>								
				2.70	-		End of Trial Pit at	2.70 m				
				<del>-</del> 87 -	3-							
				- -								
				-								
				- 86	4 -							
				-	-							
				-	-							
				-	-							
				85	5-							
				_								
				- - -	-							
				- 84	6-							
				<u>-</u> -	-							
				[ -	-							
				-	-							
				-83	7-							
				E	-							
				Ė	-							
				- 82	8-							
				=								
				-	-							
				E	-							
				<del>-</del> 81	9-							
				Ė	-							
				Ė	-							
GROUNDWATER REMARKS						1		KEY				
DEPT	H (m)	BE	HAVIOUR			able. No groundwater encou	untered. Trial pit backfilled with	B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed samples (glass je ES - Disturbed sample (tub and W - Water sample	ar) P - In Situ CBR Plate Test	Test		
				Material logged in gene	ral acco	dance with BS 5930 (as amended) & E	BS EN ISO 14688 BAE TP I	Log v1.3				

SIT	E				CLIENT		- M 21 - 20						
		Woo	dford Phase	1 SI	Avro Herit	tage Ltd	BAES	YSTEMS					
PROJ	ECT N	JMBER			GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT					
	A1065	5-00		89804.71 82555.07	89.702	3.00	Sheet 1 of 1	TP16					
PLAN	Т		DIMENSION	S	DATE	LOGGED BY	CHECKED BY	SCALE					
				-	17/01/2012			1:50					
SAN	1PLE	S & 7	TESTS	STRATA	<u>I</u>		.						
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	DESCRIPTION			LEGEND WATER					
0.10		D		(0.20)	Soft brown clayey 1	TOPSOIL							
0.40		HV HV	1 - 90kPa 2 - 92kPa	- 0.20	Firm to stiff orange	brown CLAY/SILT		× × × × × × × × × × × ×					
0.40 0.40 0.40		HV D	3 - 92kPa	(0.90)	=			6×××× ×××××					
				89	1-								
1.40		D		-	Orange medium SA	AND.							
1.10		J			=								
				- 88	2-								
				-88 <sub>(1.90)</sub>	<b>2</b>								
2.40		D		-									
				-									
				87 3.00	3	3							
				-									
				- 86	4								
					=								
				-	1								
				-	_ =								
				85 	5—								
				_	1								
				-	=								
				84	6-								
				_									
				- -83	7								
				-									
				-	=								
				82 	8-								
				_									
				E	=								
				- -81	9-								
				-	=								
				E	1								
				-	=								
GROU	JNDWA	TER		REMARKS	<u> </u>		KEY						
DEPT	H (m)	BE	HAVIOUR		ed stable. No groundwater enco	untered. Trial pit backfilled wit	B - Bulk disturbed sample D - Disturbed samples (plasti G - Disturbed sample (glass) ES - Disturbed sample (tub an W - Water sample	jar) P - In Situ CBR Plate Test					
				Material logged in gener	ral accordance with BS 5930 (as amended) &	BS EN ISO 14688 BAE TP	Log v1.3						

SIT	Έ					CL	IENT			350 50 51 5 3 3				
		Woo	dford	d Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS				
PROJ	IECT N	UMBEF	2	CO-ORDINA		GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT				
	A106	5-00			90016.62 32545.35		87.391	3.00	Sheet 1 of 1	TP19				
PLAN	T		[	DIMENSIONS		DAT		LOGGED BY	CHECKED BY	SCALE				
					-		25/01/2012			1:50				
SVI	/IPLE	S & 7	TEST	rs	STRATA									
				RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND WATE				
(IIIDGI)	(mbgi)				(IIAOD) mbgl (m)	(IIIDGI)		Dark grey topsoil with som	ne alaes					
0.30		D			(0.60)	-	WINDE CHOONE.	ount grey topoon with son	ic glass.					
0.70		1.07	4 5	Ok-De	0.60	-	Soft light orange brown sandy CLAY.							
0.70 0.70 0.70	0.70 HV 3 - 50kPa						Soft light orange bit	OWIT Salluy CLAT.						
0.70	0.70 D - 86 - 86 - 1.10 HV 4 - 30kPa - (0.10) 1.							5 ( E OAND		The control of the co				
1.10 1.10		HV HV	5 - 30 6 - 30		F	=	Light brown clayey fine to medium SAND.							
1.10 1.80		D D			(0.60)	=	Orange brown fine to medium SAND.							
2.00		D			- - 85	2	Very soft grey sligh	tly sandy CLAY.		The second of th				
					(0.60)	=								
					2.50	=	Very soft light grey	SILT.		× × × × × × ×				
					(0.50)	_				× × × ×				
3.00		D			84 3.00	3-		End of Trial Pit at	3.00 m	#2 (24) (24) (24)				
					-	=								
						-								
					- 83	4								
					_	-								
						=								
						-								
					82 	5-								
						=								
					_	-								
					- 81	6-								
						=								
						=								
					-	-								
					<del>-</del> 80	7-								
						=								
					_	-								
					- 79	8-								
						=								
						=								
-														
-78 -														
-														
						=								
						-								
GROUNDWATER REMARKS						-	<u> </u>		KEY	HV - In Situ Hand Vane Test				
DEPT	H (m)	BE	HAVIC	OUR	Unstable colla	ose of	sidewalls from 1.8m. Trial	pit backfilled with arisings.	B - Bulk disturbed sample D - Disturbed samples (plast G - Disturbed sample (glass	tic tub) M - In Situ Mexecone CBR Test jar) P - In Situ CBR Plate Test				
									ES - Disturbed sample (tub ar W - Water sample	nd jar) PID - Photo Ionisation Detector				
					Material logged in gene	ral accord	dance with BS 5930 (as amended) &	BS EN ISO 14688 BAE TP	Log v1.3					

SIT	E				CLIENT			
		Woo	dford Phase	1 SI	Avro Herit	age Ltd	BAES	YSTEMS
PROJ	ECT N	UMBER	CO-ORDINA	TES	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A106	5-00		39467.04 32458.62	88.908	0.40	Sheet 1 of 1	TP20
PLAN <sup>1</sup>	т		DIMENSIONS		DATE	LOGGED BY	CHECKED BY	SCALE
FLAIN	1		DIMENSIONS	-	24/01/2012	LOGGED BY	CHECKED BY	1:50
			TESTS	STRATA	DEPTH DECODIDATION			LEGEND WATER
(mbgl)	(mbgl)	TYPE	TEST RESULTS		DESCRIPTION			LEGEND WATER
0.15		D		(0.10) 0.10 (0.20) (0.10) 0.30 (0.10) 0.40	1	Bituminous surfacing		
0.40		D		(0.10) 0.40	1,	Grey sandy subangular fine	e to coarse gravel of conc	rete.
				_	Firm to stiff grey sa	End of Trial Pit at (		
				-88	1-			
				_	-			
				_	_			
				- 87	2-			
				- 01				
				_	]			
				- - -	-			
				86	3-			
				_				
				-	=			
				- 05	_ =			
				85 	4			
				_	=			
				-	=			
				- 84	5-			
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				-	]			
				_	-			
				83 -	6-			
				_	_			
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				 82	7—			
					]			
				<u>-</u>	1			
				<u> </u>	1			
				<del>-</del> 81	8-			
				-	=			
				<u> </u>	]			
				- 80	9-			
				<u>-</u>	1			
				_	1			
				E	1			
				_	4		I	
GROU DEPT	INDWA H (m)		HAVIOUR	REMARKS Large water ing arisings.	ress at 0.4m Trial pit remained s	stable. Trial pit backfilled with	KEY  B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass ja ES - Disturbed sample (tub and W - Water sample	r) P - In Situ CBR Plate Test
				Material logged in gener	al accordance with BS 5930 (as amended) & I	BS EN ISO 14688 BAE TP L	_og v1.3	

SIT	SITE							.IENT					
		Woo	dfor	d Phase	1 SI			Avro Herit	age Ltd	BAES	YSTE	MS	
PROJ	ECT N	JMBER		CO-ORDINA	TES		GRC	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT		
	A106	5-00		E - 38				91.632	2.70	Sheet 1 of 1	-	TP21	
				N - 38		.83							
PLAN	Т			DIMENSIONS	3		DAT	E 26/01/2012	LOGGED BY	CHECKED BY	SCALE	1:50	
					_			20/01/2012				1.50	
	1PLE					RATA							
TOP (mbgl)	BASE (mbgl)	TYPE	TES	T RESULTS	(mAOD)	BASE (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION				LEGEND WATER	
0.05		D			Ė	(0.10) 0.10	=	MADE GROUND: 0	Grass over grey clayey top	osoil.			
							=	MADE GROUND: C	Orange brown mottled grey	y clay.			
0.60	0.60												
0.60		HV D		90kPa	Ē 👊	0.90		MADE GROUND: Soft to firm light brown mottled black clay with organic					
1.00	1.00							1— MADE GROUND: Soft to firm light brown mottled black clay with organic silt (reworked)					
1.00	1.00												
								Very soft light grey	silty CLAY			<u>×</u>	
1.80												×_×_×	
					- 30	(1.20)	2-					<u>×</u> -×	
					-		-					× × ×	
2.70		D				2.70	-					<u>* * * * * * * * * * * * * * * * * * * </u>	
					- 89		3-		End of Trial Pit at	2.70 m			
					-		-						
							=						
					-		-						
					- 88		4 -						
					F		-						
							_						
					-		-						
					_ 87		5-						
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							-						
					- 86		6						
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					85		7						
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					83 		9-						
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					<u> </u>	=				VEV			
	GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit rem arisings.							ble. No groundwater enco	untered. Trial pit backfilled with	G - Disturbed sample (glass ES - Disturbed sample (tub a	tic tub) M - In S jar) P - In S	itu Hand Vane Test itu Mexecone CBR Test itu CBR Plate Test to Ionisation Detector	
	ansings.  So Disturbed sample (glass) and part of the property												

SIT	E				CL	IENT						
		Woo	dford Phas	se 1 SI		Avro Herit	age Ltd	BAES	YSTEMS			
PROJ	ECT N	UMBER			GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
	A1065	5-00		- 389870.51 - 382460.55		87.277	3.85	Sheet 1 of 1	TP22			
PLAN	Т		DIMENSI	ONS	DAT	E	LOGGED BY	CHECKED BY	SCALE			
				-		17/01/2012			1:50			
			TESTS	STRATA								
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULT	S LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION			LEGEND WATER			
0.15		D		(0.30)	=	Soft dark brown cla	yey TOPSOIL.					
0.55		D		0.30	-	Soft dark brown silt	y sandy subsoil.					
				- 0.80 - 86	1 —	Orange brown medium SAND.						
1.10		D		(0.70)								
				1.50	=	Fine orange silty SA	AND.		×× ×			
1.90		D		F	=	,						
				= 85 <sub>(1.10)</sub>	2-		*					
				2.60	=							
				2.00	=	Soft grey brown sar	ndy SILT/CLAY.		<u> </u>			
3.00		D		=-84 - (1.35)	3-				7×7×7 ××××			
				(1.25)	=				(xxxxx xxxxx (xxxx			
				3.85	=				<u> </u>			
				- 83	4		End of Trial Pit	at 3.85 m				
				-	=							
				-	=							
				- 82	5-							
				F	=							
				-	=							
				- - 81	-							
				-	6-							
				-	=							
				-	=							
				<del>-</del> 80	7-							
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				<del>-</del> 79	8-							
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				-	-							
				- 78	9-							
				<u>-</u>	-							
-												
GROU DEPT	JNDWA H (m)		HAVIOUR	REMARKS  Trial pit remair arisings.		ble. No groundwater enco	untered. Trial pit backfilled v	KEY  B - Bulk disturbed sample  Vith  D - Disturbed samples (pla  G - Disturbed sample (glas				
					ral accor	dance with BS 5930 (as amended) & i	BS EN ISO 14688 BAE	ES - Disturbed sample (tub W - Water sample	and jar) PID - Photo Ionisation Detector			

SIT	Έ				CL	.IENT						
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEN	IS		
PROJ	ECT N	JMBER	CO-ORDINA	TES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
	A106	5-00		91036.60		88.903	3.40	Sheet 1 of 1	TP2	4		
				82780.20								
PLAN	Т		DIMENSION	S	DAT	E 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:5	in		
				-		10/01/2012			1.0			
			TESTS	STRATA								
TOP (mbgl)	(mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION			LEC	GEND WATER		
0.10		D		(0.25)	-	Topsoil						
0.50		D		0.25	=	Firm grey with some	e orange mottling CLAY					
0.50				_ (0.65) -	-							
1.00		D		0.90	1-	firm grey with some orange mottling CLAY with pockets of fine grey						
				(0.75)	-	slightly clayey sand		p				
				-	_							
1.75		D		(0.35)	=	Grey slightly clayey gravelly coarse SAND. Gravel is corase rounded of						
				87 2.00	2	mixed lithology			××	×××		
2.20		D		_	-	Soft orange brown s	sandy SILT with lenses of	silty coarse sand.	× × × × ×	x x x x x x x x x		
				= = =	=				×× ××	× × × × × × × × ×		
				(1.40)	-				× × × × × × × × × × × × × × × × × × ×	× × × × × × × × ×		
				<del>-</del> 86	3-				×× ××	× × × × × ×		
3.40		D		3.40								
				- - -	=		End of Trial Pit at	3.40 m				
				- 85	4 —							
				- 03	4-							
				- - -	=							
				_	-							
				[ 84	5							
				- - -	-							
				_	=							
				<u>-</u>	-							
				83	6							
				_	=							
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								1				
GROU DEPT	JNDWA 'H (m)		HAVIOUR	REMARKS		blo. No groundwater ex-	untored. Tried hit best-filled	B - Bulk disturbed sample	HV - In Situ Hand tub) M - In Situ Mexe			
2 LI- I	(۱۱۱)	DE	I PAVIOUR	arisings.	eu sta	ואס groundwater encot	untered. Trial pit backfilled wit	G - Disturbed sample (glass ja ES - Disturbed sample (tub and	r) P - In Situ CBR	Plate Test		
								W - Water sample				
l				I Material logged in gene	al accord	dance with BS 5930 (as amended) & F	RS EN ISO 14688 DAE TO	1 1				

SIT	Woodford Phase 1 SI					IENT Avro Herit	age Ltd	BAES	YSTEMS	
DDO	ECT NI	IMPED	CO-ORDINA	TEC	CDC	OUND ELEVATION (mAOD)	HOLE DEDTH (m)	-	TRIAL PIT	
				91119.37	GRC	89.499	3.50	Sheet 1 of 1	TP25	
	A106	5-00		32711.00		09.499	0.00			
PLAN	Т		DIMENSIONS	3	DAT	E 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50	
				T						
			TESTS TEST RESULTS	STRATA  LEVEL (THICKNESS)	DEPTH	DECODIDATION			LEGEND WA	TED
(	(mbgi)		TEST RESULTS	LEVEL BASE (THICKNESS) mbgl (m)	(mbgl)	DESCRIPTION			Auren	TER
0.10	0.10	D		(0.30)	-	subrounded gravel	ndy CLAY with occasional and cobbles of mixed litho	fine to coarse subangula logy.	r to	
0.50		D		(0.30)	-	Firm to stiff light bro brown sandy clay.	own sandy CLAY with abui	ndant pockets of orange		
0.90		D		- 88	1-	Soft to stiff brown C	LAY with abundant pocke and sandy from 1.3m.	ts of orange brown and g	rey	
				(1.30)	=	,				
					=				To be a second of the second o	
2.00		D		- - -87	2-	Soft to firm grov Cl	AY with abundant pockets	of orange brown alov		
2.00				(0.50)	<b>2</b> -	Solt to lifti grey CL	AT WITH ABUNDANT POCKETS	of orange brown clay.		
2.70		D		2.40	-	Medium reddish bro subrounded gravel	own SAND with some fine and cobbles of mixed litho	to coarse subangular to logy.		
20				- -86 <sup>(1.10)</sup>	3-					
					- -					
				3.50	-	 	End of Trial Pit at 3	3.50 m		
				- 85	4-					
					-					
				-	=					
				<del>-</del> 84 -	5-					
				-	=					
				-	-					
				83	6-					
				-	=					
					-					
				- 82	7-					
					-					
				_	-					
				- 81	8-					
				-	-					
				_	-					
				E	-					
				80 	9-					
				Ė	-					
				Ė	-					
				<del> </del>	=					
	GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit remain arisings.					ble. No groundwater enco	untered. Trial pit backfilled with	KEY  B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass ja ES - Disturbed sample (tub and W - Water sample	ar) P - In Situ CBR Plate Test	- 1
				Material logged in gener	ral accor	dance with BS 5930 (as amended) & E	BS EN ISO 14688 BAF TP I	og v1 3		

N - 302003.43	TP26  1:50  LEGEND WATER
PLAN	1:50
PLANT	1:50
SAND   STRATA   Type   Test results   STRATA   Type   Test results   Strata   Stra	
STRATA   S	
Type   Test Results   Tes	LEGEND WATER
0.10 D	LEGEND WATER
0.60 D Coarse orange gravelly SAND. Gravel is very fine to coarse rounded to subrounded of mixed lithology.	
Coarse orange gravelly SAND. Gravel is very fine to coarse rounded to subrounded of mixed lithology.  1.40  D  -86  2.30  End of Trial Pit at 2.30 m  -85  -84  4  -83  5  -83  5  -83  5  -83	
1.40 D D C C C C C C C C C C C C C C C C C	
2.30 D End of Trial Pit at 2.30 m	
2.30 D End of Trial Pit at 2.30 m	
2.30 End of Trial Pit at 2.30 m	
2.30 End of Trial Pit at 2.30 m	
End of Trial Pit at 2.30 m	
-85 3- -84 4- -83 5- -83 5-	74.002100
-84 4- 83 5- 	
-83 5— 	
-83 5— 	
-83 5— 	
F-80 8- - -	
-79 9-	
DEPTH (m) BEHAVIOUR Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings.  D - Disturbed samples (plastic tub) M - In S G - Disturbed sample (glass jar) P - In S	Situ Hand Vane Test Situ Mexecone CBR Test Situ CBR Plate Test oto Ionisation Detector

SITE	1.51 4.61	CLIEN		111	PAFS	VETEME		
VVoodf	ord Phase 1 SI		Avro Herit	age Ltd	BAES	BAE SYSTEMS		
PROJECT NUMBER	CO-ORDINATES	GROUND	ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT		
A1065-00	E - 390940.73 N - 382626.02		88.727	3.20	Sheet 1 of 1	TP27		
PLANT	DIMENSIONS -	DATE	16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50		
SAMPLES & TE					1			
TOP BASE TYPE TE	ST RESULTS LEVEL (MAOD) (THIC	SE (NESS) DEPTH (mbgl) DE	SCRIPTION			LEGEND WATER		
0.10 D D 0.40 D	(0.20	0.20 } b	MADE GROUND: Reprosert in the same sand and fine obbles of mixed litter.	e to coarse subangular	elay with occasional pockets to subrounded gravel and	of orange		
0.70 D D B	(0.60	-	ledium light brown ellow/brown sand. nixed lithology.	very clayey gravelly S Gravel is fine to coars	AND with occasional pocke e subangular to subrounded	ets of dof		
1.30 D	<b>- 88</b> 	1.10 + F		wn / grey CLAY with a	bundant pockets of orange	I		
	- (0.80 - -	1 90 - N	Medium grey clayey bundant fine to co- nixed lithology from	arse subangular to sub	pockets of orange brown sa prounded gravel and cobble	and. s of		
2.10 D	- 87 (1.30	2 N	ledium light brown	/ grey SAND with som	ne fine to coarse subangular ithology. Slight organic odor	r to ur.		
3.20 D	- - - - - - - - - - - - - - - - - - -	4		End of Trial Pi	t at 3.20 m			
	83 	7-						
		9-						
GROUNDWATER DEPTH (m) BEHA	VIOUR Trial pit I arisings.		No groundwater encou	untered. Trial pit backfilled	KEY  B. Bulk disturbed sample D. Disturbed samples (plas G. Disturbed sample (glass ES. Disturbed sample (tub a W. Water sample	jar) P - In Situ CBR Plate Test		

SIT	SITE Woodford Phase 1 SI				CLIENT		444	VOTE II O
		Woo	dford Phase	1 SI	Avro Herit	age Ltd	BAES	YSTEMS
PROJ	ECT N	JMBER			GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A106	5-00		90707.05 32626.55	87.176	1.00	Sheet 1 of 1	TP28
PLAN	Т		DIMENSION	3	DATE	LOGGED BY	CHECKED BY	SCALE
				-	16/01/2012			1:50
			TESTS	STRATA	DEDTU			
(mbgl)	(mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	1			LEGEND WATER
0.35		D		(0.15) 0.15	Brown TOPSOIL SOUTHERN EDGE	OF TRIAL PIT: 0.15m to	0.3m medium orange san	d: 0.3m to
0.65		D		- - (0.85)	0.9m black ashy sa duct at 0.9m to 1m.	ndy gravel of clinker and n NORTHERN SIDE: mediu	nixed lithology. ceramic um orange brown SAND f	rom 0.15m
				- 86 1.00	_ to 1m			
				-	· =	End of Trial Pit at 1	1.00 m	
				E				
				- - 85	2-			
				- 65	2			
				- - -	=			
				-				
				<del>-</del> 84	3-			
				-	]			
				-  -  -	_			
				<u>-</u> -83 -	4-			
				<u> </u>				
				_ _	=			
				<del>-</del> 82	5-			
				-				
				-	-			
				81	6 -			
				- - -	]			
				<u>-</u> -	_			
				<del>-</del> 80	7-			
					=			
				<u>-</u>	]			
				- 79	8 =			
				Ē	-			
				<u> </u>	=			
				_ 78	9-			
				_	=			
				-	=			
					=			
GROU DEPT	JNDWA H (m)		HAVIOUR	arisings.	ed stable. No groundwater enco		KEY  B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass ja ES - Disturbed sample (tub and W - Water sample	r) P - In Situ CBR Plate Test
				Material logged in gene	ral accordance with BS 5930 (as amended) &	BS EN ISO 14688 BAE TP L	.og v1.3	

SIT	SITE Woodford Phase 1 SI					CL	IENT Avro Horit	RAFS	YSTEN	16	
		vvoo	atora Phase	9 1 51			Avro Herit	age Ltd	DAL 3	Ten-	
PROJ	ECT N	JMBER		NATES 390698.	25	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	A106	5-00		382636.			87.407	2.00	Sheet 1 of 1	TP2	8A
PLAN	Т		DIMENSIC	NS		DAT	E 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:5	50
				-			16/01/2012			1.3	
			TESTS TEST RESULTS		BASE (THICKNESS) mbgl (m)	DEPTH	DESCRIPTION			l Fi	GEND WATER
	(mbgl)		TEOTREOGET	(mAOD)		(mbgl)	Brown clayey TOPS	SOII		EL.	SEND WATER
0.15		D D		-	0.30)	=	Orange medium SA				
				-	(0.50)	=					
1.00		D		-86	0.80	1-	Orange medium SA				
				Ē	(1.20)	-					
				-	(1.20)	=					
				- 85	2.00	2					
				F		-		End of Trial Pit at	2.00 m		
				E		-					
				- 84		3-					
				-		-					
				F		-					
				-83		4-					
				-		· -					
				Ė		-					
				- 82		5-					
				- 02		- - -					
				-		-					
				- - 81		-					
				-01		6-					
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				ļ.,		_ =					
				80 		7-					
				E		-					
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				79 - -		8-					
				Ė		=					
						=					
				78 		9-					
				-		=					
						=					
052	INIE	TES.		-	NAA 5: : =				KEY		
	GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit remain arisings.						ble. No groundwater enco	untered. Trial pit backfilled wit	B - Bulk disturbed sample	jar) P - In Situ CBR	econe CBR Test Plate Test
				Materia	al logged in gene	ral accor	dance with BS 5930 (as amended) & I	BS EN ISO 14688 BAE TP	Log v1.3		

SIT	SITE Woodford Phase 1 SI					CLIENT Avro Herita	age Ltd	BAES	STEMS			
DDO	ECT NI	IMPED	CO-ORDINA	TEO		GROUND ELEVATION (mAOD)	HOLE DEDTIL (**)		TRIAL PIT			
				90613.18		86.782	2.80	Sheet 1 of 1	TP29			
	A1065	5-00	N - 38	32505.34								
PLAN <sup>1</sup>	Т		DIMENSIONS	-		DATE 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50			
0 4 4	4DI E	0 0 7		OTDAT	•							
TOP	BASE		TESTS TEST RESULTS	STRAT		DEPTH (mbgl) DESCRIPTION			LEGEND WATER			
(mbgl) 0.10	(mbgl)	D		L	(m) (r		eddish brown sandy clay v	with rare fine to coarse	223213			
0.10				(0.30)	0.30	subangular to subrou	7. × × × ×					
0.50		D		(0.40)	0.70	Soft to firm reddish be brown sandy clay and and cobbles of mixed	prown sandy CLAY with so d some fine to coarse sub d lithology.	ome pockets of stiff light pangular to subrounded g	ravel			
1.00		D		<del>-</del> 86		Medium light brown / red SAND with occasional fine to coarse subangular to subrounded gravel and cobbles of mixed lithology.						
				-		- - -						
		_		(2.10)		-						
2.00		D		<del>-</del> 85 -		2—						
				[		=						
				- 2	2.80	}	End of Trial Dit of 2					
				<del>-</del> 84		3-	End of Trial Pit at 2	.00 111				
				-		=						
				-  -  -		=						
				- 83		4 -						
				-								
				-  -  -								
				- 82		5-						
				-								
				-  -  -		-						
				-		- - 						
				<u>-</u> -81 -		6—						
				<u>-</u>								
				-		=						
				<del>-</del> 80		7_						
				  -  -		]						
				-		]						
				- 79		8-						
				<u>-</u> -		=						
				-  -  -		1						
				- - 78		9-						
				F								
				<u>-</u> - -		=						
				F		3						
GROI	INDWA	TFR		DEMAR	K C	4		KEY				
	GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit remain arisings.					ed stable. No groundwater encou	ntered. Trial pit backfilled with	B - Bulk disturbed sample	) P - In Situ CBR Plate Test			
				Material logged i	n general	al accordance with BS 5930 (as amended) & BS	S EN ISO 14688 BAF TP I	on v1 3				

SIT	SITE					JENT							
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS				
PROJ	ECT N	JMBER			GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT				
	A1065	5-00		90487.10 82536.33		86.351	3.40	Sheet 1 of 1	TP30				
PLAN	T		DIMENSION	S	DAT	E	LOGGED BY	CHECKED BY	SCALE				
				-		16/01/2012			1:50				
SAN	1PLE	S & 1	TESTS	STRATA									
TOP (mbgl)			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND WATER				
0.20		D		- - (0.50)	-	Brown clayey TOPS	SOIL.						
				0.50	-	Firm grev brown mo	ottled orange CLAY.						
0.75		D		(0.60)	-		ŭ						
				E-85 1.10	1-	Soft orange brown i	mottled grey SILT/CLAY		<u> </u>				
1.30		D		(0.70)	-	3	<b>3</b> • <b>,</b> • •						
				1.80	-	Soft grey brown silty SAND.							
2.10		D		84	2	Soft grey brown silt	y SAND.		* * * *				
				- (0.70) -	-								
2.50		D		(0.05) 2.50 2.55		Black brown fibrous	PEAT.		# # # #				
				83 (0.85)	3-	Grey medium to coa subrounded to suba	arse grained gravelly SA angular of mixed lithology	ND. Gravel is fine to coars /.	e				
3.30		D		3.40	-	! 							
					-		End of Trial Pit a	t 3.40 m	- SN 52				
				- 82	4-								
				-	7								
				- - -	-								
				- - -	-								
				<del>-</del> 81	5 -								
				<del>-</del> -	-								
				- - -	-								
				- 80	6-								
				-  -  -	-								
				- - -	-								
				- 70									
				<del>-</del> 79	7 -								
				- - -	=								
				- - -	=								
				<del>-</del> 78	8-								
				- -	=								
				- - -	=								
				- <b>77</b>	9-								
				-  -  -	-								
GR∩I	INDWA	TER		DEMVDK6				KEY					
	GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit remain arisings.					ible. No groundwater enco	untered. Trial pit backfilled w	B - Bulk disturbed sample	ar) P - In Situ CBR Plate Test				
				Material logged in general	ral accor	dance with BS 5930 (as amended) & E	BS EN ISO 14688 BAE T	P Log v1.3					

SIT		Woo	dford Phase	1 SI	CLIENT Avro Herit	age Ltd	BAES	YSTEMS
PRO.I	ECT NU	JMRFR	CO-ORDINA	TES	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A1065		E - 39	90351.31	85.488	3.10	Sheet 1 of 1	TP31
PLAN				32385.66		LOGOTO DV	OUEOKED DV	SCALE
PLAN	1		DIMENSIONS	-	DATE 16/01/2012	LOGGED BY	CHECKED BY	1:50
SAN	1PLF	S & T	ESTS	STRATA				
TOP (mbgl)			TEST RESULTS	LEVEL BASE	DEPTH (mbgl) DESCRIPTION			LEGEND WATER
0.10 0.30		D D		(0.20) 0.20 (0.30) 0.50	-\_ lithology including ra	Brown sandy clay with poc arse subangular to subrou are brick. orange brown sandy CLA	unded gravel of mixed	dy clay
0.70		D		F	Firm grey sandy CL	AY with abundant pockets		clay.
1.10		D		84 (1.00)	1 Increasing sand cor	ntent from 1.0m.	,	
1.70		D		1.50	Medium orange bro	wn SAND.		
				2.20	- Medium grey grave	lly slightly clayey SAND. Counded of mudstone.	Gravel is fine to coarse	
2.70		D		-	-			
3.10		D		82 (0.20) 3.10	Fine to coarse subr	ounded to rounded sandy		mixed
				-		End of Trial Pit at	3.10 m	
				- 81 	4-			
				- - -	-			
				- 80	5-			
				- 79 	6-			
				- - 78	7-			
				- - -	-			
				- - - 77	8-			
				- - 76	9-			
				- - - -				
				- - -				
GROUNDWATER DEPTH (m) BEHAVIOUR Trial pit remain arisings.					ed stable. No groundwater encou		KEY  B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass ja ES - Disturbed sample (tub and W - Water sample	r) P - In Situ CBR Plate Test

SIT	Woodford Phase 1 SI				CL	IENT Avro Herit	age Ltd	BAES	YSTEM	S
PROJ	ECT N			TES 90221.51	GRC	UND ELEVATION (mAOD)		Sheet 1 of 1	TRIAL PIT	0
	A1065	5-00		32417.12		85.364	2.80		TP3	2
PLAN	Т		DIMENSIONS	3	DAT	E 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50	
671	ADI E	C Q T	ESTS	STRATA						
			TEST RESULTS	-	DEPTH (mbgl)	DESCRIPTION			LEGE	END WATER
0.15		D		- (0.30)	_	MADE GROUND: B	Brown clayey topsoil.		<b>X</b>	
0.45		D		0.30 (0.30) 0.60	-	MADE GROUND: S siltstone.	Slightly red sandy angula	r cobbles of sandstone, bri	ick and	
1.00		D		- - - - 84	1-	Soft to firm grey bro clayey sand. Petrific	own mottled orange CLA\ ed wood at 0.8m. Becom	Y with pockets of grey fine es denser with depth at 1.	6m.	
				(1.70)	-					
					-				7. <u></u>	
2.00		D		83	2				To the second of	
				2.30	-	Grey medium SANI	).			
2.60		D		- (0.50) - 2.80	-					
				82	3-		End of Trial Pit a	t 2.80 m	-	. 550
				-	-					
				<u> </u>	-					
				_ 81	4-					
				- - -	-					
				-  -  -	-					
				- 80	5-					
				- -	- -					
					-					
				- 70	-					
				<u>-</u> 79 - -	6-					
				<u>-</u>	-					
				-	=					
				<u>-</u> 78 -	7-					
				_	-					
				-	-					
				<del>-</del> 77	8-					
				-  -  -	-					
				-	-					
				<del>-</del> 76	9-					
				_	-					
				-	-					
				-	-					
	REMARKS DEPTH (m) BEHAVIOUR Trial pit remai arisings.					ble. No groundwater encou	untered. Trial pit backfilled wi	KEY  B. Bulk disturbed sample D. Disturbed samples (plast) G. Disturbed sample (glass) ES. Disturbed sample (tub an W. Water sample	ar) P - In Situ CBR P	one CBR Test late Test
				Material logged in gene	al accor	dance with BS 5930 (as amended) & E	BS EN ISO 14688 BAE TI	Log v1.3		

SIT	Woodford Phase 1 SI				CL	IENT Avro Herit	age Ltd	BAES	YSTEMS		
PROJ	IECT N	JMBER	CO-ORDIN	ATES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT		
	A106	5_00	E-	390141.01		84.872	2.80	Sheet 1 of 1	TP33		
		J-00		382297.75							
PLAN	Т		DIMENSIC	NS	DAT	E 16/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50		
				-		10/01/2012			1.50		
			ESTS	STRATA							
TOP (mbgl)	(mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION			LEGEND WATE		
0.10		D		(0.30)	-	MADE GROUND :	Brown sandy clay with oc el of mixed lithology	casional fine to coarse sul	bangular		
0.30		D		(0.40)	=			orange brown clay and s	ome		
0.60		D		0.70	=	fine to coarse subar	ngular to subrounded grav	vel of mixed lithology.  If and laminated from 0.6r			
0.90	0.90 D = 84 (0.60)						•	s of orange brown sandy			
	1.3					and rare fine to coarse subangular to subrounded gravel and cobbles of mudstone.					
1.60		D			=	Grey/brown medium	n SAND				
				- - -	-	<b>,</b>					
				83 <sub>(1.50)</sub>	2-						
				-	=						
				-	=						
				2.80 82	3-		End of Trial Pit at	2.80 m			
				- 02	-						
				-	=						
					=						
				- 81	4						
				-	-						
				E	=						
				- - -	-						
				<del>-</del> 80	5-						
				-	=						
				_ _	=						
				- 79	6-						
				- 73	-						
				- -	=						
				F	=						
				- 78	7-						
				E	=						
				F	=						
				F	=						
				<del>-</del> 77	8-						
				Ė	=						
				E	=						
				- 76	9-						
				<u> </u>	-						
				Ė	=						
				F	=						
				Ė	=						
l	JNDWA			REMARKS	3			KEY  B - Bulk disturbed sample	HV - In Situ Hand Vane Test		
DEPT					ained stable. No groundwater encountered. Trial pit backfilled with    B - Bulk disturbed sample   HV - In Situ Hand Vane Test						
				Material logged in gen	Il logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688 BAF TP Log v1.3						

SITE				CLIENT								
	Woo	dford Phase	1 SI		Avro Herit	age Ltd		BAES	YST	EMS		
PROJEC	T NUMBER	CO-ORDINA	TES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)			TRIAL PIT	-		
A1	1065-00		89966.07 82316.87		85.427	3.00		Sheet 1 of 1		TP34		
PLANT		DIMENSION	S -	DATI	E 17/01/2012	LOGGED BY	CHEC	CKED BY	SCALE	1:50		
SAMPI	LES & 1	TESTS	STRATA	1		L	ļ					
TOP BA		TEST RESULTS		DEPTH (mbgl)	DESCRIPTION					LEGEND WATER		
0.10	D				MADE GROUND: F	Brown clayey topsoil.						
0.35	D		(0.20) 0.20 (0.35)	=	,	Orange brown slightly s	sandv gra	velly clavey subsoi	I. Gravel			
0.65	D		0.55	3	is coarse subround	ed of mixed lithology.						
0.03			0.75		MADE GROUND: E	Black slightly clayey gra le to coarse subrounde	avelly san	d with ash and occ	casional			
1.00	D		84 (0.45)	1-		Black brown organic sil			nents			
1.35	D		1.20	]	of brick.			occacional nagi		X - X		
			(0.65)		Soft greenish-grey fine grey clayey silt	with some orange moti v sand.	tling sand	y CLAY with lense	s of	xx-		
			1.85	2	Pinkish grey mediu					×		
2.20	D		(0.90)	_ =								
			(0.90)	=								
			2.75		0.66					××××		
3.00	D		82 3.00	3	Soft brown SILT					- CXXXX		
				]		End of Trial Pi	'it at 3.00 m					
			-	=								
				=								
			<del>-</del> 81	4								
				=								
			-	=								
			Ē	=								
			-80	5								
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			<del>-</del> 79	6-								
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			<del>-</del> 78 -	7-								
			E	]								
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			<del>-</del> 77	8-								
			F	=								
			E	=								
			- 76	9-								
			F	-								
			E	=								
			F	=								
			Ė	=								
GROUND	) DWATER		REMARKS					KEY				
	DEPTH (m) BEHAVIOUR Trial դ				Trial pit remained stable. No groundwater encountered. Trial pit backfilled with arisings.    B. Bulk disturbed sample   HV - In Situ Hand Vane Test							
			Material logged in gener	ral accord	dance with BS 5930 (as amended) &	BS EN ISO 14688 BA	AE TP Log v1.3					

SIT	SITE Woodford Phase 1 SI					IENT Avro Herit	age Ltd	BAES	YSTEM	S		
PR∩I	ECT NI	IMRER	CO-ORDINA	TES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
				39850.72	Orto	85.361	3.50	Sheet 1 of 1	TP35	.		
	A1065	5-00	N - 38	32158.10		65.501	0.00			,		
PLAN	Т		DIMENSIONS	5	DATI	E 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50			
				-		1770172012			1.50			
			ESTS	STRATA								
(mbgl)	(mbgl)	TYPE	TEST RESULTS	(mAOD) (microsco) mbgl (m)	DEPTH (mbgl)	DESCRIPTION			LEGE	ND WATER		
0.10		D		(0.20)	-	MADE GROUND: D	oark brown sandy clay with el and cobbles of mixed lit	n some fine to coarse sub	oangular d			
0.40		D		(0.60)	=	clinker.						
0.60		D		0.80	=	orange brown and o	ight brown friable sandy c grey sandy clay. Some fine	e to coarse subangular to	s of			
1.00		D		84	1-	subrounded gravel	and cobbles of mixed litho	logy including clay pipe	/			
				(0.70)	=	Soft brown slightly s grey clay.	sandy CLAY with some po	ckets of dark brown peat	and	Ī		
				1.50	=		fibrous clayey PEAT with	some plant remains	ينادر مادر در بعادر	sales .		
1.80		D		- -83 <sup>(0.80)</sup>	2-				رمادر رمادر در بمادر رمادر رمادر	ile.		
				-	-				ander sides er sides	ale, ale,		
				2.30	=	Soft grey/brown ver orange brown sand	y sandy CLAY with abund	ant pockets of pale grey	and			
2.60		D		-	=	orange brown sand	y ciay.			Ē		
				82 <sup>(1.20)</sup>	3							
				-	=							
				3.50	=							
				- 04	_ ]							
				E-81	4-							
				-	=							
				Ē								
				80	5							
				-	=							
				<u> </u>	_							
				<u>-</u> 79 -	6-							
				E								
				E	=							
				- -78	7-							
				Ė	=							
				_	=							
				<u> </u>	_ =							
				<del>- 77</del> -	8-							
				E								
				-	=							
				- -76	9-							
				Ė	=							
				E	=							
				E	=							
CDO!	INIDVATA	TED			=			KEY				
	GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit remain arisings.					ble. No groundwater encou	untered. Trial pit backfilled with	B - Bulk disturbed sample	ar) P - In Situ CBR Pla	ne CBR Test ite Test		
				Material logged in gene	ral accord	dance with BS 5930 (as amended) & E	3S EN ISO 14688 RAF TP I	og v1 3				

SITE					CLIENT				
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS
PROJ	ECT N	JMBER			GROU	JND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A1065	5-00		89511.88 82366.10		87.454	1.60	Sheet 1 of 1	TP36
PLAN	T		DIMENSION		DATE		LOGGED BY	CHECKED BY	SCALE
				-		24/01/2012	2000255.		1:50
SAN	IDI E	S & 7	ESTS	STRATA					
			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND WATER
(**************************************	(mbgi)			(0.20) 0.20			Grey topsoil with concrete	gravel.	
0.40		D		0.20	+		ey fine to medium SAND.	g	ingine in the second
				(0.70)	=	Light grey clayey fin	ne SAND		
0.80		D		0.90	1-				
				(1.00)	<u>,</u>				man production of the second
1.60		D		1.60	1				And the second s
1.00		D		- 1.00	=		End of Trial Pit at	1.60 m	0.000 (0.000)
				85	2-				
					=				
					=				
				- 84	3				
				-	=				
				_	=				
				-	1				
				<del>-</del> 83	4-				
				-	=				
					=				
				82	5				
					=				
				-	=				
				- 81	6				
				-					
					=				
				_	1				
				-80	7-				
				_	=				
				_	=				
				_ 79	8-				
				E	=				
				-	=				
				-	=				
				<del>-</del> 78	9-				
					=				
				-	=				
					=				
GROUNDWATER REMARKS								KEY B - Bulk disturbed sample	HV - In Situ Hand Vane Test
DEPTH (m) BEHAVIOUR Heavy water ir land drain). Tri					gress a al pit re	it 1.1m hole terminated, sa mained stable. Trial pit ba	andstone cobbles (suspected ackfilled with arisings.	D - Disturbed samples (plastic G - Disturbed sample (glass ja ES - Disturbed sample (tub and	c tub) M - In Situ Mexecone CBR Test ar) P - In Situ CBR Plate Test
								W - Water sample	
				Material logged in gene	ral accorda	ance with BS 5930 (as amended) & E	BAE TP	Log v1.3	

SITE					CLIENT								
		Woo	dford Phase	1 SI	Avro Herit	age Ltd	BAES	YSTEMS					
PROJ	ECT N	JMBER			GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT					
	A1065	5-00		39619.12 32371.16	89.089	2.50	Sheet 1 of 1	TP37					
PLAN	T		DIMENSIONS		DATE	LOGGED BY	CHECKED BY	SCALE					
				-	27/01/2012			1:50					
SAN	1PI F	S & 1	TESTS	STRATA									
TOP (mbgl)			TEST RESULTS	LEVEL (MAOD) (THICKNESS) mbgl (m)	DESCRIPTION			LEGEND WATER					
0.10		D		(0.20)		Dark brown sandy topsoil v	vith some ash.	****					
				0.20	Light orange brown	fine to medium SAND .							
0.60		D		-	1								
				- 88	1								
1.30		D		(2.30)	-								
				(2.30)	1								
				Ē 	_ =								
				<del>-</del> 87	2-								
2.50		D		2.50	1			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
				-	1	End of Trial Pit at:	2.50 m						
				86	3-	<u>-</u> -							
				-	1								
				Ē	1								
				_ 85	4-								
				-	1								
				<u>-</u>	1								
				-	1								
				<del>-</del> 84	5—								
				Ē									
				Ē	1								
				-83	6-								
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				- 82	7—								
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				<del>-</del> 81	8-								
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				-80	9-								
				Ė	=								
				-	-								
				-	- - -								
GROU	JNDWA	TER	<u> </u>	REMARKS	- 1		KEY	LIV In Charles av 7					
DEPT	H (m)	BE	HAVIOUR		and collapsing from surface. Tri-	al pit backfilled with arisings.	B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass ji ES - Disturbed sample (tub and W - Water sample	ar) P - In Situ CBR Plate Test					
				Material logged in generation	ral accordance with BS 5930 (as amended) &	BS EN ISO 14688 BAE TP I	Log v1.3						

SITE					CLIENT							
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS			
PROJ	IECT N	JMBER			GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
	A1065	5-00		89823.48 82372.79		86.062	2.80	Sheet 1 of 1	TP38			
PLAN	Т		DIMENSION	S	DATE	<u> </u>	LOGGED BY	CHECKED BY	SCALE			
				-		27/01/2012			1:50			
SAN	/IPLE	S & 1	ESTS	STRATA	1		<u> </u>	1				
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION			LEGEND WATER			
0.20		D		(0.50)	-	Soft grey clayey TC	PSOIL (Saturated)					
0.60		D		0.50	‡	Soft orange brown	mottled grey CLAY					
0.80		D		(0.50) - - 85 1.00	1							
1.10		D		(0.50)	1	Soft black sandy SI			The second of th			
1.00		D		(0.80)	‡	Soft light brown sar	ndy CLAY.					
1.60 1.85		D		(0.10) 1.80	1	Link kan a San ailt	CAND					
				84 1.90	2	Light brown fine silty SAND.  Soft light brown sandy CLAY with some.						
				(0.90)	=	Soft light brown sai	idy CLAT Will Some.					
2.50		D		F	=							
				2.80	3		End of Trial Pit at	2.80 m				
				-								
				-	=							
				-	=							
				82	4							
				E	=							
					=							
				<u> </u>	_ =							
				<del>-</del> 81	5-							
				E	=							
				Ė	=							
				80	6							
				E	=							
				-	=							
				-	=							
				<del>-</del> 79	7-							
				-	=							
				-	=							
				- 78	8-							
				-	=							
				-	=							
				-	=							
				<del>-</del> 77	9-							
				_	=							
					=							
GROUNDWATER REMARKS								KEY				
DEPT						sides unstable and collaps is.	sing from 1m. Trial pit	B - Bulk disturbed sample D - Disturbed samples (plasti G - Disturbed sample (glass) ES - Disturbed sample (tub an W - Water sample	jar) P - In Situ CBR Plate Test			
				Material logged in gener	ral accord	ance with BS 5930 (as amended) & I	BS EN ISO 14688 BAE TP	Log v1.3				

SIT	SITE Woodford Phase 1 SI					CLIENT  Avro Heritage Ltd			-	AFEV	CTE	MC	
		Woo	dford	d Phase <i>1</i>	1 SI			Avro Herit	age Ltd		AE SY	315	m S
PROJ	ECT N		}	CO-ORDINA <sup>-</sup> E - 38		80	GRC	OUND ELEVATION (mAOD)		Char	et 1 of 1	TRIAL PIT	200
	A1065	5-00		N - 38		.25		86.657	3.00				⊃39
PLAN	Т		[	DIMENSIONS	-		DAT	E 24/01/2012	LOGGED BY	CHECKED B	SY S	SCALE	1:50
SAN	1PLE	S & 1	ΓES	ΓS	ST	RATA							
TOP (mbgl)	BASE (mbgl)	TYPE	TEST	RESULTS	LEVEL (mAOD)		DEPTH (mbgl)	DESCRIPTION					LEGEND WATER
					-	(0.20)	-	,	Bituminous surfacing with				
0.50		D			-	(0.50)	-	MADE GROUND: E	Black subangular gravel o	or asn / clinke	r and concrete		
0.80 0.80 0.80		HV HV HV	2 - 12	10kPa 20kPa 10kPa	- 86	(0.30)	1-	Stiff light brown mot					
0.80 1.20		D HV	4 - 4	0kPa	-	(0.50)	-	Soft to firm light bro	wn CLAY.				
1.20 1.20		HV HV	5 - 4 6 - 4		-	1.50	=	Dark grey/brown fib	rous peat.				بالدر بنام، بعاد، ام بعاد، بناد، ، بناد، بناد، بعاد،
1.90	D = -85 = (1.30)						2						ے بعادر بعادر ہ بعادر بعادر بعادر معادر بعادر م بعادر بعادر بعادر
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	2.8						-	0.611.14	21.427				د بالاد بالاد ، بالاد بالاد بالاد د بالاد بالاد ،
3.00	3.00 D = 84 (0.20) 3.0					3.00	3-	Soft light grey silty (	JLAY. End of Trial Pit a	t 3.00 m			^ ×
					-		-						
							-						
					<u>-</u> 83 - -		4-						
					- - -		-						
					- - 82		5-						
							- -						
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					- 81		6-						
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					80		7-						
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					<u>-</u> 79		8						
					-		-						
					- 78		9-						
					ļ '		-						
					Ė		-						
					Ē		-						
	arisings.					al pit remain sings.	ed sta	ible. No groundwater encou	untered. Trial pit backfilled wi	th D - Dist G - Dist ES - Dist	disturbed sample urbed samples (plastic tuburbed sample (glass jar) urbed sample (tub and jar er sample	) M - In Situ	Hand Vane Test Mexecone CBR Test CBR Plate Test onisation Detector

SIT	SITE					CLIENT		20.00	NE 0 = 0 = .	
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTE	MS
PROJ	ECT N	UMBER			GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	A1065	5-00		89569.91 82285.17		87.884	2.70	Sheet 1 of 1	Т	P40
PLAN	T		DIMENSION		DAT	E	LOGGED BY	CHECKED BY	SCALE	
				-		27/01/2012				1:50
SAN	1PI F	S & 1	TESTS	STRATA						
			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION				LEGEND WATER
0.20	( .0)	D		(0.40)	-	MADE GROUND: [	Park brown sandy gravelly	topsoil.		
0.60		D		0.40	-	Firm to stiff light bro	own sandy CLAY.			
1.00		D		0.90	1-	Firm light brown sai	adv. CL AV			
1.00		ט		E-07	-	Firm light brown sai	ndy CLAY.			
				-						
				(1.80)	-					
2.10		D		86	2					
				-  -  -						
2.70		D		2.70		! 				
20				- 85	3-		End of Trial Pit at	2.70 m		
				- 00	-					
				-	-					
				-	-					
				<del>-</del> 84	4-					
				-	-					
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				-83	5-					
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				- 81	7-					
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				- - 80	8-					
				-	-					
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				_	-					
				<del>-</del> 79	9-					
				-						
				-	-					
-					-					
GROUNDWATER REMARKS						1		KEY	FW 1- 0	Hand Vans Tast
DEPT	H (m)	BE	HAVIOUR			ble. No groundwater enco	untered. Trial pit backfilled wit	B - Bulk disturbed sample D - Disturbed samples (plas G - Disturbed sample (glass ES - Disturbed sample (tub ar W - Water sample	tic tub) M - In Situ jar) P - In Situ	Hand Vane Test Mexecone CBR Test CBR Plate Test Ionisation Detector
				Material logged in gener	al accor	dance with BS 5930 (as amended) & E	BS EN ISO 14688 BAE TP	Log v1.3		

SITE					CLIENT							
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS			
PROJ	ECT N	JMBER			GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
	A1065	5-00		39744.96 82225.77		86.325	3.90	Sheet 1 of 1	TP41			
PLAN	Т		DIMENSION	S	DAT	E	LOGGED BY	CHECKED BY	SCALE			
				-		17/01/2012			1:50			
SAN			TESTS	STRATA				1				
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION			LEGEND WATER			
0.10		D		(0.20)	_	Soft brown slightly s	sandy clayey TOPSOIL					
0.45		D		(0.75)	-	Orange fine slightly	gravelly SAND					
				- (0.73)	=							
1.10		D		85 <sup>0.95</sup>	1	Firm orange brown	CLAY/SILT with pockets	of fine orange brown sand	i. ××××			
				(0.85)	-							
				1.80	=				× × × × × × × × × × × × × × × × × × ×			
				84	2	Soft to firm orange brown SILT						
2.20		D		(1.00)	=				×××× ×××× ××××			
				-	_				: × × × × × × × × × × × × × × × × × × ×			
				- 2.80 83	3	Soft grey brown SIL	.Т		×××× ××××			
3.20		D		(1.10)	_				( × × × × × × × × × × × × × × × × × × ×			
					=				× × × × × × × × × × × × × × × × × × ×			
				3.90	4-		End of Trial Pit at		<del></del>			
				- 02 - -			Life of Their it at	5.50 III				
				-	-							
				<u> </u>	_ =							
				=-81 - -	5 <u> </u>							
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GROUNDWATER REMARKS								KEY				
DEPT			HAVIOUR			ble. No groundwater enco	untered. Trial pit backfilled wit	B - Bulk disturbed samples (plasti D - Disturbed samples (plasti G - Disturbed sample (glass j ES - Disturbed sample (tub and W - Water sample	ar) P - In Situ CBR Plate Test			
				Material logged in general	ral accord	dance with BS 5930 (as amended) & E	BS EN ISO 14688 BAE TP	Log v1.3				

SITE	CL	LIENT		BAE SYSTEMS		
Woodford Phase 1	SI	Avro Herita	age Ltd	BAES	YSTEMS	
PROJECT NUMBER CO-ORDINATE		OUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
A1065-00 E - 3895 N - 382		85.942	2.80	Sheet 1 of 1	TP42	
PLANT DIMENSIONS	- DAT	E 18/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50	
SAMPLES & TESTS	STRATA	1		1	1	
TOP BASE TYPE TEST RESULTS (mbgl)	LEVEL (THICKNESS) DEPTH (mbgl)	DESCRIPTION			LEGEND WATE	
0.10 D 0.40 D 1.20 HV 1 - 54kPa	(0.20) (0.10) 0.20 (0.30) (0.3	MADE GROUND: Be and cobbles of mixe clinker.  MADE GROUND: Ge subrounded to subate the subangular gravel at the subangula	rey gravelly cobbly sand.  ngular mixed lithology including brick  ark grey slightly sandy fir  nd cobbles of blaes and o  rm dark brown friable san  rm grey reworked sandy  d light brown sand. Clay  n abundant pockets of ora  d to subangular gravel a  1.6m.  ith some pockets of pale	cluding some concrete.  The to coarse subrounded clinker.  The coarse subrounded clinker.  The coarse subrounded clinker.  The coarse subrounded clinker.  The coarse subrounded coarse subround	ar gravel  to  of pale at  lee fine	
SROUNDWATER F	-78 8	able. No groundwater encou	ntered. Trial pit backfilled wit	KEY  B - Bulk disturbed sample D - Disturbed sample (plast G - Disturbed sample (glass ES - Disturbed sample (tub ar W - Water sample	jar) P - In Situ CBR Plate Test	

SIT	SITE					IENT	265						
	Wo	odfo	rd Phase	1 SI		Avro Herit	age Ltd	BAE	SYST	EMS			
PROJ	ECT NUMBE	R	CO-ORDINA	TES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL P	IT			
	A1065-00			39673.90 32056.67		85.065	3.30	Sheet 1 of 1		TP43			
PLAN	Γ		DIMENSIONS	-	DATE	17/01/2012	LOGGED BY	CHECKED BY	SCALE	1:50			
	IPLES &	TES	STS	STRATA					'				
TOP (mbgl)	BASE TYP	E TES	T RESULTS	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION				LEGEND WATE			
0.10	D			(0.20) (0.10) 0.20 (0.30)		MADE GROUND: B to subrounded grave clinker.	frown sandy clay with el and cobbles of mixe	occasional fine to coarse and lithology including rare	subangular				
0.50	D			- (0.30) - 0.60 - (0.20)	<u></u>	/	ledium reddish brown	sand.		_//			
1.10	D			0.80	1-	MADE GROUND: F encountered at 0.4r	irm brown slightly organic	anic sandy clay. Land drai	in				
1.10				-  -  -	=	/	MADE GROUND: Medium reddish brown sand.						
				(1.40)	-	Firm grey CLAY wit of orange brown sa	Firm grey CLAY with some pockets of orange brown clay. Abundant pockets of orange brown sand between 1.5m and 1.8m						
2.10	D			-83 2.20	2								
2.50	D			-		Medium grey/brown cobbles of mixed lith	เ SAND with some sub าology	pangular to subrounded gr	avel and				
				(1.10)	=								
				82	3								
				3.30	=		End of Trial P						
				- - -	=		Life of Thair	it at 3.30 iii					
				- 81	4								
				- - - 01	4-								
				-	=								
				-	=								
				<del>-</del> 80	5								
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				F	=								
				<u> -</u>	=								
	ROUNDWATER REMARK  EPTH (m) BEHAVIOUR Trial pit remarisings.					ole. No groundwater encou	untered. Trial pit backfilled	G - Disturbed sample (gl ES - Disturbed sample (tu	olastic tub) M - lass jar) P -	In Situ Hand Vane Test In Situ Mexecone CBR Test In Situ CBR Plate Test Photo Ionisation Detector			
				W - Water sample  Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688  BAE TP Log v1.3									

SITE						CLIENT					
		Woo	dfor	d Phase	1 SI		Avro Herit	age Ltd	BAES	YSTE	MS
PROJ	ECT N	JMBER	2	CO-ORDINA	TES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	A106	5-00			39468.82 31979.76		85.883	3.60	Sheet 1 of 1	TF	P44
PLAN	Т			DIMENSIONS	3	DAT	E 18/01/2012	LOGGED BY	CHECKED BY	SCALE	1:50
					1						
	1PLE				STRATA						
TOP (mbgl)	BASE (mbgl)	TYPE	TES	results	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION			l	EGEND WATER
0.10		D			0.20)	- - -	MADE GROUND: B	frown sandy clay with soned lithology including brick	ne subangular to subroun and clinker.	ded gravel	
0.40		D			(0.40) - 0.60 - (0.30)	-	MADE GROUND: B to sub rounded grav	Black sandy clay with abur vel and cobbles of clinker	ndant fine to coarse sub a and some brick.	ıngular	
0.80		D			0.90	1-	\ angular to subround	ledium light brown slightly led gravel and cobbles of	clayey sand with some solinker and some pockets	sub s of	
1.20 1.20 1.20		HV HV HV	2 - 1	18kPa 14kPa 28kPa	<u>-</u>	-	reddish brown sand Soft to firm grey sar	ndy CLAY with abundant p	oockets of light brown sar	nd	
1.20 1.20 1.20	20 D D -						mixed lithology. Len	sandy clay and some sub- ises of medium light brow	angular to subrounded gr n sand between 1.7 and	avel of	
2.00		HV HV		30kPa 98kPa	84 <sup>(2.00)</sup>	2	2.0m.				
2.00 2.00		HV D	3 - 7	70kPa	_	-					
					-	-					
3.10		D			83	3	Medium grey brown	clayey SAND.			em e
					(0.70)	=					
	3.60					=		End of Trial Pit at	-		
		- 82			4						
					-	-					
					<u>-</u>	-					
					81	5-					
					- - -	-					
					<u>-</u>	-					
					- 80	6					
					-  -  -	=					
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					_ <del></del> 79	7-					
						=					
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-77						9-					
					<b>E</b> ''	- - -					
					-	-					
						=					
GR∩ı	INDW/A	TFR			DEMARKS	<u>-</u>			KEY		
	ROUNDWATER  BEPTH (m) BEHAVIOUR  Trial pit rema arisings.						ble. No groundwater encou	untered. Trial pit backfilled with	B - Bulk disturbed sample	c tub) M - In Situ M ar) P - In Situ C	land Vane Test dexecone CBR Test CBR Plate Test inisation Detector
					Material logged in gene	eral accor	dance with BS 5930 (as amended) & E	SS EN ISO 14688 BAE TP	Log v1.3		

SITE					CLIENT		***	No. of the last of	
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS
PROJ	ECT N	JMBER			GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A1065	5-00		39291.61 82033.68		86.032	3.40	Sheet 1 of 1	TP45
PLAN	T		DIMENSION		DAT	E	LOGGED BY	CHECKED BY	SCALE
				-		17/01/2012			1:50
SAN	1PI F	S & 1	ΓESTS	STRATA					
			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND WATER
0.20		D		(0.40)	-	Soft dark brown silty	y clay TOPSOIL.		
				0.40	-	Firm orange mottled	d grey CLAY with pocket	s of fine grey sand.	
0.65		D			-				
4.05		D		85 (1.60)	1-				
1.25		D		-					
				-	-				
2.10		D		84 (0.20) 2.00	2-	Soft grey SILT.			××××
2.10		D		= 84 (0.20) 2.20 - 2.20	-		coming orange brown SII	LT.	×××× ××××
				-		, ,			X X X X X X X X X X X X X X X X X X X
				(1.20)	3-				×××× ×××××
				- 03 - -	3- -				(xxxx xxxxx xxxxx
3.40		D		3.40			End of Trial Pit a	t 3.40 m	×××××
				_	-				
				<del>-</del> 82	4-				
				-	-				
				-	-				
				E = 81	5-				
				-	-				
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				- 80	6-				
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				-	-				
				<del>-</del> 79	7-				
				-					
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				- 78	8-				
				_	-				
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				- - - <b>77</b>	_				
				=- <b>77</b> - -	9-				
				Ė					
				Ė	-				
				-					
	arisings.					ble. No groundwater encou	untered. Trial pit backfilled w	KEY  B - Bulk disturbed sample jobs - Disturbed sample (plas G - Disturbed sample (glas ES - Disturbed sample (tub a W - Water sample	s jar) P - In Situ CBR Plate Test
				Material logged in gener	al accor	dance with BS 5930 (as amended) & E	BS EN ISO 14688 BAE T	P Log v1.3	

SIT	E				CLIENT			20 0 2 2				
	,	Wood	lford Phase	e 1 SI		Avro Herit	age Ltd	BAES	YST	EMS		
PROJ	ECT NU	JMBER	CO-ORDIN	ATES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PI	Γ		
	A1065	-00		389240.27 381874.20		86.151	3.50	Sheet 1 of 1		TP46		
PLAN	Т		DIMENSIO	NS -	DATI	E 17/01/2012	LOGGED BY	CHECKED BY	SCALE	1:50		
			ESTS	STRATA					ļ.			
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION				LEGEND WATER		
0.10		D D		0.20)	- - - -	MADE GROUND: Dithology including crounded mixed litho	linker. Gravel is fine to	relly clay with some cobbles o coarse sub angular to sub	s of mixed			
0.90		D		0.70 - (0.30) - 85 1.00	1-	MADE GROUND: L abundant pockets o	ight brown slightly fria f grey and orange bro	ble reworked sandy clay wi wn sandy clay and some si ed lithology including rare	ith ubangular			
1.50		D		1.20	-		Grey clay with abundar ered at 0.9m.	nt pockets of orange brown	sandy clay.			
				<u>-</u>	=	MADE GROUND: L	ight brown medium sa	and.				
				=-84 <sup>(1.50)</sup>  	2-	Soft to firm brown vand grey clayey sar	ery sandy CLAY with and.	abundant pockets of orange	e brown			
				2.70	=	Soft to firm brown C	I AV with occasional r	oockets of orange brown cla	av			
3.00		D		83 (0.80)	3-	Goit to limit brown o	EAT WITH OCCUSIONAL P	ockets of drange brown de	uy.	 		
	3.						End of Trial P			- ====		
				- 82	4-							
				-	-							
				- 81	5							
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				80	6							
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				E	-							
				- 78	8-							
				E								
				E	-							
				- - - 77	9-							
				-								
				E	-							
				E	-							
GROL	JNDWA <sup>.</sup>	TER		REMARKS	-			KEY				
						remained stable. No groundwater encountered. Trial pit backfilled with  B - Bulk disturbed sample D - Disturbed samples (plastic tub)  M - In Situ Mexecone CBR Test						
				Material logged in gener	Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688  BAE TP Log v1.3							

SIT		Woo	dford Phase	1 SI	CLIENT Avro Herit	age Ltd	BAES	YSTEMS		
DDO	ECT NU	IMPED	CO-ORDINA	TEO	GROUND ELEVATION (mAOD)	HOLE DEDTH (m)		TRIAL PIT		
				90308.20	84.411	2.70	Sheet 1 of 1	TP47		
	A1065	5-00	N - 38	32126.01	04.411	2.10				
PLAN <sup>®</sup>	Т		DIMENSIONS	5	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50		
					19/0 //2012					
			TESTS TEST RESULTS	STRATA  LEVEL (THICKNESS)	DEPTH DESCRIPTION			LEGEND WATER		
	(mbgl)		TEST RESULTS	(mAOD) mbgl (m)	(mbgl) DESCRIPTION					
0.10 0.40 0.40 0.40		D HV HV	1 - 72kPa 2 - 66kPa 3 - 70kPa	(0.20) 0.20 (0.80)	gravel of mixed litho	Brown reworked sandy clay nd some fine to coarse sul plogy and charcoal cobbles h abundant pockets of ora	o angular to sub rounded s.			
0.40		D		83 1.00		n SAND with some lenses	of orange brown sand an	d		
1.20		D		(0.50)	occasional plant rer	mains arse SAND with some med	dium light brown sand			
1.80		D			2-					
2.70		D		2.50 - (0.20) - 2.70	Brown gravelly cobl	bly SAND. Gravel is fine to	coarse subangular to			
				- 81	3	End of Trial Pit at 2		/		
				-  -  -	=					
				- -						
				-	_ ]					
				<del>-</del> 80 - -	4					
				<u>-</u>						
					]					
				<del>-</del> 79	5					
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				- - -	-					
				- 78	6—					
				-  -  -	1					
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				77 - -	7—					
				-  -  -						
				<u> </u>	1					
				<del>-</del> 76	8-					
				-						
				-						
				- 75	9-					
				F						
				E	=					
					=					
					-		WEY.			
GROU DEPT	JNDWA H (m)		HAVIOUR	REMARKS Trial pit remain arisings.	; led stable. No groundwater enco	untered. Trial pit backfilled with	KEY  B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass ja ES - Disturbed sample (tub and W - Water sample	r) P - In Situ CBR Plate Test		
				Material logged in gener	ral accordance with BS 5930 (as amended) & I	3S EN ISO 14688 BAF TP I	og v1 3			

SITE						CLIENT				_
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS	
PROJ	ECT N	JMBER	CO-ORDINA	TES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	A1065	5-00		90173.02 32036.36		83.703	2.80	Sheet 1 of 1	TP48	
PLAN	T		DIMENSIONS	3	DATI	Ē	LOGGED BY	CHECKED BY	SCALE	
				-		23/01/2012			1:50	
SAN	1PLF	S & T	ESTS	STRATA						
TOP (mbgl)			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND	WATER
0.10	(5)	D					Dark brown sandy clayey	topsoil (reworked)		
0.50		D		(0.20) 0.20 (0.50)	-	Soft light brown ver		topoon [romomos].		
0.50				0.70	=	Links have a second	See to see divers OAND.	2	. 357833	
0.90		D		83	1-	quartz.	y tine to medium SAND. (	Gravel is fine subangular o	ΣT	
				83 (0.80)	1					
				1.50	=	Light brown alayay	fine SAND. Running sand	d ingress at 1 Em		
1.80		D		-	=	Light brown clayey	ille SAND. Ruilling Sand	a iligiess at 1.5iii		
				82 (1.30)	2					
				(1.50)	=					
				-  -						
2.80		D		2.80	_ ]					
				81 	3-					
				E	=					
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				-	=					
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				<del>-</del> 79	5					
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				F						
05.5	INIB	TES.		- -				KEY		
GROUNDWATER  DEPTH (m) BEHAVIOUR  Sides unstable contactfilled with an				Sides unstable	collap	se of sidewalls - pit comples.	eted at 2.8m. Trial pit	B - Bulk disturbed sample D - Disturbed samples (plasti G - Disturbed sample (glass j ES - Disturbed sample (tub an	ar) P - In Situ CBR Plate Te	BR Test est
				Material logged in conc	ral accord	lance with BS 5930 (as amended) & I	RS EN ISO 14688	W - Water sample		

Woodford Phase 1 SI  ROJECT NUMBER CO-ORDINATES  E - 389977.41	Avro Heri GROUND ELEVATION (MAOD)	tage Ltd	BAES	YSTEMS	1		
	GROUND ELEVATION (mAOD)		1	BAE SYSTEMS			
F - 380077 //1		HOLE DEPTH (m)		TRIAL PIT			
A1065-00 N - 381844.28	84.427	2.70	Sheet 1 of 1	TP49			
LANT DIMENSIONS	DATE 18/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50			
AMPLES & TESTS STRATA							
	DESCRIPTION			LEGEND W	VATER		
.10 D C (0.20) - (0.20) - (0.20) 0.4	MADE GROUND: I lithology including of subrounded of mixe	Dark brown sandy gravell concrete and clinker. Gra ed lithology including con	ly clay with some cobbles ovel is subangular to acrete and clinker.	of mixed			
.70 D	11		t pockets of orange brown	sandy clay			
.00	brown and dark bro	own sandy clay and rare s ed lithology. Abundant po	undant pockets of orange subangular to subrounded ockets of orange brown an	gravel d			
.80	Firm brown CLAY of grey sandy clay	with abundant pockets of	orange brown and rare po subangular to subrounded stiff from 2.2m.	ockets			
2.4	Firm to stiff CLAY	with abundant lenses of n	nedium light brown sand.				
.60 D - (0.30)	-	End of Trial Pit a		Steel Steel			
	4						
arisings.	Sined stable. No groundwater enco		KEY  B - Bulk disturbed sample ith  D - Disturbed samples (plast G - Disturbed sample (glass ES - Disturbed sample (tub an W - Water sample	jar) P - In Situ CBR Plate Test	R Test st		

SIT		Woo	dford Phase	1 SI	CLIENT Avro Heritage Ltd			BAES	YSTE	MS
PRO I	ECT NI	IMRER	CO-ORDINA	TES	GRO	DUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	A1065			90088.50	Oite	83.294	2.70	Sheet 1 of 1		P50
		J-00		31864.10						1 00
PLAN	Т		DIMENSIONS	-	DAT	E 19/01/2012	LOGGED BY	CHECKED BY	SCALE	1:50
			ESTS	STRATA	•					
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	(mAOD) mbgl (m)	DEPTH (mbgl)	DESCRIPTION				LEGEND WATER
0.10		D		(0.20)	-	MADE GROUND: L brown sandy clay [r	ight brown sandy clay with eworked].	abundant pockets of or	range	E-E-E-
0.50 0.50		HV HV HV	1 - 58kPa 2 - 60kPa	(0.50)	-	Firm brown sandy 0 very sandy clay.	CLAY with abundant pocke	ets of orange brown and	grey	
0.50 0.50 1.00 1.00 1.00 1.00		7 1 1 1 1 1 1 1	3 - 54kPa 1 - 52kPa 2 - 58kPa 3 - 54kPa		1-	rare fine to coarse r	AY with some pockets of o ounded to subrounded gra pockets of medium light b	avel and cobbles of plant	y and t	
				_	-					**************************************
2.10		D		- - - - - - - - - - - - - - - - - - -	2	Light brown / grey n	nedium SAND.			××××-
				2.40	-	Grey sandy fine to o	coarse sub angular to sub	rounded GRAVEL and (	COBBLES	2 · 0 · · · 0 · 0 · · · · · · · · · · ·
2.70		D		2.70	3-	of mixed lithology.	End of Trial Pit at 2	2.70 m		
	-80 - - -									
				Ē	-					
				79 	4 -					
				-	-					
				-	-					
				_ 78	5-					
				<u>-</u>	-					
				-  -  -	-					
				- - 77	6	-				
				- -	-					
				E	-					
				_ 76	7-					
				_	-					
				-  -  -	-					
				- - 75	8-					
				- 70	-					
				-	-					
				- -	-	- - -				
				74 - -	9-	1				
				[- -	-					
				-  -	-					
				-						
GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit remaind arisings.						able. No groundwater enco	untered. Trial pit backfilled with	KEY  B - Bulk disturbed sample D - Disturbed samples (plass G - Disturbed sample (spass ES - Disturbed sample (tub an W - Water sample	tic tub) M - In Situ jar) P - In Situ	I Hand Vane Test I Mexecone CBR Test I CBR Plate Test I Ionisation Detector
				Material logged in gene	ral acco	rdance with BS 5930 (as amended) & E	3S EN ISO 14688 RAF TP I	og v1.3		

SITE		CLIENT			STERRITOR OF THE T
Woodford Pl	hase 1 SI	Avro Herit	age Ltd	BAES	YSTEMS
PROJECT NUMBER CO-C	ORDINATES	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
A1065-00	E - 390393.04 N - 381868.71	84.137	2.30	Sheet 1 of 1	TP51
PLANT DIME	ENSIONS -	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50
SAMPLES & TESTS	STRATA				
TOP BASE TYPE TEST RES	SULTS LEVEL BASE (MAOD) (THICKNESS) DE (MAOD) (MAOD)	DESCRIPTION			LEGEND WATER
0.10 D	(0.30)	MADE GROUND: R subangular to subro	eworked brown sandy unded gravel and cobb	clay with rare fine to coarsoles of mixed lithology.	е
0.50 D	(0.50)	MADE GROUND: M pockets of orange b 0.5m.	ledium light brown rew rown and grey sand. C	orked clayey sand with abu lay land drain encountered	ındant at
1.00 HV 1 - 108kPa 1.00 HV 2 - 62kPa 1.00 HV 3 - 76kPa 1.00 D	Pa = 83 (0.40)	1 Firm to stiff brown C	e fine to coarse suban	ckets of orange brown and gular to subrounded gravel	grey and
1.50 D	- - - - - - - - 82	Medium light brown	SAND with lenses of s o subrounded gravel a	oft grey clay and some fine nd cobbles of mixed litholog	e to gy.
2.30 D	2.30				
		3- 4- 5- 8-			
GROUNDWATER DEPTH (m) BEHAVIOUR	arisings.	ed stable. No groundwater encou		KEY B - Bulk disturbed sample D - Disturbed samples (plas G - Disturbed sample (glass ES - Disturbed sample (tub a W - Water sample	i jar) P - In Situ CBR Plate Test

SITE Woodford Phase 1 SI							CLIENT  Avro Heritage Ltd				BAES	YSTE	MS
									_	la.	Section 1986		
		JMBER			ES 9839.0	)2	GRO	OUND ELEVATION (mAOD)			Na	TRIAL PIT	
	A1065	5-00		N - 38	1777.0	06		88.110	3.50		Sheet 1 of 1		TP52
PLAN	Г		DIMENS	IONS	-		DAT	E 18/01/2012	LOGGED BY	CHECKE	ED BY	SCALE	1:50
SAM	IPLE:	S & 1	ESTS		STF	RATA							
			TEST RESUL	TS	LEVEL (mAOD)		DEPTH (mbgl)	DESCRIPTION					LEGEND WATER
TOP	BASE			TS	LEVEL (mAOD)	(0.30) (1.00) (2.20) (2.20)	DEPTH (mbgi)	MADE GROUND: It to subrounded grave and blaes.  Firm light grey CLA and some fine to confirm to stiff reddish grey clay, Becoming	Dark brown sandy clay with el and cobbles of mixed lift  Y with abundant pockets of parse gravel and cobbles of brown CLAY with some pig sandy with some fine to cobbles of mudstone from End of Trial Pit at a series of the cobbles of mixed pig and pig at a series of the cobbles of mixed pig at a series of the cobbles of mixed pig at a series of the cobbles of the c	of orange of mixed oockets o coarse s n 2.1m.	ncluding clinker brown sandy cla lithology.  f orange brown a	ny nd	LEGEND WATER
arisings.					Tria arisi	l pit remair ings.	ed sta	able. No groundwater enco	untered. Trial pit backfilled with	h B D G G ES W	EY - Bulk disturbed sample - Disturbed samples (plastic - Disturbed sample (glass ja - Disturbed sample (tub and - Water sample	tub) M - In Si r) P - In Si	u Hand Vane Test tu Mexecone CBR Test tu CBR Plate Test to Ionisation Detector

SIT		Woo	dford Phase	1 SI	CI	LIENT Avro Herit	age Ltd	BAE	SYSTI	EMS
DDO	ECT NU	IMPED	CO-ORDINA	TEC	CD(	DUND ELEVATION (mAOD)	HOLE DEDTH (m)	-	TRIAL PIT	
PROJ				90039.32	GRO	82.824	3.00	Sheet 1 of 1		TP54
	A1065	5-00		81777.22			0.00			1734
PLAN	Т		DIMENSION	S -	DAT	TE 19/01/2012	LOGGED BY	CHECKED BY	SCALE	1:50
SAN	/IPLE	S & 1	ESTS	STRATA			<u>I</u>			
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL BASE (THICKNESS mbgl (m)	DEPTH (mbgl)	DESCRIPTION				LEGEND WATER
0.10 0.50 0.50 0.50		D HV HV	1 - 58kPa 2 - 68kPa 3 - 60kPa	(0.30) - (0.30)		sandy clay, grey sa mixed lithology. Firm grey CLAY wit	Brown sandy clay with occand and subangular to subangular	rounded gravel and co  unge brown sandy clay	bbles of and	
0.50 1.00 1.00 1.00 1.00		D HV HV HV	1 - 32kPa 2 - 52kPa 3 - 44kPa		1-	sand from 1.4m.	nains. Becomes sandy fro	m 1.0m. Lenses of me	edium grey	
2.10		D		- 81 - 81 - (1.10)	2-	Grey gravelly SANE	) with some plant remains			
	- 80 3.0 - 80 - 3.0					- 	End of Trial Pit at		. – – – – – –	
				-  -  -  -						
				- 79 	4-					
				- - - -						
				- 78 - - -	5-					
				- - - - - 77	6-					
				- 76	7-					
				-						
				- 75 	8-					
				- - - -	-					
				74  	9-					
				- - - -	- - - -					
GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit remain arisings.  Material logged in gene					ined sta	-	untered. Trial pit backfilled with	G - Disturbed sample (gl ES - Disturbed sample (tu W - Water sample	olastic tub) M - In S ass jar) P - In S	Situ Hand Vane Test Situ CBR Test Situ CBR Plate Test oto Ionisation Detector

SIT		Woo	dford Phase	1 SI	CI	IENT Avro Herit	age Ltd	BAES	YSTEMS	
PROJ	ECT N	JMBER	CO-ORDIN	ATES	GRO	DUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	A1065	5-00		389788.01 381690.99		85.440	3.30	Sheet 1 of 1	TP56	
PLAN	т		DIMENSIO		DAT	·F	LOGGED BY	CHECKED BY	SCALE	
			DIWLINOIO	-		17/01/2012	LOGGLDBI	OTILONED BY	1:50	
SAN	/PLF	S & 1	TESTS	STRATA						
			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND	WATER
0.10		D D		(0.60)	-	MADE GROUND: Do to subrounded graver clinker.	Park brown sandy clay witle el and cobbles of mixed li	h some fine to coarse sul thology including rare	bangular	
0.80 0.80 0.80 0.80		HV HV D	1 - 80kPa 2 - 64kPa 3 - 66kPa	0.60	1-	Firm to stiff orange and rare subangula	brown CLAY with abunda r to subrounded gravel an	nt pockets of pale grey c d cobbles of mixed lithol	lay ogy.	
0.80 0.80 0.80 1.30		ВОО		1.20	-	Firm grey sandy SIL	T with abundant pockets	of orange brown sand.	X X X X X X X X X X X X X X X X X X X	
				83	2				×××× ×××××	
2.50 2.50 2.50	D HV 2 - 32kPa - (1.00) - (1.00) 82					Soft brown sandy C cobbles of mudston	LAY with some subangula e. Lenses of medium brov	ar to subrounded gravel a wn sand from 3.1m.	and XXX	
3.30	-82					 	End of Trial Pit at	3.30 m	The state of the s	
				- - - -	-					
				- 81 - - -	4-					
					-					
				80  	5-					
				-	- - -					
				- 79 - - - -	6-					
				- - - -78	7-					
				-						
				- 77	8-					
					-					
				- -76	9-					
					-					
				-	-			l vev		
GROUNDWATER  DEPTH (m) BEHAVIOUR  Trial pit remaine arisings.						able. No groundwater encou	untered. Trial pit backfilled witl	KEY  B - Bulk disturbed sample D - Disturbed samples (plast G - Disturbed sample (glass ES - Disturbed sample (fluss W - Water sample	jar) P - In Situ CBR Plate Te	BR Test st
Material logged in gene						dance with BS 5930 (as amended) & E	3S EN ISO 14688 RAF TP	Log v1 3		

SIT		Woo	dford Phase	1 SI	CLIENT Avro Heri	tage Ltd	BAES	YSTEMS
PRO.	ECT NU	JMBFR	CO-ORDINA	TES	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A1065		E - 39	90004.83	82.801	2.90	Sheet 1 of 1	TP57
		J-00		31693.05				
PLAN	Т		DIMENSIONS	-	DATE 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50
SAN	1PLE	S & 1	ESTS	STRATA				
			TEST RESULTS		DESCRIPTION			LEGEND WATER
0.10		D		(0.30)	Firm brown sandy	CLAY with some pockets of sub angular to sub rounder	of orange brown sandy cla d gravel and cobbles of	y and
0.60 0.60 0.60 1.00 1.00 1.00 1.00		HV HV HV HV HV D	1 - 58kPa 2 - 46kPa 3 - 52kPa 1 - 36kPa 2 - 38kPa 3 - 30kPa	- - - - - - - - - (1.80)	Firm grey CLAY wi brown pockets abs medium light brown	th abundant pockets of ora ent from 1.2m, some plant n sand from 1.8m.	inge brown sandy clay. Or remains from 1.2m. Lens	range es of
1.90		D		_ 81	2			
2.50		D		2.10	Light brown / grey s	SAND with occasional plar	it remains.	
				2.90	3-			
					5			
				76    75  	8—			
GROUNDWATER DEPTH (m) BEHAVIOUR 7474					9	untered Trial nit backfilled with	KEY  B - Bulk disturbed sample D - Disturbed samples (plastic	HV - In Situ Hand Vane Test tub) M - In Situ Mexecone CBR Test
	···/	عد ا	2	arisings.	eral accordance with BS 5930 (as amended) &		G - Disturbed sample (glass ja ES - Disturbed sample (tub and W - Water sample	r) P - In Situ CBR Plate Test

SITE  Woodford Phase 1 SI							CI	IENT Avro Herit	rage Ltd	RAFS	YSTEMS
		VVOO	uioi	u Filase	1 31			AVIO Helit	age Liu	JAL J	1011 Ellio
PROJ	IECT N	UMBEF	3	CO-ORDINA		40	GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A106	5-00			9736. 31598.			86.196	3.90	Sheet 1 of 1	TP58
PLAN	T			DIMENSIONS	3		DAT	E	LOGGED BY	CHECKED BY	SCALE
					-			19/01/2012			1:50
SAN	/IPLE	S & 7	ΓES	TS	STI	RATA					
TOP (mbgl)	BASE (mbgl)	TYPE	TEST	T RESULTS	LEVEL (mAOD)	BASE (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION			LEGEND WATER
					F	(0.15) (0.15)	-	MADE GROUND: E	Bitumious surfacing and co	oncrete	
					-	(0.15) (0.15) (0.15) (0.15) (0.45)	-	MADE GROUND: C	Concrete subbase		
0.60		D				(0.40)	-	MADE GROUND: C	Concrete subbase		/ <u>x x x x</u> x <u>x x x x</u> <u>x x x x</u>
1.00		D			- 85	0.85	1-		SILT/CLAY. Soil too friab	le for reliable hand vane.	L××××
1.00					- -		' - -	Orange medium SA	ND		
					-	(1.15)	-				
							-				
					- 84	2.00	2				
2.20 2.20		HV HV		30kPa 55kPa	_		-	Firm orange SILT /	CLAY		
2.20 2.20 2.20		HV D		18kPa	-	(1.00)	-				××××
2.20					-		-				× × × × × × × × × × × ×
					_ 83	3.00	3-	Soft orange SILT			X X X X X X X X
					-		-	Contorainge OIL1			: x x x x x x x x x : x x x x
3.40		D				(0.90)	-				×××× ××××
					_	3.90	-				: × × × × × × × × × × × × × × × × × × ×
					82 -	3.90	4 –		End of Trial Pit at	3.90 m	
							-				
					_		-				
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					<del>-</del> 81		5-				
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					- 80		6-				
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					-		-				
					_ 79		7-				
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					-		-				
					<del> 77</del>		9-				
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GR∩I	JNDWA	TER			PE	MADKO				KEY	
	H (m)		HAVIO	OUR	Tria	WIATRO  B - Bulk disturbed sample HV  all pit remained stable. No groundwater encountered. Trial pit backfilled with G- Disturbed sample (plastic tub) M  G- Disturbed sample (glass jar) P  G- Disturbed sample (glass jar)				ar) P - In Situ CBR Plate Test	
Material logged in gene							ral accor	dance with BS 5930 (as amended) & E	BAE TP	Log v1.3	

SITE		CLIENT			
Woodfo	rd Phase 1 SI	Avro Herit	age Ltd	BAES	YSTEMS
PROJECT NUMBER	CO-ORDINATES	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
A1065-00	E - 389835.61 N - 381611.87	84.347	2.70	Sheet 1 of 1	TP59
PLANT	DIMENSIONS -	DATE 17/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50
SAMPLES & TES	STS STRATA			1	
TOP BASE TYPE TES	TRESULTS LEVEL (MAOD) (THICKNESS) mbgl (m)	DESCRIPTION			LEGEND WATER
0.10	(0.40) (0.40) (0.40) (0.40) (0.70) (0.70) (0.70) (0.30) (0.30) (0.30) (0.60) (0.50) (0.20) (0.20) (0.27) (0.20) (0.70) (0.50) (0.20) (0.70) (0.50) (0.20) (0.70) (0.70) (0.50) (0.20) (0.70) (0.70) (0.50) (0.20) (0.70) (0	MADE GROUND: I mixed lithology inclusubangular to subtroconcrete. Metal pip MADE GROUND: L grey and orange broat southwestern en Firm grey sandy SII Medium brown sand Firm to stiff fracture subangular to subtroconcrete. Metal pip MADE GROUND: L grey and orange broat southwestern en Firm grey sandy SII Medium brown sand Firm to stiff fracture subangular to subtroconcrete. Metal pip MADE GROUND: L grey and orange broat southwestern en Firm grey sandy SII Medium brown sand Firm to stiff fracture subangular to subtroconcrete. Metal pip MADE GROUND: L grey and orange broat southwestern en Firm grey sandy SII Medium brown sand Firm to stiff fracture subangular to subtroconcrete. Metal pip MADE GROUND: L grey and orange broat southwestern en Firm grey sandy SII Medium brown sand Firm to stiff fracture subangular to subtroconcrete. Metal pip MADE GROUND: L grey and orange broat southwestern en Firm grey sandy SII Medium brown sand Firm to stiff fracture subangular to subtroconcrete.	ight brown reworked clay own clay. Abundant whole d of trial pit. LT. Clay land drain encou	ncrete. Gravel is including brick, clinker at with abundant pockets of bricks between 0.6 and intered at 1.3m.  Clay from 2.2m.  th some fine to coarse is of mudstone. 2.70 m	obles of and of pale
GROUNDWATER DEPTH (m) BEHAVI	arisings.	ned stable. No groundwater enco		G - Disturbed sample (glass ES - Disturbed sample (tub ai W - Water sample	jar) P - In Situ CBR Plate Test

SITI	E				CLIENT					No. 200	
		Wood	dford Phase	1 SI		Avro Herit	age Ltd		BAES	YSTE	MS
PROJI	ECT NU	JMBER	CO-ORDINA	ATES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)			TRIAL PIT	
	A1065	5-00		389933.74 381607.29		83.778	1.00	5	Sheet 1 of 1	-	ГР60
PLANT	Γ		DIMENSION	IS -	DAT	E 26/01/2012	LOGGED BY	CHECK	ED BY	SCALE	1:50
			ESTS	STRATA	1						
(mbgl)	BASE (mbgl)	TYPE	TEST RESULTS		DEPTH (mbgl)	DESCRIPTION					LEGEND WATER
0.00		_		(0.15) 0.15	-	MADE GROUND: C					
0.30		D D		(0.35)	-	MADE GROUND: L sandstone gravel.	ight brown sandy sub	prounded to s	ubangular med	ium to coarse	
0.00				0.30)	-	MADE GROUND: G	Grey sandy cobbly sub	oangular med	dium to coarse g	gravel.	
1.00		D		- 83 (0.20) 1.00	1-	MADE GROUND: D	ark grey sandy silt wi End of Trial F		c odour.	/	
					-						
				- 82	2						
				[ -	-						
				<del>-</del> 81	3-						
				<u> </u>	-						
					-						
				<del>-</del> 80 - -	4-						
				-	-						
				- - - 79	5						
				- 73	- -						
					-						
				- - - 78	6-						
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				- - - 77	- 7-						
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				E							
				- 76	8-						
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				<del>-</del> 75 - -	9-						
				<u>-</u>	=						
				<u>-</u>	-						
					_			112	EV		
GROUNDWATER  DEPTH (m) BEHAVIOUR  HC odour fro pit terminater					0.5m. t 1m.	Water ingress at 0.5m ma Trial pit remained stable. T	king it impossible to see rial pit backfilled with aris	base, sings.	EY  - Bulk disturbed sample  - Disturbed samples (plass  - Disturbed sample (glass  - Disturbed sample (tub a  / - Water sample	stic tub) M - In Si s jar) P - In Si	tu Hand Vane Test tu Mexecone CBR Test tu CBR Plate Test to Ionisation Detector
				Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688  BAE TP Log v1.3							

SIT	Έ				CLIENT			20 20 20 20		
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS	
PROJ	ECT N	JMBER			GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	٦
	A1065	5-00		389699.27 381517.53		85.435	3.60	Sheet 1 of 1	TP61	
PLAN <sup>1</sup>	T		DIMENSION	IS	DAT	·E	LOGGED BY	CHECKED BY	SCALE	$\dashv$
				-		19/01/2012			1:50	
SAN	1PLE	S & 1	ESTS	STRATA	1					┪
			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND WATE	ĒR
						MADE GROUND: E	Bituminous surfacing			
				(0.15) (0.15) (0.15) (0.15) (0.15) 0.45	-	MADE GROUND: 0	Concrete			
				0.43		MADE GROUND: C	Concrete subbase			
0.80 0.80		B D		F 04		Orange medium SA	ND.			
				- 84 - (1.35)	1-					
				-	-					
				1.80						
1.90		D		83	2	Soft to firm orange silty sand.	brown sandy SILT with po	ockets of medium slightly	×××× ××××	
				(0.90)	-	Sinty Surial			( × × × × ( × × × ×	
				E	-				**** ****	
				2.70	-	Orange medium SA	ND		XXXX	
				82 (0.90)	3-					
3.30		D								
				3.60			End of Trial Pit at			
				- 81	4-					
				-						
				-	-					
				80	5					
				-	-					
				-						
				<del>-</del> 79	6-					
				E	-					
				-	-					
				- 78	7-					
				-	-					
				-  -  -						
				-	-					
				<b>77</b> -	8-					
				-						
				-  -  -	-					
				- 76	9-					
				-  -	-					
				<u>-</u>	-					
								1		╝
GROUNDWATER DEPTH (m) BEHAVIOUR Trial pit remain arisings.						able. No groundwater enco	untered. Trial pit backfilled wit	KEY  B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass is ES - Disturbed sample (tub and W - Water sample	ar) P - In Situ CBR Plate Test	t
				Material logged in gene	ral acco	dance with BS 5930 (as amended) & I	BS EN ISO 14688 BAE TP	Log v1.3		

SIT	SITE Woodford Phase 1 SI						CI	LIENT		PACC	VETEME			
		Woo	dfor	d Phase	1 SI			Avro Herit	age Ltd	BAE 3	YSTEMS			
PROJ	IECT N	UMBEF	₹	CO-ORDINA	TES 39786.	55	GRO	OUND ELEVATION (mAOD)			TRIAL PIT			
	A106	5-00			31543.			83.309	3.70	Sheet 1 of 1	TP62			
PLAN	Т			DIMENSIONS	3		DAT	E 19/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50			
211	//PLE	C 0 -	TEQ	TC	ет	RATA								
				T RESULTS	LEVEL (mAOD)		DEPTH (mbgl)	DESCRIPTION			LEGEND WATER			
					E	(0.15) (0.15) (0.15) (0.15) (0.15) 0.45	-	MADE GROUND: E	Bitumen surfacing					
	$\begin{bmatrix} & & & & & & & & & & & & & & & & & & &$						-	MADE GROUND: Concrete						
0.60 0.60		HV HV		90kPa 10kPa	_	(0.55)		MADE GROUND: C	Concrete subbase					
0.60 0.60		HV D		90kPa	- 82		1-		mottled grey SILT / CLAY		× × × × × × × × × × × × × × × × × × ×			
1.20		D			- 62	1.00	' -	Soft orange brown	mottled grey fine sandy SI	LT	×××× ××××			
					_						×××× ×××××			
					_	(1.20)	-				XXXX XXXX			
					_ 81		2				XXXX XXXX			
					_	2.20	-	Soft orange brown	SILT/CLAY. Becomes firm	er with denth	×××× ××××			
2.40 2.40		HV HV	2 - 5	35kPa 54kPa	-		-	- Cont ordingo brown	ole 170E/ (1. Bosomico illin	or war dopan.	×××× ×××××			
2.40 2.40		HV D	3 - 5	55kPa	_		-				×××× ×××××			
					-80	(1.50)	3				( × × × × × × × × × × × × × × × × × × ×			
					_						×××× ××××			
					_						***** *****			
3.70 3.70		HV HV	2 - 5	70kPa 50kPa	-	3.70	-		End of Trial Pit at	3.70 m				
3.70 3.70		HV D	3 - 7	70kPa	<del>-</del> 79		4-	_						
					_									
					_		-							
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					78 		5-							
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GROUNDWATER DEMARKS					רב	MADICO	-	]		KEY				
	REMARKS DEPTH (m) BEHAVIOUR Trial pit remai arisings.					al pit remair		able. No groundwater enco	untered. Trial pit backfilled witl	B - Bulk disturbed sample	jar) P - In Situ CBR Plate Test			
	Material logged in g							rdance with BS 5930 (as amended) & I	BS EN ISO 14688 BAE TP	Log v1.3				

SITE					CLIENT							
		Woo	dford Phase	e 1 SI	Avro Heri	tage Ltd	BAES	YSTEMS				
PROJ	JECT N	UMBEF	CO-ORDIN	IATES	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT				
	A1065	5-00		389887.84 381534.84	82.810	2.70	Sheet 1 of 1	TP63				
PLAN	т		DIMENSIO		DATE	LOGGED BY	CHECKED BY	SCALE				
LAN			DIWENSIO	-	26/01/2012	LOGGED B1	CHECKED BY	1:50				
CVI	/DI E	C & 7	TESTS	STRATA								
TOP (mbgl)			TEST RESULTS	LEVEL BASE	DEPTH (mbgl) DESCRIPTION			LEGEND WATER				
(mbgi)	(HDgI)			(0.10) 0.10		Bituminous surfacing.						
0.30		D		(0.30)	MADE GROUND: E	Black sandy subangular m	nedium to coarse gravel of	bitumin,				
0.60 0.60		HV HV	1 - 105kPa 3 - 90kPa	(0.50)	brick fragments and large cobbles.  Firm to stiff light brown silty CLAY.							
0.60 0.60	HV 3- 90kPa			0.90		yey SILT. Lenses of runni	ng sand.	<u>×~~×</u>				
0.80 1.10 1.10		D HV HV	4 - 40kPa 5 - 35kPa	(0.90)				<u> </u>				
1.10		HV D	6 - 35kPa		]			***** *****				
2.00		D		1.80	Stiff light brown gra	velly CLAY. Gravel is fine	to medium subrounded to					
2.00		D		(0.90)	subangular of quar	z. Running sand encount	ered at base of trial pit.					
					=							
2.70		D		2.70	<del></del>	End of Trial Pit at	2.70 m					
				<del>-</del> 80	3-							
				-								
				-								
				<del>-</del> 79	4-							
				-	1							
				-	=							
				- 78	5—							
				-	-							
				-	-							
				- 77	6-							
				E	=							
				-	=							
				<del>-</del> 76	7-							
				-								
				-	=							
				75	8-							
				-	-							
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GROL	JNDWA	TER		REMARKS			KEY					
					ed stable. No groundwater enco	untered. Trial pit backfilled wit	G - Disturbed sample (glass ji ES - Disturbed sample (tub and	ar) P - In Situ CBR Plate Test				
				Material logged in copes	ral accordance with BS 5930 (as amended) &	RS EN ISO 14688	W - Water sample					

SITE					CLIENT		4 4 4 4	
		Woo	dford Phase	1 SI	Avro Heri	tage Ltd	BAES	YSTEMS
PROJ	ECT N	UMBEF			GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A1065	5-00		89640.01 81431.95	84.437	3.70	Sheet 1 of 1	TP64
PLAN	Т		DIMENSION	S	DATE	LOGGED BY	CHECKED BY	SCALE
				-	19/01/2012			1:50
SAN	1PLE	S & 7	TESTS	STRATA	1	<u> </u>	1	
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL BASE (THICKNESS) mbgl (m)	DESCRIPTION			LEGEND WATER
				(0.15) 0.15 (0.15) 0.30 (0.15) 0.45	MADE GROUND: E	Bituminous surfacing		
				(0.15) 0.30	MADE GROUND: (	Concrete		
				F	MADE GROUND: 0	Concrete subbase.		
0.80		D		(0.65)	Firm orange sandy	SILT. Silt is friable.		(
1.30		D		1.10	Orange medium SA	AND		××××
1.30				- - -				
				-	=			
				- 82	2-			
				- -	-			
				(2.60)	=			
					=			
3.00		D		<del>-</del> 81	3			
				_	1			
				3.70	=			
				E	. =	End of Trial Pit at	3.70 m	
				<del>-</del> 80	4-			
				_ -	=			
				- -	=			
				- 79	5—			
				-				
				<u>-</u> -	=			
				-	-			
				<del>-</del> 78	6-			
				= = =	=			
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				_				
				<b>77</b> -	7-			
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				-	]			
				- 76	8-			
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				<u>-</u>	1			
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				<del> </del>  -	-			
				<u>-</u>	=			
					-			
GROU DEPT	JNDWA H (m)		HAVIOUR	arisings.	ed stable. No groundwater enco	·	KEY  B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass is ES - Disturbed sample (tub and W - Water sample	ar) P - In Situ CBR Plate Test
				Material logged in gene	ral accordance with BS 5930 (as amended) &	BS EN ISO 14688 BAE TP	Log v1.3	

SIT	BITE					IENT		24.0		
		Woo	dford Phase	e 1 SI		Avro Heri	tage Ltd	ВА	ESYST	EMS
PROJ	ECT N	UMBEF			GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL P	Т
	A1065	5-00		389750.96 381447.31		82.414	3.00	Sheet 1 o	f 1	TP65
PLAN <sup>-</sup>	Т		DIMENSIO	NS -	DATI	E 26/01/2012	LOGGED BY	CHECKED BY	SCALE	1:50
			TESTS	STRATA				,	,	
TOP (mbgl)	BASE (mbgl)	TYPE	TEST RESULTS	LEVEL BASE (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION				LEGEND WATER
				(0.10) 0.10	+	MADE GROUND: E	Bituminous surfacing			
0.30		D D		(0.30) - 0.40	]	MADE GROUND: 0 fragments	Grey gravelly clay with	large concrete bould	ers and brick	
0.70 0.70		HV HV	1 - 60kPa 2 - 75kPa	(0.60)	=	Firm to stiff orange	brown mottled grey sa	andy CLAY.		
0.70 1.10		HV HV	3 - 90kPa 3 - 30kPa	81 1.00	1	Soft light brown sar	ndv CLAY.			
1.10 1.10		HV HV	4 - 40kPa 5 - 30kPa	(0.80)	=		,			
1.10		D		(0.00)	=					
				1.80	]	Light brown clavev	fine to medium SAND	)		<u> </u>
2.20		D		<del>-</del> 80	2-	g, .,				
2.20				(0.90)	=					
				2.70	1					and Controlled Local Solutions Local Solutions Salaring
3.00		D		(0.30) -79 3.00	3	Firm to stiff light bro to medium of quart	own sandy gravelly CL z.	AY. Gravel is subrou	nded fine	
3.00				-79 3.00	3	`~::::::::::::::::::::::::::::::::::::	End of Trial F	 Pit at 3.00 m		1500.000
				-	=					
					=					
				- -78	4					
				- 76	•					
				_	=					
					=					
				- - -77	5					
				ļ						
				Ē	=					
				E	=					
				- 76	6-					
				E	=					
				-	=					
				-	=					
				<del>-</del> 75	7-					
				-	=					
				-	=					
				-	=					
				<del>-</del> 74	8					
				-	=					
				-	=					
				-	=					
				<del>-</del> 73	9-					
				-	=					
				-	=					
				-	=					
				-	=					
GROU DEPT	JNDWA H (m)		HAVIOUR	REMARKS Sidewalls unsta	RKS  Ils unstable and collapsing from 1.8m. Trial pit backfilled with arisings.    KEY   B. Bulk disturbed sample (plastic tub)   D. Disturbed sample (glastic tub)   G. Disturbed sample (glast)   P - In Situ Mexecone CBR Test   ES. Disturbed sample (glabs jar)   P - In Situ CBR Plate Test   PID - Photo Ionisation Detector   PID - PID					
				Material logged in gener	al accord	dance with BS 5930 (as amended) &	BS EN ISO 14688 B	AE TP Log v1.3	<u> </u>	

SIT		Woo	dford Phase ´	I SI	CLIENT Avro Herit	age Ltd	BAES	YSTEMS		
							_			
PRO	IECT N	JMBER		ES 9824.23	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT		
	A106	5-00		1435.16	82.362	0.15	Sheet 1 of 1	TP66		
PLAN	Т		DIMENSIONS	;	DATE	LOGGED BY	CHECKED BY	SCALE		
				-	19/01/2012			1:50		
SAN	/DI E	S & 7	ESTS	STRATA						
TOP			TEST RESULTS		DESCRIPTION			LEGEND WATER		
(mbgl)	(mbgl)				1					
				(0.15) - - -	MADE GROUND: F	Reinforced concrete.  End of Trial Pit	at 0.15 m			
				-	=	2.10 01 1.10.1 1.				
				<del>-</del> -	]					
				<del>-</del> 81	1-					
				_	-					
				_	]					
				_	=					
				<del>-</del> 80	2-					
				_	]					
				_	1					
				- - - <b>7</b> 0	2					
				<del>-</del> 79	3-					
				- -	=					
				<del>-</del> -	=					
				- <del>-</del> 78	4-					
				-	·					
				_						
				_						
				- 77	5					
				_	]					
				<del>-</del> - -	_					
				<del>-</del> -	-					
				<del>-</del> 76	6-					
				-	=					
				<del>-</del> -	]					
				_	1					
				<del>-</del> 75	7-					
				_	]					
				_	=					
				- - - <b>7</b> 4						
				<u>-</u> 74 -	8—					
				<del>-</del> - -	1					
				<del>-</del> -	-					
				- 73	9-					
				= = =	1					
				<del> </del> = =	=					
				-  -	=					
					=					
	JNDWA	TER		REMARKS			KEY B - Bulk disturbed sample	HV - In Situ Hand Vane Test		
DEPT	H (m)	BE	HAVIOUR	Trial pit remaine arisings.	ed stable. No groundwater enco	untered. Trial pit backfilled	with D - Disturbed samples (plas G - Disturbed sample (glass	tic tub) M - In Situ Mexecone CBR Test jar) P - In Situ CBR Plate Test		
					ES - Disturbed sample (tub and jar)  W - Water sample					
W - Water sample  Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688  BAE TP Log v1.3										

SITE					CLIENT		2022				
		Woo	dford Phase	1 SI	Avro Heri	tage Ltd	BAES	YSTEMS			
PROJ	ECT N	JMBER			GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
	A1065	5-00		89935.70 81437.53	82.528	1.10	Sheet 1 of 1	TP67			
PLAN	Т		DIMENSION	S	DATE	LOGGED BY	CHECKED BY	SCALE			
				-	19/01/2012			1:50			
SAN	1PLE	S & 1	TESTS	STRATA		1	1				
			TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	DESCRIPTION			LEGEND WATER			
				(0.15) 0.15		Concrete					
				(0.30)	MADE GROUND C	Concrete subbase with brid					
0.55		D		(0.65)	MADE GROUND: Grey black sandy silt/clay with some ash; hydrocarbon odour. concrete plinth at 1m, covering part of water pipe.						
0.95		D		82	1 -						
				- 1.10	=	End of Trial Pit at	1.10 m				
				- - -	1						
				- - - 81	2						
				-							
				- - -	1						
				- - -	]						
				<del>-</del> 80	3-						
				- - -							
				- - -							
				- 79	4 -						
				- -	=						
				_ _ _	=						
				-78	5—						
				_ _ _							
				- - 	_ =						
				<del>-</del> 77	6						
				- - -	=						
				-  -  -	1						
				<del>-</del> 76	7 –						
				_	]						
				-  -  -	=						
				- 75	8-						
				E	1						
				- -							
				- 74	9-						
					- <u>-                                  </u>						
-					1						
					1						
GROUNDWATER REMARKS							KEY				
DEPT			HAVIOUR	REMARKS Trial pit remain arisings.	S ned stable. No groundwater enco	untered. Trial pit backfilled witl	B - Bulk disturbed sample	ar) P - In Situ CBR Plate Test			
				Material logged in gen	eral accordance with BS 5930 (as amended) &	BS EN ISO 14688 BAE TP	Log v1.3				

SITE							CL	IENT		20 20 20 20				
		Woo	dfor	d Phase 1	1 SI			Avro Herit	age Ltd	BAES	YSTEMS			
PROJ	ECT N	JMBEF	۲ (	CO-ORDINA			GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
	A1065	5-00			89710.9 81366.			82.427	3.90	Sheet 1 of 1	TP69			
PLAN	T		1	DIMENSIONS	3		DAT	E	LOGGED BY	CHECKED BY	SCALE			
					-			19/01/2012			1:50			
SAN	1PLE	S & 7	TES	ΓS	STI	RATA	ı							
				RESULTS	LEVEL (mAOD)	BASE (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION			LEGEND WATER			
					ļ.	(0.05) 0.05 (0.10) 0.15	-	MADE GROUND B	itumen surfacing		***********			
0.35	(0.05)						-	MADE GROUND: 0	Concrete					
						0.65	=	MADE GROUND: C	Concrete subbase		××××			
0.95 B B 81 (0.65)						(0.65)	1-	Orange medium SA			XXXX XXXXX			
0.95 D						1.30	-			rk grey at surface of strata	1.			
1.50		D			_		-	Soft orange brown	with some grey mottling S	ILT	×××× ××××			
					E	(0.80)	-				××××			
					<del>-</del> 80	2.10	2-	Firm orango brown	mottled grov clightly lamir	nated SILT/CLAY . visible	(xxxx) xxxxx			
2.30 2.30		HV HV	1 - 8 2 - 7	6kPa	Ē	(0.80)	=	plant remains at top		lated SILT/CLAT . VISIBLE	<u> </u>			
2.30		HV B	3 - 8	2kPa	_	(0.00)	=				* * * * * * * * * * * * * * * * * * *			
2.30 3.00		D D			- - 79	2.90	3-	Orange brown very	silty fine SAND.					
					_		=				* * * *			
					-	(1.00)	=				*			
3.90		D				3.90					·			
					- 78 -		4-	End of Trial Pit at 3.90 m						
					-		-							
					-		-							
					_ 77		5							
					_		=							
					-		-							
					- 70		_							
					76 		6-							
					_		=							
					-		-							
					- 75 		7-							
					_		=							
					_		-							
					- 74		8-							
							-							
					-		-							
							-							
-73							9-							
							=							
							-							
-					<u> </u>		-							
GROUNDWATER REMARKS					RE	MARKS	<del>-</del>	I		KEY	HV - In Situ Hand Vane Test			
DEPT							ed sta	ble. No groundwater enco	untered. Trial pit backfilled wit	B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass ja ES - Disturbed sample (tub and W - Water sample	tub) M - In Situ Mexecone CBR Test P - In Situ CBR Plate Test			
	Material logged in g							dance with BS 5930 (as amended) & I	BAE TP	Log v1.3				

SIT		Woo	dford Phase	1 SI	CLIENT  Avro Heritage Ltd			BAES	YSTE	MS
										_
PROJ	ECT N	JMBER		ATES 89890.43	GRO	UND ELEVATION (mAOD)			TRIAL PIT	
	A1065	5-00		81352.75		82.196	3.30	Sheet 1 of 1	7	ΓP71
PLAN	Т		DIMENSION	S	DATI		LOGGED BY	CHECKED BY	SCALE	
				-		25/01/2012				1:50
			TESTS	STRATA				,	1	
TOP (mbgl)	(mbgl)	TYPE	TEST RESULTS		DEPTH (mbgl)	DESCRIPTION				LEGEND WATER
				(0.20)	4		Bituminous surfacing			
				(0.70)	=	MADE GROUND: Y	'ellow sandy cobbly angu	lar medium to coarse sto	ne.	
				-	=					
0.90		D		-81 <sup>(0.10)</sup> 0.90	1-	MADE GROUND: D	/			
				E	=	Light brown fine to I	medium SAND			
1.70 D (1.20)										
		_		- 80	2					
				2.20		Soft light brown san	idy SII T			××××
2.50		D		(0.40)		Ook light brown sai	ldy OIL1.			× × × × × ×
				F	=	Dark brown mediun	n gravelly SAND.			
				-79 <sup>(0.70)</sup>	3-					
3.30		D		3.30	=		 End of Trial Pit at			
				-	=					
				_ 78	4-					
				-  -  -						
				E	-					
				<b>77</b>	5-					
				-	=					
				F	=					
				_ 76	6					
				-	=					
				-  -  -	=					
				-	=					
				75 	7-					
				Ė	=					
				-	=					
				_ 74	8					
				-	=					
				F	=					
				72	<u>,</u> =					
				73 	9-					
				E	=					
					=					
-					‡					<u>                                      </u>
GROU DEPT	JNDWA H (m)		HAVIOUR	arisings.	ed sta	ble. No groundwater encou	untered. Trial pit backfilled wi	th  B - Bulk disturbed sample D - Disturbed sample (plast G - Disturbed sample (plast SS - Disturbed sample (tub ar W - Water sample	tic tub) M - In Si jar) P - In Si	tu Hand Vane Test tu Mexecone CBR Test tu CBR Plate Test to Ionisation Detector

SIT	SITE Woodford Phase 1 SI				CLIENT Avra Haritaga I td			242.5	VOTERS			
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS			
PROJ	ECT N	UMBEF		TES 39701.46	GROUND ELEV	ATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT			
	A106	5-00		81314.94	82.2	262	3.00	Sheet 1 of 1	TP72			
PLAN	Т		DIMENSION	S	DATE 27/01/	/2012	LOGGED BY	CHECKED BY	SCALE 1:50			
	4DI E	0.0.7	FE0.T0	- LOTDATA	277011	2012			1.50			
			TESTS TEST RESULTS	STRATA  LEVEL BASE (THICKNESS) mbgl (m)	DEPTH (mbgl) DESCRI	PTION			LEGEND WATER			
(mbgi)	(mbgi)			(0.08) 0.08			Bituminous surfacing					
0.50		D		(0.82)	1 -			ular gravel with whole bric	ks			
1.00		D		0.90	1 MADE	GROUND: L	ight brown clayey silt w	ith brick fragments.				
1.40		D		1.30	- Soft lig	Soft light brown clayey SILT.						
				(1.00)		XXXXX						
				80	2				× × × × × × × × • × × × ×			
2.30		D		2.30	- Very s	oft light grey	sandy clayey organic S	ILT	× × × × × × × × × × × × × × × × × × ×			
				(0.60)	]				× 3/6 × × × × 5 × 3/6 ×			
3.00		D		79 <sup>(0.10)</sup> 2.90	3 Light b	prown silty fin	e SAND with organic ma		×××**			
				_	=		End of Trial Pit	at 3.00 m				
				- - -	3							
				- 78	4							
				<u>-</u>	=							
				_	=							
				- 77	5							
				-	=							
				- -	=							
				_ 76	6							
				-	]							
				-  -  -	=							
				_ <u>-</u> 75	7-							
					=							
				-  -  -	]							
				- 74	8-							
				_	1							
				- 73	9-							
- 13 - 1					-							
- - - -					=							
					=							
GROL	JNDWA	TER		REMARKS				KEY				
DEPT			HAVIOUR			oundwater enco	untered. Trial pit backfilled v	with  B - Bulk disturbed sample D - Disturbed samples (plas G - Disturbed sample (glas ES - Disturbed sample (tub a W - Water sample	s jar) P - In Situ CBR Plate Test			
				Material logged in gener	al accordance with BS 5	5930 (as amended) & I	BS EN ISO 14688 BAE	TP Log v1.3				

SITE					CL	IENT				$\neg$
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS	
PROJ	ECT N	JMBER			GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	A1065	5-00		39887.54 31283.47		82.244	2.90	Sheet 1 of 1	TP73	
PLAN	т		DIMENSIONS		DATI	=	LOGGED BY	CHECKED BY	SCALE	$\dashv$
,			BINIEROION	-		26/01/2012	LOGGED B1	ONEONED DI	1:50	
CVI	/DI E	C 0 T	TESTS	STRATA						$\dashv$
			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND WAT	ER
(mbgl)	(mbgl)			(0.10) 0.10	(mogi)		Bituminous surfacing			$\dashv$
0.30		D		(0.40)	=		Dark grey sandy clay with	whole bricks		
0.60		D		0.50	=		ight brown sandy clay wit			
		_		0.80	. ]		ight brown reworked silty			
1.00		D		81 (0.60)	1-			•		
				1.40	1	Very soft light brow	n sandy CLAY			
1.70		D		-	=	very continging and a				
				80 <sub>(1.30)</sub>	2					
					=					
				-	=				man in the second of the secon	
2.90		D		$\begin{bmatrix} & & 2.70 \\ & & (0.20) \\ & & \end{bmatrix}$	_ =	Very soft light grey	sandy organic SILT.		× 216 × × 216	
				79 <sup>2.00</sup>	3-		End of Trial Pit at	2.90 m		
				-  -	=					
				E	-					
				- 78	4					
				-  -  -	=					
				_	=					
				E	=					
				<del>-</del> 77 -	5-					
				-	=					
				-	=					
				- 76	6					
				-  -  -	=					
				_	=					
				-	1					
				<del>-</del> 75 -	7-					
				-	=					
				-	=					
				- 74	8-					
				<del>-</del> - -	=					
				_	=					
				<u>-</u>	=					
				<del>-</del> 73 -	9-					
					-					
					=					
GROU DEPT	JNDWA H (m)		HAVIOUR	REMARKS Trial pit remain arisings.		ble. No groundwater enco	untered. Trial pit backfilled wit	G - Disturbed sample (glass ES - Disturbed sample (tub ar	jar) P - In Situ CBR Plate Test	st
				Material logged in generation	ral accord	lance with BS 5930 (as amended) & I	BAE TP	W - Water sample  Log v1.3		

SIT	SITE					IENT		26.21.5		in a final i	
	V	Voodf	ord Phase	1 SI		Avro Herit	age Ltd	BAES	SYST	EMS	
PRO	IECT NUN	MBER	CO-ORDINA	TES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PI	Т	
	A1065-	00		89476.97 81813.90		85.243	2.50	Sheet 1 of 1		TP74	
PLAN	Т		DIMENSION	S -	DATI	E 18/01/2012	LOGGED BY	CHECKED BY	SCALE	1:50	
SAN	/IPLES	& TE	STS	STRATA	1						
TOP (mbgl)	BASE (mbgl)	YPE TI	EST RESULTS	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION				LEGEND WATER	
0.10		D		(0.20) (0.10) 0.20 0.30	- - - -	MADE GROUND: B	lack fine to coarse sub	o angular to sub rounded s gy including abundant clini	andy ker.		
0.50 D C (0.40)						MADE GROUND: D pockets of light brow rounded gravel and	vn sand and some fine	y reworked clay with abune to coarse sub angular to	dant sub		
1.20	1.20 D = 84 (0.40) - (0.20) 1.					\	ark brown clayey pseu	udofibrous peat with plant	remains and		
1.00		D		(0.20)	-	encountered at 0.8n	n.	dy peaty clay. Clay land dr			
1.80		D		83 2.20	2-	and occasional stiff	grey clay [reworked].	nd with abundant pockets o	of grey sand		
2.50		D		(0.30)	=	Medium light brown		s of medium light brown sa	and		
2.00				2.50	=	\ Medium light brown		5 or mediani light brown Se	ariu.		
				- 82	3	(oa.aaa	End of Trial Pi	t at 2.50 m		-/	
				-	1						
				-	=						
				Ē	=						
				<del>-</del> 81	4						
				-	=						
				-	=						
				-	=						
				80	5-						
					=						
				-	=						
				70	_ =						
				<del>-</del> 79	6-						
				E	=						
				-	=						
				- -78	7						
				-	. 4						
				E	=						
				-	=						
				- -77	8-						
				E	=						
				-	=						
				-	=						
				<del>-</del> 76	9-						
				-	=						
				E	]						
				-	=						
				_							
	ROUNDWATER REMARK EPTH (m) BEHAVIOUR Trial pit remarisings.					mained stable. No groundwater encountered. Trial pit backfilled with    B - Bulk disturbed sample   HV - In Situ Hand Vane Test					
					W - Water sample						
				Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688 BAE TP Log v1.3							

SIT	SITE Woodford Phase 1 SI					IENT Avro Herit	age Ltd	BAES	YSTEMS		
PROJ	ECT N	JMBER	CO-ORDINA	TES	GRO	OUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT		
	A106	5-00	_	39471.88 81731.38		86.012	2.40	Sheet 1 of 1	TP75		
PLAN	т		DIMENSION		DAT		LOGGED BY	CHECKED BY	SCALE		
			DIVIENCION	-	DAI	18/01/2012	LOGGED B1	ONE ONE DI	1:50		
SAN	/PI F	S & T	ESTS	STRATA							
TOP (mbgl)			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND WATER		
0.10		D		(0.20)		Soft very sandy TO occasional subangulithology.	PSOIL with occasional pollar to subrounded gravel a	ckets of pale grey sand ar and cobbles of mixed	nd		
0.60		D		- (0.60) - 0.80	-	MADE GROUND: E	Brown reworked sand with casional fragments of clay	pockets of reddish brown	and dark		
1.00		D		- 85 (0.40) - 1.20	1-		with abundant pockets of r		tiff		
1.50		D		(0.50)	-		SAND with abundant lens	ses of medium light brown			
1.80	1.80 D - 1.					Light brown SAND with some lenses of firm grey clay.					
				2.40	-						
2.50		D		-	=		End of Trial Pit at 2	2.40 m			
				- 83	3-						
				- - -	=						
				- -	=						
				-	-						
				=-82 -	4-						
				<u>-</u> -	=						
				- - -	-						
				- 81	5						
				_	-						
				_	-						
				- 80	6-						
				00 - -	-						
				-	-						
				- -	=						
				<del>-</del> 79	7-						
				- - -	-						
				- -	-						
				- - -78	8-						
				- 70	-						
					-						
				E	=						
77					9-						
					=						
					-						
					-						
GROUNDWATER REMARKS					<del>-</del>	1		KEY			
DEPT						ble. No groundwater enco	untered. Trial pit backfilled with	B - Bulk disturbed sample D - Disturbed samples (plastic G - Disturbed sample (glass ja ES - Disturbed sample (tub and W - Water sample	r) P - In Situ CBR Plate Test		
	Material logged in general accordance with BS 5930 (as amended) & BS EN ISO 14688  BAE TP Log v1.3										

SIT					CLIENT		444	VOTENO
		Woo	dford Phase	1 SI	Avro Heri	tage Ltd	BAES	YSTEMS
PROJ	IECT N	JMBER		TES 91376.02	GROUND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A106	5-00		82519.91	90.702	3.20	Sheet 1 of 1	TP76
PLAN	Т		DIMENSION	S	DATE 23/01/2012	LOGGED BY	CHECKED BY	SCALE 1:50
	4D. F	0.0.7	55050	CTDATA	20/01/2012			1.50
TOP (mbgl)	BASE (mbgl)	S & I	TESTS TEST RESULTS	STRATA  LEVEL BASE (THICKNESS) mbgl (m)	DEPTH (mbgl) DESCRIPTION			LEGEND WATER
(	(mbgi)	D			- MADE GROUND: (	Concrete		1574225
0.17		D		(0.15) (0.15) 0.30	MADE GROUND: E	Black sandy subangular gr	avel of bitumen. Hydroca	rbon
0.50		D		(0.50)	odour.  MADE GROUND: I	ight brown sandy clay [re	worked].	
1.10		HV	1 - 40kPa	90	1 Soft light yellow bro		•	The state of the s
1.10 1.10 1.10		HV D	2 - 50kPa 3 - 30kPa	(0.90)	=			
1.10		D		1.70	Firm to stiff light bro	DWD CLAV		
1.00		D		-89	2	OWIT CLAT.		===
				(1.50)	-			533
				(1.50)	=			
				88	3-			
3.20		D		3.20		End of Trial Pit at	3.20 m	
				-	-			
				- 87	4—			
				- 86	5—			
				-				
				- 85	6—			
				_	1			
				- - 84	7-			
				- 0 <del>4</del> - - -	<u> </u>			
				-	=			
				-	-			
				83 	8			
				-	=			
				82 	9—			
				-	=			
				[	]			
000:	INIDAM	TED		- -			KEY	
	JNDWA <sup>T</sup> H (m)		HAVIOUR	REMARKS Trial pit remain arisings.	; ned stable. No groundwater enco	untered. Trial pit backfilled witl	B - Bulk disturbed sample	ar) P - In Situ CBR Plate Test
L				Material logged in gener	eral accordance with BS 5930 (as amended) &	BS EN ISO 14688 BAE TP	Log v1.3	

SITE				CL	IENT		205		282.7
	Woo	odford Phase	1 SI		Avro Herit	tage Ltd	BAE	SYSTE	MS
PROJEC <sup>-</sup>	T NUMBE	R CO-ORDINA	TES	GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT	
	1065-00	N - 3	89238.10 82708.04		90.130	1.80	Sheet 1 of 1		P77
PLANT		DIMENSION	S -	DATI	25/01/2012	LOGGED BY	CHECKED BY	SCALE	1:50
		TESTS	STRATA			1	1	<b>\</b>	
TOP BA	ASE TYPE	TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	DEPTH (mbgl)	DESCRIPTION				LEGEND WATE
0.10	D		(0.20)	4	MADE GROUND: L	ight brown silty rework	ked topsoil.		
0.40	D		- - - (0.65)	-	MADE GROUND: L concrete and clinke	ight brown sandy grav er, plastic.	relly clay with some whole	bricks,	
0.90 1.10	D D		-89 (0.10) 0.85 (0.25) 0.95	1-	MADE GROUND: E	Black sandy subangula	r gravel. Gravel is ash with	 า /	× × × × × × × × × × × × × × × × × × ×
			1.20	1	Soft grey SILT (Orig			/	
1.60	D			1	Soft grey sandy CL	AY.			
1.80	D		(0.10) 1.70 1.80	2-	Soft orange brown	sandy CLAY (Weather		/	
			- 00	-		End of Trial Pi	it at 1.80 m		
			- - -	=					
			<u>-</u>	=					
			<del>-</del> 87	3					
			- - -	=					
			= = =	=					
			-	=					
			<del>-</del> 86	4-					
			<u>-</u> -	=					
			- -	=					
			- 05	_ =					
			= 85 - -	5-					
			-  -	=					
			_ _ _	=					
			- 84	6					
			=						
			<del>-</del> -	=					
			<u>-</u>	=					
			83	7					
			-	=					
			<u>-</u>	=					
			<u> </u>	_ =					
			<del>-</del> 82	8-					
			<u>-</u>	=					
			<u>-</u> -	=					
			- 81	9-					
			<u> </u>	Ĭ					
			-  -  -	=					
			<u>-</u>	=					
			[ -	=					
GROUND DEPTH (r		EHAVIOUR	REMARKS Trial pit remaine		ble. No groundwater enco	untered. Trial pit backfilled	KEY  B - Bulk disturbed sample D - Disturbed samples (p	lastic tub) M - In Situ	Hand Vane Test Mexecone CBR Test
			arisings.		2	,	G - Disturbed sample (gla ES - Disturbed sample (tul W - Water sample	ass jar) P - In Situ	CBR Plate Test Ionisation Detector
			Material logged in gener	al accord	lance with BS 5930 (as amended) &	BS EN ISO 14688 BA	E TP Log v1.3		

SIT	E				CL	IENT		***	NEW ENGL					
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTE	WS				
PROJ	ECT N	JMBER			GRO	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT					
	A1065	5-00		89187.34 82066.03		85.609	3.10	Sheet 1 of 1	TF	78				
PLAN	Т		DIMENSION	S	DATI		LOGGED BY	CHECKED BY	SCALE					
				-		24/01/2012				:50				
SAN	1PLE	S & 1	TESTS	STRATA										
			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			L	EGEND WATER				
				(0.20)		MADE GROUND: E	Bituminous surfacing.							
0.30		D		(0.40)	=	MADE GROUND: 0	Concrete.							
				0.60	=	Soft to firm light ora	inge brown sandy CLAY.		- 7					
0.80		D		-85 <sub>(0.90)</sub>	1-									
				- (5.5.5)	=									
1.60		D		1.50	=	Red brown clayey f	ine to medium SANDY CL	_AY.						
				-	_ =				2					
2.20		D		84 (1.30)	2-									
				-  -  -	=				5					
				2.80	=	0000			5	container - man primer - manual - man - man - man				
3.10	B3 (0.30)				3	+								
		D = -0.3 % % 3					End of Trial Pit at	3.10 m						
				<del>-</del> - -	=									
				- 82	4									
				- -	=									
				<del>-</del> = =	=									
				- 04	_ =									
				<del>-</del> 81	5-									
				- -	=									
				_	=									
				80	6									
				_ _ _										
				_ _ _	-									
				- 79	7-									
				-  -  -	=									
				-  -  -	=									
				- 78	8									
				-										
				-  -  -	=									
				-  -  -	=									
				<b>77</b> 	9-									
				-  -  -	=									
				-  -  -	=									
				<u>-</u> -	=									
GROU DEPT	JNDWA H (m)		HAVIOUR	REMARKS Sides unstable with arisings.		sing from 1.9m, running sa	and 2.2m. Trial pit backfilled	KEY B - Bulk disturbed sample D - Disturbed samples (plass G - Disturbed sample (glass ES - Disturbed sample (tub ar W - Water sample	tic tub) M - In Situ M jar) P - In Situ C	and Vane Test execone CBR Test BR Plate Test nisation Detector				
				Material logged in gener	ral accord	dance with BS 5930 (as amended) & I	BS EN ISO 14688 BAE TP	Log v1.3						

SIT	E				CLIE	NT			
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS
PROJ	ECT N	JMBER			GROUN	ID ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A1065	5-00		89457.68 81543.75		87.968	3.20	Sheet 1 of 1	TP79
PLAN'	Т		DIMENSION	 S	DATE		LOGGED BY	CHECKED BY	SCALE
				-		27/01/2012			1:50
SAN	1PLE	S & 1	TESTS	STRATA					
			TEST RESULTS		DEPTH D	ESCRIPTION			LEGEND WATER
				E		Very soft light brown	n very sand SILT with org	anic odour [topsoil].	
0.30		D		(0.60)	=				
0.70		D		0.60		Orange brown silty	SAND with occasional sul	orounded gravel of sands	itone.
				- -87 <sub>(0.90)</sub>	1-				
					=				
1.60		D		1.50 (0.20)	1	Firm orange brown	mottled grey very sandy S	BILT	****
1.90		D		<b>-</b>		Very soft pink orang			×××× ××××
				<del>-</del> 86	2-				×××× ×××× ××××
				(1.50)	=				* * * * * * * * * * * * * * *
2.80		D		_ -	=				×××× ××××
		= 85 - - 3.							
		3			+-		End of Trial Pit at	3.20 m	
				<del>-</del> - -	=				
				- 84	4				
				-	Ť =				
				- - -	=				
				= = =	-				
				83	5				
				- -	=				
				-  -  -	=				
				- 82	6				
				_	=				
				=	=				
				-	_ =				
				<u>-</u> -81	7-				
				<u>_</u>	=				
				<u>-</u>	=				
				80	8-				
				- - -	=				
				-  -  -	=				
				- - 79	9-				
				- ' -					
				-  -  -	=				
				<b>-</b>	=				
_				<u>-</u>				LVEY.	
GROU DEPT	JNDWA H (m)		HAVIOUR	REMARKS Sides unstable arisings.	and colla	apsing from approximate	ely 2.5. Trial pit backfilled with	KEY  B - Bulk disturbed sample  D - Disturbed samples (plasti G - Disturbed sample (glass) ES - Disturbed sample (tub an W - Water sample	ar) P - In Situ CBR Plate Test
				Material logged in gener	al accordanc	ce with BS 5930 (as amended) & E	BAE TP	Log v1.3	

SIT				4.01	CL	IENT		PACC	VETEME
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAE 3	YSTEMS
PRO	IECT N	UMBEF		TES 39583.29	GRC	OUND ELEVATION (mAOD)		01 11 51	TRIAL PIT
	A106	5-00		31446.10		85.849	3.50	Sheet 1 of 1	TP80
PLAN	Т		DIMENSIONS	5	DAT	E -	LOGGED BY	CHECKED BY	SCALE 1:50
CVI	/DI E	C 2 7	TESTS	STRATA					
TOP (mbgl)			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND WATER
				(0.40)	-	Soft black sandy sil	t with organic odour [Top	osoil].	
				0.40	-	Orange very silty S	AND with some subround	ded gravel and ocassional	
				-  -  -	-	cobbles of mixed litt	hology. Silt content decre	easewith depth.	
				85 <sub>(1.30)</sub>	1-				
				-  -  -	-				
				1.70	-	Very soft red mottle	d orange very sandy SIL	Т.	×××× ×××× ×××××
				(1.00)	2-				(
				<u>-</u> -	-				(XXXX XXXX XXXX
				2.70 - - - - 83	3-	Orange slightly silty	SAND		× × × ×
				(0.80)	- - -				* * * *
				3.50	=		End of Trial Pit a	 t 3.50 m	
				- 82	4-				
				-	-				
				-	-				
				_ <del>_</del> 81	5-				
				- - -	-				
				_ _ _	=				
				- 80	6				
				_	-				
				-  -  -	-				
				79	7-				
				-  -  -	=				
				<u>-</u>	-				
				<del>-</del> 78	8-				
				<u>-</u>	-				
				_ _ _	-				
				<del>-</del> 77	9-				
				_	-				
				-	- - -				
GBO	INDIA	TEP		DEMARKS				KEY	
	JNDWA TH (m)		HAVIOUR	REMARKS Trial pit remains arisings.	ed sta	ble. No groundwater encou	untered. Trial pit backfilled w	B - Bulk disturbed sample	jar) P - In Situ CBR Plate Test
				Material logged in gener	al accor	dance with BS 5930 (as amended) & E	BS EN ISO 14688 BAE TI	P Log v1.3	

SIT	Έ				CL	IENT		202	
		Woo	dford Phase	1 SI		Avro Herit	age Ltd	BAES	YSTEMS
PRO	IECT N	UMBEF			GRC	UND ELEVATION (mAOD)	HOLE DEPTH (m)		TRIAL PIT
	A106	5-00		39456.24 31544.19		88.013	1.40	Sheet 1 of 1	TPA
PLAN	Т		DIMENSIONS		DAT		LOGGED BY	CHECKED BY	SCALE
				-		-			1:50
SAN	/IPI F	S & 7	ΓESTS	STRATA					
TOP (mbgl)			TEST RESULTS		DEPTH (mbgl)	DESCRIPTION			LEGEND WATER
				(0.40)	=	MADE GROUND: B concrete and metal.	Brown sandy silt with much	subrounded gravel of bi	itumen,
				0.40	=	MADE GROUND: B	Brown mottled yellow sand ded gravel of mixed litholo	y slightly silty clay with ogy.	
				- (0.80) 87	1-				
				1.20	· -	MADE GROUND: R	Red brown sandy angular f	to subangular gravel of b	rick,
				-	=	Concrete and ocass	End of Trial Pit at	1.40 m	
				- - 86	2-				
				-  -  -	=				
				- -	=				
				- - 85	3-				
				- 65 - -	3- -				
					-				
				<u> </u>	=				
				<del>-</del> 84	4-				
				-	=				
				- - -	-				
				- 83	5 -				
				-	=				
				- - -	=				
				- - 82	6-				
				- - -	-				
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				_ _ _ 01	- - -				
				<del>-</del> 81 - -	7-				
				E	-				
				<u> </u>	-				
				<del>-</del> 80	8-				
				E	=				
				E	-				
				_ 79	9-				
				-	=				
				<u> </u>	-				
				-  -  -	-				
	I JNDWA TH (m)		HAVIOUR	REMARKS Trial pit remain arisings.	ed sta	ble. No groundwater encou	untered. Trial pit backfilled with	KEY  B - Bulk disturbed sample D - Disturbed samples (plasti G - Disturbed sample (glass i ES - Disturbed sample (tub an W - Water sample	jar) P - In Situ CBR Plate Test
				Material logged in general	al accor	dance with BS 5930 (as amended) & E	BS EN ISO 14688 BAE TP I	Log v1.3	

SIT		\\/oo	dford Phase	1 QI	CLIENT	Heritage Ltd	BAES	YSTEMS
		VV00	ulolu Filase	1 31	AVIOT	lemage Liu		
PRO	JECT N	UMBEF		TES 39583.89	GROUND ELEVATION (m.	AOD) HOLE DEPTH (m)		TRIAL PIT
	A106	5-00		31444.01	85.719	1.20	Sheet 1 of 1	TPB
PLAN	IT		DIMENSIONS	3	DATE	LOGGED BY	CHECKED BY	SCALE
				-	-			1:50
			TESTS	STRATA				
(mbgl)	(mbgl)	TYPE	TEST RESULTS	LEVEL (THICKNESS) mbgl (m)	DESCRIPTION DESCRIPTION			LEGEND WATER
				(0.30)		ND: Black sandy silt with orga		
				(0.60)	MADE GROUI	ND: Grey sandy slightly silty a of limestone, concrete and bri	ingular to subangular medi ick.	ium to
				0.90 85	1-	End of Trial Pit a	t 1.20 m	
				<u> </u>	1			
				-	]			
				- - - 84	2			
				- 0 <del>4</del> -				
				<u> </u>	=			
				_	1			
				= 83 -	3-			
				- - -				
				-	1			
				- 82	4-			
				- - -	1			
				-	1			
				- 81	5			
				<u>-</u>	1			
				-	3			
				- 80	6—			
				- 00 - -	=			
				E	#			
				<u> </u>	‡			
				79 -	7—			
				_	1			
				<u> </u>	=			
				- -78	8-			
				- - -	1			
				<u> </u>	=			
				- 77	9—			
				<u>-</u>	]			
				Ē	]			
				E	=			
GRO	 Undwa	TER		REMARKS	4		KEY	
	ΓΗ (m)		HAVIOUR			encountered. Trial pit backfilled w	ith  B - Bulk disturbed sample D - Disturbed samples (plasti G - Disturbed sample (glass) ES - Disturbed sample (tub an W - Water sample	ar) P - In Situ CBR Plate Test
				Material logged in gener	ral accordance with BS 5930 (as amer	nded) & BS EN ISO 14688 BAE T	P Log v1.3	

#### Hole No. **BOREHOLE LOG BH101** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 23-06-14 70004430 Harrow Estates Plc 24-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389687.160 90.530 Geo Site Surveys Ltd Dando 2000 J Watson N 382859.970

142	MDIF	ES & TE	272									STRAT	.ν	<b>I</b>			Inst
JAI	VIFEL	-3 & IL						Depth				JINAI			1		Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2	Water	Elev. (mAOD)				D	escription			Legend	Geology	D 5 m
0.30-0.40	٦,		0				90.33		ı 🖳	DE GROUND:						MG	V
0.30-0.40 0.70-0.80 1.00-1.20	ES ES ES		0 0			<u>1</u> 1		(2.00)	with ash,	occasional ro	ots. Gravel is	rey brown occ fine to coarse ad various litho	angular and	k gravelly SAND subangular of		MG	
2.00 2.00-2.45	SPT D	1,0,1 0,1,1 N=3(S) SPT	0					(1.00) 3.20	Very with	/ soft extremel occasional po PERFICIAL D	ockets (10-30)	low strength li	ght grey silty o amorphous pe	organic CLAY eat.	× × × × × × × × × × × × × × × × × × ×	SUPD	
2.40-2.60 2.75 3.00-3.45 3.40-3.60 3.75 4.00-5.00 4.75 5.00	ES D U100 ES D U100 D SPT D U100	19 blows 31 blows 1,2,2 2,4,5 N=13(S) SPT 67 blows	0	80 80 72 70 70 78 56				(4.00)	Firm	n medium and	high strength			y slightly unded of various		GDU	
-				40 70			83.33	7.20	6.95	Cobble							1 E
- 8.00	SPT	1,1,2 2,5,9					81.93	(1.40)				fine SAND. (G		,		GDU	
8.00-8.45 8.75 9.50-9.95 10.00	D D U100 D	N=18(S) SPT 71 blows				2	80.23	(1.70)	suba	angular to roui	nded of variou	is lithologies.	(GLACIAL DE			GDU	
11.00	SPT	2,3,2 5,3,3 N=13(S)				<b>2</b>		(2.30)	Med	lium dense ora	angish brown	fine SAND. (G	GLACIAL TILL	)		GDU	
71.00-11.45 11.75 12.50	D D SPT	SPT 2,3,3 4,4,4				÷	77.93 77.53	12.60	Firm			ly gravelly CL/		ine and medium		GDU	
14.00-14.45	D	N=15(S) SPT					76.08	(1.45) 14.45	Med			fine SAND. (G				GDU	
								<u>andananahannahannahannahannahannahannah</u>	Bore	ehole terminat	ed at 14.45m	<b>bg</b> l					
			•	Bori	ng Pı	rogres	SS	-					Water	Strikes			=
Date		Time		Depth	Ī		ng Dpt	Dia. (n	nm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Ca	asing
23-06-14 24-06-14		00.00 00.00		9.00 14.45			.00 1.45						1.10 12.00	20 20	1.10 9.80	- 1	.00 2.00
		Chis	elling					V	Vater	Added	-						
From		То	_	Hours		T	ool	Fror		То	No visual or No radiologic Groundwater	nplete at 14.45m olfactory evidend al readings abort encountered at	ce of contaminative background round in 1.1m bgl as see		ı bgl as gro	undwater	·.
Scal	e 1:12	25				ensio ficatio		etres. Lo	ogs sh	nould be read	in accordance	with the prov	ided Key. Des	criptions are bas	ed on visu	ial and	

				1	
<b>WSP</b>		BOREHOLE LO	OG	Hole	BH102
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrom	е	Shee	et 1 of 1
Job No 70004430	Client	Harrow Estates Plc		Date	14-07-14 15-07-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	(	Ground Level (m AOD)
Geo Site Surveys Ltd	Dando 2000	S McGeever	E 389250.480 N 382705 460		90.020

SA	MPLE	ES & TE		_	_			Donth				STRAT	A			1	Ins Bad
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	/ 5 m
							88.32	(1.70)	MAI	DE GROUND: rse subangula	Light brown s Ir to rounded c	sandy ashy GF of limestone, b	RAVEL. Grave rick and vario	el is fine to us lithologies.		GMG	
2.00-2.45 2.75 3.00 3.75 4.00-4.45 4.45-4.50 5.00 6.50 7.50 8.00-8.45 9.00 9.50 10.00-10.50 11.50-12.00 12.00	U100 D SPT D U100 D SPT D U100 B SPT B SPT B SPT B SPT	2,3,2 3,4,5 N=14(S) 4,4,6 7,8,8 N=29(S) 6,6,5 5,11,17 N=38(S) 3,3,5 4,6,8 N=23(S) 3,4,5 N=14(S)				1 = 2 = = = = = = = = = = = = = = = = =	78.02	(7.80)	(GL	Flight brown at ACIAL DEPO:	SITS)			l lenses.		GDU	
Date		Time	Г	Depth	ily Fi	rogres	ng Dpt	Dia. (m	nm)	Water Dpt	Date	Time	Strike	Strikes Minutes	Standing	Ca	asing
Date		THIC		⊃eh⊞		Casi	пу Брі	ыа. (II	#11 <i>)</i>	νναισι υρι	Date	THE	4.50 9.50	10	3.10		uon IÇ
From		Chis To	elling	Hours		Т	ool	Fron		Added To	No visual or o	nplete at 12.00m olfactory evidend al readings abo	ce of contamina ve background i	recorded.			

			Boring F	Progress					Water	Strikes		
MB	Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
3									4.50	10	3.10	
ဂ္ဂ									9.50			
2												
2												
인		Chise	elling		Water	Added	1					
3[	From	To	Hours	Tool	From	То	General Ren	narks			•	
Ş								plete at 12.00m				
2									ce of contaminative background re			
ᆀ							Groundwater	encountered at	4.50m bgl as se	epage and at 9.	5m bgl as groui	ndwater.
칠							Hole installed	upon completion	n. Response zo	ne 9 to 12m bgl.		

#### Hole No. **BH103 BOREHOLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 **Project** Woodford Aerodrome 1 of 1 Fax: Job No Client Date 24-06-14 70004430 Harrow Estates Plc 26-06-14 Contractor / Driller Method/Plant Used Logged By Co-Ordinates (NGR) Ground Level (m AOD) F 389354 860 Geo Site Surveys Ltd Dando 2000 J Watson 90 330 N 382553.380 Install **SAMPLES & TESTS STRATA** Depth HSV (kN/m2) P.Pen (kN/m2) PID (ppmV) Dia. Elev. Test Depth Description Legend Geology 50 Type (mAOD) (Thick Result mm MADE GROUND: Grass over brown clayey gravelly SAND with occasional sandstone cobbles and occasional metal fragements. Gravel is fine and 0 (1.00) MG 0.40-0.60 ES 89.33 89.13 1.00 coarse of brick, ash, clinker and sandstone. 0 MG MG SPT 1.00 3,13,30 MADE GROUND: Soft brown sandy gravelly CLAY with occasional cobbles. Cravel is fine and medium of brick, ash and clinker. 20 N=50/ 88.73 1.60 0 GDU MADE GROUND: Cobble / Boulder of sandstone. 0.125(S) 1.00-1.20 1.50-1.70 2.00 ES ES SPT 87.83 2.50 1.40 - 1.60 m bgl; Chiselling Firm locally soft greenish brown mottled brown sandy slightly gravelly 1,0,1 0,0,1 70 50 CLAY. Gravel is fine and coarse rounded of various lithologies. (GLACIAL DEPOSITS) N=2(S) SPT 2.00-2.45 D D Firm locally stiff greenish brown mottled brown sandy slightly gravelly 2.75 CLAY. Gravel is fine and coarse rounded of various lithologies. (GLACIAL \_\_\_\_\_\_ 3.00-3.45 3.45-3.60 U100 17 blows 40 DEPOSITS) D D <u>----</u> 5.00 SPT 2.3.3 ō GDU E(6.25) 4,5,6 N=18(S) 70 \_\_\_\_ 5.75 D E6.50-6.95 U100 30 blows 70 F6.95 D 86 40 E8.00 SPT 2,2,2 3.5.5 81.58 8.75 0,5,5 N=15(S) SPT Orange brown medium SAND. (GLACIAL DEPOSITS) 8.00-8.45 D GDU 80.83 9.50 2,3,2 3.3.3 9.50 SPT Medium dense reddish brown medium SAND. (GLACIAL DEPOSITS) 9.50-9.95 4 10.00-10.50 11.00 0,0,5 N=11(S) SPT D B SPT 2,2,3 2,3,3 N=11(S) SPT 11.00-11.45 D GDU F(5.95) SPT 4,4,4 3,3,3 g 12.50 PETEMPLATE1.0 12.50-13.00-14.00

		Boring I	Progress					Water	Strikes		
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								7.50			
	Chis	elling		Water	Added						
From 1.4	To 1.6	Hours 0030 14	Tool 10mm Cross chis	From sel	То	No visual or o No radiologic Groundwater	nplete at 15.45m olfactory evidency al readings abov	e of contaminative background r 7.50m bgl as se		talled upon com	ipletion.
Scale	1:125	Notes: All di	mensions in m	etres. Logs sh	nould be read	in accordance	with the provi	ded Key. Des	criptions are b	ased on visua	l and

Borehole terminated at 15.45m bgl

N=13(S)

SPT

2,2,3 3,4,5 N=15(S) SPT 2,3,4 3,4,6

N=17(S)

SPT

74.88

15.45

12.50-12.95 13.00-13.50

14.00-14.45

15 00-15 45

15.00 GPJ

VERSION.

8

D

SPT

D SPT

D

# Hole No. **BH104 BOREHOLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Client Date 26-06-14 70004430 Harrow Estates Plc 27-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389716.710 N 382556.790 Geo Site Surveys Ltd Dando 2000 J Watson / S McGeever 90.640

SAI	MPLE	ES & TE	STS									STRAT	Ā				Inst
Depth	Туре	Test Result	PID ()	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				С	escription			Legend	Geology	Di 5 m
							90.60	-ness) • 0.04/	MAI	DE GROUND:	ASPHALT.					TARMA	
0.40-0.50	ES		0				90.55 90.49		NAN/	DE GROUND:	CONCRETE			/		CONC	
0.60-0.80	ES		"				90.49		IAM//	DE GROUND:	ASPHALT.				Y	CONC	
1.30-1.50	ES		0				89.74 89.34		NAN/	DE GROUND:	CONCRETE	Ξ.		[	0	MG GDU	10
1.50	SPT	2,3,5 7,6,8					05.54	E 1.50		DE GROUND:			ey sandy fine	to coarse			
	_	N=26(C)						E		angular GRAV					0		
1.50-1.95 2.00	B SPT	3,4,5						(3.30)		wn fine SAND	•		04415			GDU	X
	· .	5,5,6						Ē` ´		lium dense bro rse subrounde				Gravel is fine to			Ø
2.00-2.45	В	N=21(C)						Ē		POSITS)	a to rounded	or various intr	ologico. (OL)	01/ LE	0		Ø
3.00	SPT	3,3,6					00.04	Ē , , , ,		ŕ							
		5,4,4 N=19(C)					86.04	4.60	Den	se brown SAN	ID and fine to	coarse subar	ngular to round	ded GRAVEL of	0000	ODL	Ħ
3.00-3.45	В	, ,					85.44	5.20		ous lithologies			iguiai to rouri	aca crowell or	.0.0.0	GDU	H
4.00	SPT	7,10,15 17,7,6						(4.00)	Loo	se light brown	fine SAND. (	GLACIAL DEI	POSITS)			ODLI	Н
		N=45(C)					04.04	(1.20)								GDU	Н
4.00-4.45 5.00	B SPT	2,2,2					84.24	6.40	Ven	v soft light red	dish brown sli	ahtly sandy sl	ightly gravelly	CLAY. Gravel is			Ħ
.		2,2,4						E I		and medium							
5.00-5.45	В	N=10(S)						(1.80)	DEF	POSITS)					ļ,,-	GDU	Н
6.00	D						00.44	E									Ш
6.50	SPT	1,0,1 0,0,2				\$	82.44	8.20	Med	lium dense br	own silty fine	and medium S	SAND. (GLAC	IAL DEPOSITS)	×		1: [
	_	N=3(S)				₹		E (1.40)			, , , , , , , , , , , , , , , , , , ,		» (OZ)		' . ' .× .	GDU	
6.50-6.95 3.00	B SPT	2,3,3						F							×	ODO	
		3,4,4					81.04	9.60	Firm	n brown slightl	v sandv slight	ly gravelly Cl	ΔΥ Gravel is	fine to coarse	×		1
9.50-9.95	U100	N=14(S) 74 blows						Ē		ular to rounde							
		No						(1.70)								GDU	
10.50	D	recovery					79.34	E 11.30							-0		
11.00	SPT	5,4,3 2,3,3					78.84	11.80	Med	lium dense lig	ht brown silty	fine SAND. (0	SLACIAL DEP	OSITS)	×	GDU	7. [
-		N=11(S)						-	Firm	n brown silty C	LAY. (GLACI	AL DEPOSIT	S)		×××		1
12.00	D	CO hlaa						(1.50)							×× -	GDU	1
12.50-12.95 -	0100	63 blows No					77 24	13.30							X_X		ŀĖ
13.00-13.50	В	recovery					77.54	10.00	Stiff	brown slightly	sandy slightl	y gravelly CLA	Y. Gravel is f	ine and medium			1
13.00-13.50 - 14.00								(1.15)		ular to rounde						GDU	LE
14.00	SPT	2,3,3 2,3,2					76.19	14.45		I5 m bgl; Bore							20
-		N=10(S)															
Date From		Time		Borii Depth	ng Pr	ogres	ss ng Dpt	Dia. (n	nm)	Water Dpt	Date	Time	Strike	Strikes Minutes	Standing	Ci	asing
													8.60				
From		To	elling	l Hours		т.	ool	Fron		Added To	General Rer	marke					
i-TOIII		10		iouis		11	JUI	r10f	11	10	Borehole cor No visual or No radiologic Groundwater	mplete at 14.45r olfactory eviden cal readings about encountered at	ce of contamina ve background : 8.6m bgl as gro	recorded.			
Scal	e 1:12	25		es: Al nual i				etres. Lo	ogs sh	nould be read	n accordance	e with the prov	rided Key. Des	scriptions are base	ed on visu	al and	

		Boring F	Progress					Water	Strikes		
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								8.60			
	Chis	elling		Water	Added						
From	То	Hours	Tool	From	То	General Ren	narks				
							nplete at 14.45n				
								ce of contamina			
								ve background r			
								8.6m bgl as gro		b . 1	
						Hole installed	upon completion	on. Kesponse zo	one 8.0 to 14.0m	bgı.	
Coole	1:125	Notes: All di	mensions in m	etres. Loas sl	nould be read	in accordance	with the prov	rided Kev. Des	criptions are b	ased on visual	and

## Hole No. **BH105 BOREHOLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Client Date 09-07-14 70004430 Harrow Estates Plc 10-07-14 Co-Ordinates (NGR) Method/Plant Used Logged By Contractor / Driller Ground Level (m AOD) E 389412.570 N 382235.640 87.020 Geo Site Surveys Ltd Dando 2000 S McGeever

SAI	MPLE	S & TE	STS	_	_			Depth				STRAT	IA				Inst Bac
Depth	Туре	Test Result	(DIM)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				I	Description			Legend	•	m
							86.71 86.57	0.31		DE GROUND:			ala laure en en e	No. amazo de Unione		GMG GDU	M
									CLA	ı locallly stiff g .Y. (GLACIAL	reyish brown DEPOSITS)	mottled reddis	sn brown sligh	tly gravelly sandy			
1.20-1.65 1.65-1.75	U100 D					\$	84.62	(1.95) 2.40	Firm is fir	locally stiff re	ddish brown	slightly sandy I rounded of va		y CLAY. Gravel es. (GLACIAL	°	GDU	
2.40	SPT	3,3,4 5,4,5 N=18(S)				÷		(1.20)		,	ange fine and	I medium SAN	ID. (GLACIAL	DEPOSITS)		GDU	
2.40-2.85 3.00	B SPT	2,3,2 2,3,4 N=11(S)					83.42 83.02		\ med	lium subangul	ightly sandy ar to rounde	slightly gravelly	y CLAY. Grave nologies. (GLA	el is fine and CIAL	_o	GDU	
3.00-3.45 3.75 4.00-4.45 4.75 5.00	B D U100 D SPT	1,1,2						malmanadı		POSITS) I light brown s	lightly sandy	CLAY. (GLAC	IAL DEPOSIT	S)	× × × × × × × × × × × × × × × × × × ×		
5.00 5.50	D SPT	1,2,3 N=8(S) 1,1,1 1,2,3 N=7(S)						(5.00)							X X X X X X X X X X X X X X X X X X X	GDU	
7.50 8.00	D SPT	1,1,1 2,1,2					78.02	9.00	8.00	m bgl; becom	ning sandy				× × × × × × × × × × × × × × × × × × ×		
9.00	D	N=6(S)				<b>1</b> <u>1</u>	77.52	-	Ligh	t brown slightl	y silty CLAY	(GLACIAL DE	EPOSITS)		<u> </u>	GDU	
9.50-9.95 9.60-10.00	U100 B					_ <b>2</b>	76.72	10.30				CIAL DEPOSIT			× ×	GDU	
10.50 11.00	D SPT	1,2,2				Ŧ		(2.30)	FIRM	i light brown v	ery siity CLA	Y. (GLACIAL L	DEPOSITS)		× × ×	GDU	
12.00	D	1,3,2 N=8(S)					74.42	12.60							× ×	320	
12.50 - 12.50-12.95 13.50 14.00	SPT B D	1,2,1 2,2,2 N=7(S)						(1.85)	Loos	se brown fine	and medium	SAND. (GLAC	CIAL DEPOSIT	S)		GDU	
14.00	SPT	1,2,1 1,2,2 N=6(S)					72.57	14.45	Bore	ehole terminat	ed at 14.45m	ı bgl					<u> </u>
-																	
				Borir	ng Pr	ogres							Water	Strikes			
Date		Time	[	Depth		Casi	ng Dpt	Dia. (n	nm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Ca	sing
													2.30 10.50	20	9.60		
		Chis	 elling				-	V	Vater	Added							
From		То	_	Hours		Т	ool	Fron		То	No visual or No radiologi Groundwate	mplete at 14.45r olfactory eviden cal readings abo r encountered at	ice of hydrocarbo ive background i t 9.5m bgl.	on contamination obsecorded.		1	
Scal	e 1:12	.5	Not				ns in me	etres. Lo	ogs sh	ould be read i	n accordanc	e with the prov	vided Key. Des	criptions are base	d on visu	al and	

Ϋ́			Poring F	Progress					\M/ater	Strikes		
ΞĻ			Donnig r	logicss					vvalei	Suikes	ı	1
	Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
3									2.30			
2									10.50	20	9.60	
3												
3												
51		Chise	L elling		Water	Added	1					
\$1	From	То	Hours	Tool	From	То	General Ren	narks				
ŞΓ								plete at 14.45m				
1								olfactory evidence			observed.	
źΙ								al readings abovencountered at		ecoraea.		
								upon completio		ne from 9m to 1	4m bgl.	
٥٢	Caala	4.405	Notes: All dir	mensions in m	etres Logs st	ould be read	in accordance	with the provi	ded Key Desi	criptions are b	ased on visua	l and

## Hole No. **BOREHOLE LOG BH106** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 **Project** Woodford Aerodrome 1 of 1 Fax: Job No Client Date 03-07-14 70004430 Harrow Estates Plc 04-07-14 Contractor / Driller Method/Plant Used Logged By Co-Ordinates (NGR) Ground Level (m AOD) F 389677 940 Geo Site Surveys Ltd Dando 2000 J Watson 82.220 N 381326.530 Install **SAMPLES & TESTS STRATA** Depth HSV (kN/m2) P.Pen (kN/m2) PID (ppmV) Dia. Elev. Test Depth Туре Description Legend Geology 50 (mAOD) (Thick Result mm ness) MADE GROUND: ASPHALT 82.02 0.20 81.72 0.50 MADE GROUND: Sandy fine and medium sub angular GRAVEL of ash ES 0.50-0.60 GDU 81.12 1.10 clinker and limestone with pockets soft clay 1.20 SPT Brown silty fine SAND. (GLACIAL DEPOSITS) 1,1,1 1,3,3 40 Soft locally firm low strength light brown sandy slightly gravelly CLAY. Gravel is fine and medium angular to subrounded of various lithologies. N=8(S) GDU (1.90) F1.20-1.65 30 D D 0\_ (GLACIAL DEPOSITS) 1.75 2.00 50 2.00 - 2.50 m bgl; soft low strength SPT 1,2,1 0,1,0 N=2(S) GDU 86 2.50 m bgl; firm medium strength Stiff high strength reddish brown slightly sandy slightly gravelly CLAY. GDU E2.00-2.45 D D 78.22 4.00 Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS) 2.75 3.00 GDU 2,3,3 2,3,2 N=10(S) SPT 4.70 GDU Greyish brown gravelly medium and coarse SAND. Gravel is fine and 0. 56 GDU medium occasionally coarse rounded and subrounded of various ithologies. (GLACIAL DEPOSITS) 76.92 5.30 3.00-3.45 3.05-3.50 4.00-4.45 D Stiff dark brown sandy CLAY. (GLACIAL DEPOSITS) U100 54 blows 4.75 5.00-5.45 Greyish brown medium and coarse SAND and GRAVEL. Gravel is fine to U100 63 blows coarse rounded and subrounded of various lithologies. (GLACIAL GDU E(2.70) 5.45-5.50 6.50 DEPOSITS) SPT Stiff medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. N=10(S) 6.50-6.95 D (GLACIAL DEPOSITS) GDU Medium dense brown silty fine SAND. (GLACIAL DEPOSITS) WI SE 3,4,6 10,16,18 N=50/ E8.00 SPT 73.16 Stiff reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded of various lithologies. (GLACIAL DEPOSITS) Very dense reddish brown fine SAND. (WEATHERED WILMSLOW 0.235(S) 8.00-8.39 SANDSTONE FORMATION) D D SPT Borehole refused on competent strata at 9.06m bgl 9.00 25,100 N=100/ 0.04(S) WSPETEMPLATE1.03.GDT VERSION.GPJ WSP BH LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE

				E L								
		Boring F	Progress					Water	Strikes			
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casin	ng
02-07-14 03-07-14	00.00 00.00	4.00 9.06		150				3.80	20	3.80	3.00	)
	Chis	elling		Water	Added							
From	То	Hours	Tool	From	То	General Ren						
8	9.2	01:00	Cross chisel			No visual or o No radiologic Groundwater	al readings abo encountered at	bgl. ce of contaminative background r : 3.8m bgl as gro on. Response zo	ecorded. undwater.	ogl.		
		Notes: All di	moneione in m	otroe Logo ol	ould be read	in accordance	with the prov	ided Key Dee	orintiana ara h	acad on vieus	l and	

Scale 1:125

8

<b>WSP</b>		BOREHOLE LC	)G	Hole No. BH107
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome		Sheet 1 of 1
Job No 70004430	Client	Harrow Estates Plc		03-07-14 04-07-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
Geo Site Surveys Ltd	Dando 2000	J Watson / S McGeever	E 389383.510 N 381633.320	89.350

SAI	MPLE	ES & TE				-		D-: ". 1				STRAT	Α		1		Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Di 5 m
0.30-0.40 0.50-0.60	ES ES SPT	1,1,2 2,2,3	0				89.25 89.06 88.85 88.05	₹ 0.10/ ₹ 0.29/ ₹ 0.50	MAI MAI sub	DE GROUND: DE GROUND: rounded GRA	VEL of ash an	with 8mm dia d black sandy d clinker.	fine and med	ium angular to		CONC CONC MG GDU	
1.20-1.65 1.40-1.50 1.75 2.00-2.45 2.50 3.20	D ES D U100 D SPT	30 blows No recovery 1,1,2 3,3,4 N=12(S)		60 70 62 80				(4.30)	ang Firm Gra	ular to subang n medium stre	ular of various ngth reddish b medium angu	lithologies (Crown slightly	GLACIAL DEP	gravelly CLAY.		GDU	
3.75 4.00-4.45 5.00 5.00-5.45 5.75	D U100 SPT D D	2,2,3 2,3,4 N=12(S)					83.75	(2.50)	Firm	n reddish brow	n locally silty (	CLAY (GLAC	IAL DEPOSITS	S).	X	GDU	
6.50-7.00 6.50-6.95 7.50 8.00	B U100 D SPT	2,3,3 2,3,2				<u>‡</u>		(1.30)	Med	lium dense ora	angish brown	SAND (GLAC	IAL DEPOSIT	S).	× ×	GDU	
8.00-8.45 8.00-8.45 9.00 9.50-9.95	D B D SPT	N=10(S) 2,1,2 3,2,3 N=10(S)					79.95	9.40		lium dense ora POSITS).	angish brown	slightly clayey	slightly silty S	AND (GLACIAL		GDU	
- 10.50 11.00 - 11.00-11.45	D SPT D	3,3,3 3,3,3 N=12(S)						12.45	Por	ahala tarminat	od at 12 45m	hal				-	Z
11.00-11.45 12.00 12.00-12.45	B SPT D	2,3,3 2,3,4 N=12(S)							BOR	enoie terminat	ed at 12.45m	ogi					
-																	
				Bori	ng Pr	rogres	ss	<u> </u>					Water	Strikes			
Date		Time	]	Depth			ng Dpt	Dia. (m	nm)	Water Dpt	Date	Time	Strike 8.50	Minutes	Standing	Ca	asin
From	e 1:12	То		Hours			ool	Fron	n	Added To	No visual or o No radiologica Groundwater Dual installati	plete at 12.45n Ifactory evidendal readings abountered at encountered at on upon completes 1.0 to 4.0m	ce of contaminal ve background r 8.50m bgl as gr etion to target de	ecorded. oundwater. ep groundwater an			

								147.4	01.11	•	•
		Boring I	Progress					water	Strikes		
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								8.50			
	Chise	elling		Water	Added						
From	То	Hours	Tool	From	То	General Rem	narks	•			
2							plete at 12.45m				
							olfactory evidence				
:[							al readings abovencountered at				
									ep groundwater	and around as	9
						Response zo	nes 1 0 to 4 0m	and 7.0 to 12.0	m hal	ana grouna ga	<b>o</b> .

#### Hole No. **BOREHOLE LOG BH108** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 07-07-14 70004430 Harrow Estates Plc 08-07-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389541.340 N 381810.180 Dando 2000 J Watson / S McGeever 85.250 Geo Site Surveys Ltd

SAI	MPLE	S & TE	STS									STRAT	A				Ins Bad
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				С	escription			Legend	Geology	/ 5 m
			0	_	=		85.15	-ness) (£ 0.10/	МАГ	DE GROUND:	ASPHALT					TARMAC	
0.20-0.40	ES		"				85.05	0.20		DE GROUND:		<u> </u>			//XX	CONC	
_ 1.00-1.20	ES		0			ϫ	84.35 83.85	<b>⊢</b> I	MAE	DE GROUND:	Sandy claye	fine to coarse		sandstone,		PEAT	24
	U100	13 blows				_	00.00	1.40	\ <u> </u>	,		ith occasional			<u> </u>		Ø
1.75 2.00	D SPT	101						₽ I		: reddish browi POSITS)	n slightly clay	ey pseudofibro	ous PEAT. (SU	JPERFICIAL	/  <u>*</u>		
2.00	SPI	1,0,1 2,2,2						(1.90)			blue silty CLA	Y. (GLACIAL	DEPOSITS)		7 <u>× ×</u>	GDU	
2.00-2.45	D	N=7(S)					81 95	3.30				(			<u>×</u> _×		
2.75	D						000	E 0.00	Med	lium dense fin	e to coarse S	AND and fine	to coarse sub	angular to	0.0.0.0		闷
3.00	SPT	1,1,2 1,3,4					00.05	(1.10)	rour	nded GRAVEL	(GLACIAL [	DEPOSITS)			0000	GDU	
3.00-3.50	В	N=10(S)					80.85	4.40	Red	ldish brown sli	ahtly gravelly	CLAY. Gravel	is fine and me	edium	× ×	0011	2
3.05-3.45	D						80.15	5.10	subr	rounded. (GLA	CIAL DEPO	SITS)			X X	GDU	KOI
4.00	SPT	3,2,3 3,4,4						E					nses of orang	e brown fine an			
4.75	D	N=14(S)				2		F 1	med	lium sand. (Gl	LACIAL DEP	JSI15)			<u>*</u> ×		
	U100	36 blows				<b>T</b>									××		
-		No Recovery						F							× ×		
5.75 6.50	D SPT	1,1,2						(4.50)							<u> </u>	GDU	
-	J1 1	1,2,2						F							×-×-	1	
6.50-6.95	D	N=7(S)						Ē							× ×		
7.50 8.00	D SPT	2,1,1						F							× _×		
6.00	SF I	1,1,2					75.65	9.60							×_ ×		
8.00-8.45	D	N=5(S)						E		and very stiff POSITS)	dark brown C	LAY with occa	isional sand b	ands. (GLACIA			
9.00	D SPT	3,3,4						Ē		03113)							
9.50	SI 1	5,3,5						F								1	
9.50-9.95	D	N=17(S)						(3.90)								GDU	
10.50 11.00	D SPT	4,4,5						Ē I									
11.00	01 1	6,16,21														-	
11.00-11.45 12.00	D	N=48(S)						F									
12.00 12.50	D SPT	4,5,5					71.75	13.50	Bore	ehole terminat	od at 13 5m k	nal .					
-		6,8,9 N=28(S)						Ē	DOIG	chole terminat	eu at 13.5iii i	)gi					
12.50-12.95	D	14-20(3)						Ē									
12.50-12.95 13.00	D							F									
-								F									
								Ē									
-								F									
								Ē I									
-								E									
								ŧ l									
-																	
-			<u>L</u> _			<u> </u>		<u> </u>									
				Borir	ng Pr	ogres	ss						Water	Strikes			
Date	$\perp$	Time	1	Depth		Casi	ng Dpt	Dia. (m	nm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Ca	asing
													1.20				
													6.50				
		Chis	elling					V	Vater	Added							
From	+	То	I	Hours	$\dashv$	Т	ool	Fron	n	То	General Re		hal Noview-1	or olfooton: oui-l-	oo of cont-	nination	
											observed. No	radiological rea	idings above ba	or olfactory evider ckground recorde	d. Groundwa	ater	
													eepage and at 6 zone 10.5 to 13.	6.5m bgl as groun 5m bal.	dwater. Hole	installed	i
											.,,						

		Boring F	Progress					Water	Strikes		
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								1.20			
								6.50			
	Chis	elling		Water	Added						
From	То	Hours	Tool	From	То	General Rem	narks		•		
						observed. No encountered a	radiological rea	dings above ba eepage and at 6	or olfactory evidence or or olfactory evidence or olf of the olf of the olf of the olf of the olf	ed. Groundwate	er

## Hole No. **BOREHOLE LOG BH109** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 01-07-14 70004430 Harrow Estates Plc 02-07-14 Logged By Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Ground Level (m AOD) E 389641.120 N 382034.510 Dando 2000 S McGeever 85.820 Geo Site Surveys Ltd

SA	MPLE	ES & TE	STS						STRATA			Install / Backfill
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)	Description	Legend	Geology	Dia. 50 mm
0.20	ES						85.73/ 84.82	0.09/	MADE GROUND: Dark brown mottled black gravelly SAND. Gravel is fine		TS GMG	
E0.80 E1.20 E1.20-1.65	ES ES U100	12 blows 100% Recovery						(1.90)	and medium of ash, coal, slag and clinker (MADE GROUND)  Firm to stiff reddish brown mottled light grey slightly sandy gravelly CLAY. (GLACIAL DEPOSITS)	× ×	GDU	
1.65-1.70 2.00	D SPT	3,3,3 2,3,3				4	82.92	2.90	Loose light brown fine SAND. (GLACIAL DEPOSITS)			
2.75 3.00	D SPT	N=11(S) 1,0,1 1,2,2 N=6(S)				1		(2.70)			GDU	
3.75 4.00	D SPT	1,1,2 1,2,2 N=7(S)				¥ 2	80.22		Firm dark brown, slightly sandy, gravelly CLAY. Gravel is fine to coarse	0	GDU	
4.75 5.00-5.45	D U100	29 blows 0%				Ā	79.52	6.30			GDU	
6.00 6.50-6.95	D U100	Recovery 38 blows 70% Recovery										
7.50 8.50	D SPT	2,2,3 2,3,4 N=12(S)						(4.20)			GDU	
9.50-9.95	U100	34 blows 70% Recovery					75.32	10.50	Coff to fore Eight house OLANY (CLACIAL DEDOCATO)			
E10.50 E1.00 E1.00	D SPT	2,1,1 2,2,2 N=7(S)						(2.30)	Soft to firm light brown CLAY (GLACIAL DEPOSITS)		GDU	
12.00 2 12.50	D SPT	2,6,6 9,9,10				<b>2</b> <u>−</u>	73.02	12.80	Light brown slightly sandy slightly gravelly CLAY. Gravel is coarse of			
13.00-13.50	В	N=34(S)					71.82	(1.20) 14.00	various lithologies. (GLACIAL DEPOSITS)		GDU	
-100914 - OF 10 DA IE VEKSION.GFJ WSFP EINF	SPT	3,2,1 3,3,3 N=10(C)					71.02	14.00	Borehole terminated at 14m bgl			

3DT	11.00	D SPT D	2,1,1 2,2,2 N=7(S)			<u>2</u>	72.03	(2.30)	Soft	to firm light b	rown CLAY (G	SLACIAL DEP	OSITS)			GDU	
LATE1.03	12.50 13.00-13.50	SPT	2,6,6 9,9,10 N=34(S)			<u>*</u>		(1.20)			y sandy slight . (GLACIAL D		AY. Gravel is o	coarse of		GDU	
-100914 - UP T	13.00-13.50 	SPT	3,2,1 3,3,3 N=10(C)				71.02		Bore	ehole terminat	ed at 14m bgl						
INED					<u> </u>	rogres							Water	Strikes			
OMB	Date		Time	Dept	h	Casir	ng Dpt	Dia. (n	nm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Ca	sing
RD LOGS - C													5.20 12.80	20 20	3.80 6.10		
언				elling						Added	0						
08 WSP BH LOG WOODFORD LOGS - COMBINED	From		То	Hour			ool	Fron		То	No visual or o No radiologica Groundwater Hole installed Response zo	nplete at 14.00m olfactory evidence al readings above encountered at upon completione 8.00 to 14.00 pe 8.00 to 14.00	ce of contaminative background re 5.2m bgl and 12 on.	ecorded. .80m bgl as gro			
08 WSF	Sca	le 1:12	25	Notes: / manual	All din identi	nensio ificatio	ns in m n.	etres. Lo	gs sh	nould be read	in accordance	with the provi	ided Key. Desc	criptions are b	ased on visu	al and	

## Hole No. **BH110 BOREHOLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Client Date 30-06-14 70004430 Harrow Estates Plc 01-07-14 Co-Ordinates (NGR) Method/Plant Used Logged By Contractor / Driller Ground Level (m AOD) E 389691.170 N 382286.990 87.330 Geo Site Surveys Ltd Dando 2000 S McGeever

<b>υ</b> Λ	IVIFLE	ES & TE		_				Depth				STRAT	^				Inst
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	'			D	escription			Legend	Geology	Di 5 m
0.20	ES						86.98			ss over brown PSOIL)	slightly claye	, sightly grave	elly, fine to me	edium SAND	<u> </u>	TS	V
- 1.20 -	SPT	1,2,2 3,3,4 N=12(S)						(2.65)	Med	lium dense lig rounded and r	ht brown grav ounded of var	elly fine SANE ious Ithologies	). Gravel is fin s. (GLACIAL D	e and medium DEPOSITS)		GDU	\$25°C
1.20-1.65 2.00 -	B SPT	3,3,3 2,3,4					84.33	3.00									
2.00-2.45 3.00	B SPT	N=12(S) 2,3,2 2,3,3						(1.10) 4.10			<i>3, 3, 0</i>	elly CLAY. (GI		,		GDU	222
3.10 3.75 4.00-4.45 4.75	ES D U100 D	N=10(S)						(2.10)	Ligh	t brown slight	ly sandy, silty,	CLAY (GLAC	IAL DEPOSII	S)		GDU	
5.00	SPT	1,0,1 0,2,2 N=5(S)					81.13	6.20	Stiff	dark brown s	lightly silty CL	AY. (GLACIAL	. DEPOSITS)		× ×		ı
5.00-5.45 6.50-6.95	B U100	0%				1									× × ×		
7.50 - 8.00	D SPT	2,3,3 3,4,5 N=15(S)						(4.20)							× × ×	GDU	
9.00 9.50	D U100	N=15(S) 95%													× × ×		
9.95-10.00	D							10.40 10.70	0			L DEPOSITS			<u>×</u> <u>×</u>	GDU	
11.00	6,8,9 N=28(S)					₹			coai			elllow gravelly, nded of various					
12.00 12.50	D SPT	2,3,3 5,3,4						(3.30)								GDU	
- 13.50 - 14.00	D	N=15(S)					73.33	14.00									
14.00 14.00 - -	SPT D	3,2,3 4,4,5 N=16(C)							Bore	ehole terminat	ed at 14m bg						
-																	
				Borir	ng Pr	ogres	s	<u> </u>	<u> </u>				Water	Strikes			
Date	Date Time Depth						ng Dpt	Dia. (n	nm)	Water Dpt	Date	Time	Strike 11.50	Minutes 10	Standing 7.50	Ca	sing
		Chis	elling					V	Vater	Added							
From		То		Hours		To	ool	Fror		То	No visual or on the No radiologic Groundwater	narks  plete at 14.00m  lfactory evidence  al readings above  encountered at  upon completic	ce of contaminative background r 11.50m bgl as g	ecorded.		'	

		Boring F	Progress					Water	Strikes		
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Casing
								11.50	10	7.50	
	Chise	elling		Water	Added						
From	То	Hours	Tool	From	То	General Ren	narks				
							nplete at 14.00m				
							olfactory evidend				
							al readings abov				
							encountered at		roundwater.		
							l upon completio				
	<u> </u>	Notes: All dir	moneione in m	otroe Loge ek	ould be read		ne 9.00 to 14.00		crintions are h	ased on visual	and
Scale	1:125	monuel iden		elles. Logs si	iouiu be reau	iii accordance	with the provi	ded Rey. Des	criptions are b	aseu on visuai	anu

## Hole No. **BOREHOLE LOG BH111** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Client Date 11-07-14 70004430 Harrow Estates Plc 11-07-14 Co-Ordinates (NGR) Logged By Contractor / Driller Method/Plant Used Ground Level (m AOD) E 390050.210 N 382505.270 Geo Site Surveys Ltd Dando 2000 S McGeever 87.330

SA	MPLE	ES & TE	STS						STRATA			Install / Backfill
Depth	Туре	Test Result	PID (bpmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)	Description	Legend	Geology	Dia. 50 mm
							87.18/		TOPSOIL: Brown clayey SAND with rootlets.	111.11	TS	
								(1.15)	Stiff light brownish grey CLAY.		GDU	
1.00-1.45	U100						86.03	1.30	Lance Palethanne Car CAND			
1.45-1.55	D								Loose light brown fine SAND.			
2.00	SPT	1,2,2 2,1,1						h				
2.00-2.45 23.00	B SPT	N=6(S) 1,2,1						ıılııı				
Ē.		1,1,1 N=4(S)						(5.80)			GDU	
3.00-3.45 E4.00	B SPT	1,1,1						(0.00)			OBO	
4.45-5.00	В	1,2,2 N=6(S)				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		uduuu				
5.00	SPT	1,2,2 1,2,2										
6.50	SPT	N=7(S) 1,1,2 1,2,3					80.23	7.10				
		N=8(S)							Stiff reddish brown slightly gravelly slightly sandy CLAY with occasional silty		GDU	
7.50	D					lacksquare	79.43	7.90			ODO	
8.00	SPT	(S)				_			Light brown fine SAND.			
8.50-9.00	В											
F												
9.50	SPT	1,2,2										
F		1,2,2 1,2,3						(4.10)			GDU	
E 10.50-11.00	В	N=8(S)							10.50 - 11.50 m bgl; band of gravel.			
t ⊨		242							10.50 - 11.50 III bgi, band of graver.			
11.00	SPT	3,4,2 2,1,2										
	В	N=7(S)					75.33	12.00				
11.50-12.00 12.00	SPT	2,3,2							Borehole terminated at 12m bgl			
3 F		2,3,2 1,3,3										
涯		N=9(S)										
3												
ŧ												
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<u>'</u> E												
<u> </u>												
								<u> </u>				
	•	•	•	Bori	ng Pr	ogres	SS		Water Strikes	•		

10.50-11.00	В						Ē I	10.5	50 - 11.50 m b	gl; band of gra	avel.					ľŒ
10.50-11.00 11.00	SPT	3,4,2 2,1,2				== 00										
11.50-12.00	В	N=7(S)				75.33	12.00		ahole terminat	ted at 12m bgl						
71.50-12.00 12.00 - - -	SPT	2,3,2 1,3,3 N=9(S)					ևուսանարակարակարակարաներություն	Вой	and terminal	ied at 12111 ogi						
				Boring	Progres	SS						Water	Strikes			
Date		Time	С	epth	Casi	ng Dpt	Dia. (n	nm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Ca	asin
												8.00	20	5.20		
		Chis	elling				V	Vater	Added							
From		То	F	lours	Т	ool	Fron	n	То	No visual or o No radiologica Groundwater Hole installed	narks nplete at 12.00m olfactory evidenc al readings abov encountered at upon completic ne 9 - 12 m bgl.	ce of contaminative background r 9.50m bgl as gr	ecorded.			
Scal	e 1:12	25			limension tification		etres. Lo	ogs sh	nould be read	in accordance	with the provi	ded Key. Des	criptions are b	ased on visu	al and	

## Hole No. **BOREHOLE LOG BH112** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 11-07-14 70004430 Harrow Estates Plc 14-07-14 Co-Ordinates (NGR) Logged By Contractor / Driller Method/Plant Used Ground Level (m AOD) E 389932.030 N 382102.010 Dando 2000 S McGeever 85.060 Geo Site Surveys Ltd

SA	MPLE	S & TE	STS									STRAT	A				Ins Bad
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Di 5 m
							84.76	-ness) = 0.30		wn sandy CLA					11/2.1.1/2   T	TS	
1.00-1.45	U100						00.50	(1.20)	Stiff	flight brown od dium, subround	casionaly gre ded and round	y slightly grav led. (GLACIAI	ely CLAY. Gra _ DEPOSITS)	ivel is fine and		GDU	140
1.45-1.50	D						83.56	1.50	Loos	se fine light br	own SAND (G	SLACIAL DEP	OSITS)				
2.00	SPT	1,1,2 1,2,1						Ē									S
2.50-3.00	В	N=6(S)						E									SHOROHOUS
3.00	SPT	1,1,1						E(4.80)								GDU	250
4.00	SPT	N=6(S) 1,1,1 1,2,2						[4.00)								GDO	
4.50-5.00	В	N=6(S)						E									
5.00	SPT	1,2,1 1,2,2						Ē									
6.30	D	N=6(S)					78.76	6.30	Firm	n light brown, g	ravelly CLAY	, with occasion	nal pockets of	brown medium			
5.50-6.95	U100							E	sand	d. (GLACIAL E	DEPOSITS)		•				
7.50	D							(3.00)								GDU	
3.00	SPT	2,3,4 4,5,5						E									
		N=18(S)				<b>1</b>	75.76	9.30							<u> </u>		
9.50	SPT	1,2,2 1,1,1				<u>=</u>		Ē		se becoming r POSITS)	nedium dense	e light brownis	h red fine SAN	ND (GLACIAL			
9.50-9.95	В	N=5(S)						(2.70)								GDU	
11.00	SPT	2,3,3															
12.00	SPT	3,4,4 N=14(S) 3,3,5					73.06	12.00		ehole terminat							
Date		4,4,4 N=17(S)															
Data		Time			ng Pr	ogres		Dio /n	nm)	Water Det	Data	Timo		Strikes	Standing	C.	asing
Date		Time	<del>  '</del>	Depth	$\dashv$	Casii	ng Dpt	Dia. (n	1111)	Water Dpt	Date	Time	Strike 9.50	Minutes	Standing	Ca	asin
		Chis	elling	ı				V	Vater	Added							
From		То		Hours		Т	ool	Fror		То	No visual or on No radiologich Groundwater Hole installed	narks helete at 12.00m	ce of contaminative background r 9.50m bgl as gr on.	ecorded.			
Sca	le 1:12	25	Not			ensic	ns in me	etres. Lo	oas sh	nould be read i	n accordance	with the provi	ided Kev Des	criptions are bas	ed on visu	al and	

E				E								
		Boring F	Progress					Water	Strikes			
Date	Time	Depth	Casing Dpt	Dia. (mm)	Water Dpt	Date	Time	Strike	Minutes	Standing	Ca	sing
								9.50				
	Chis	elling	•	Wate	r Added							
From	То	Hours	Tool	From	То	General Ren	narks					
							nplete at 12.00m					
						No visual or o	olfactory evidend	ce of contaminal	tion observed.			
							al readings above encountered at					
							l upon completic		ouriuwater.			
						Response zo	ne 7 to 12m bgl.					

			NS	P							TRIAL F	PIT LO	G		Hole No	ST1		
		150-182 M5 phone:	0 3SP	•	100		Proje	ect			Woodford	Aerodrome	е		Sheet	1 of	1	
,	Job No	7000	)443	30			Clier	nt			Harrow E	states Plc			Date	21-08- 21-08-		
(	Contract Elect	or / Dr		wes		Meti	hod/l		nt Use		Logged By  David [	Duncan	E	ates (NGR) 389429.000 382446.000	Gro	ound Level	(m AO	D)
Ī	SAM	PLES	& TE	ESTS	3							STR	ATA		<u>'</u>			Install /
	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Ele (mA	ev. .OD)	Depth (Thick -ness)	ו		Desc	ription			Legend	Geology	
-									- 0.15 - - -(0.45)	MADE G 0.15 - 0.3	ROUND: Concrete ROUND: Orangish 30 m bgl Suspected	brown sandy (					MG MG	-
-	0.80-1.00 - 1.00-1.10 1.10-1.80	1.10 ES 1 1.80 ES 0							(1.30)	MADE G 0.90 - 1.1	ROUND: Greyish t 10 m bgl Pitch-like d clay. Very mild ta	e substance an		al encountered	in the		MG	
	1.90-2.10	.10 ES 0							2.10 - - - -	MADE G	ROUND: Red Grav	velly SAND (Pi	pe bed)				MG	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14		90-2.10 ES 0									Shoring/Support:			Water S	Strikes			
D LOGS									-	3.00m	Snoring/Support:	Date	Time	Strike	Minutes	Standing	Ren	marks
OG STANDARD WOODFOR	D	8 A D C						<b>1</b> 2 ↓	Orientat	2.00m ion	Stability:	Contractors er	usly dug by Ele acountered con	ctricity Northwest iamination in tren	related to a di	version of an H ngineer attend	IV cable.	
VSP TP L(	80	ale 1:3	7 5		Note	es: Al	II dim	ens		north	gs should be read	PID Reading a	at 0.8m-1.0mbg at 1.0m-1.1mbg with the provi	= 0.8ppm	riptions are b	ased on visu	al and	
> 8	50	aie 1:3	r .o				dentif						p	-, = 230.				

			WS	SP						TRIAL F	PIT LO	G		Hole No.	TP10	)1	
	Te	150-182 M5 lephone:	0 3SP		400	-	Project			Woodford	Aerodrome	e		Sheet	1 of	1	
	Job No	700		30			Client	ınt Use	d	Harrow E	states Plc	Co-Ordina	ates (NGR)	Date	30-06- 30-06- und Level	14	)D)
		C Plan		e Lto		WICE		CB 3C		J Wa	atson	E	389484.050 382850.130		91.2	`	,6)
	SAI	//PLES	& TI	ESTS	<u> </u>						STR	ATA					Install / Backfill
	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD	Depth (Thick -ness)			Desc	ription			Legend	Geology	,
	- 0.20-0.30 - -	ES	0				91.19	(0.52)	MADE G GRAVEL	ROUND: ASPHAI ROUND: Brown sa with frequent cobl	andy cobbly fine	e and coarse ne.	subangular and	d subbrounded		MG MG	
	_ _0.60-0.70 _	ES	0				90.67	T	MADE G	ROUND: Brown cl	ayey silty slight	ly gravelly fin	e SAND. Grave	el is fine	XX	MG	
	0.80-0.90 0.90-1.00 - - -	0-1.00 D 97					00.00	(0.70)	Stiff redd and med	ish brown mottled ium angular to roui	grey slightly sa	ndy slightly g	ravelly CLAY. GLACIAL DEP	Gravel is fine OSITS)		GDU	
	1.40-1.60 -	В					89.87 89.67	-(0.20)		brown clayey fine	SAND (GLACIA	AL DEPOSIT	S).			GDU	
	1.60-1.80	D		63		1	89.47	-(0.20)	Stiff high Gravel is DESPOS	strength reddish b	rown mottled g angular to round	rey slightly sa ded of various	andy slightly grass lithologies. (C	avelly CLAY. GLACIAL		GDU	
TE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14	- - - - - - - - -						88.37	(1.10)	J	orown medium and		(GLACIAL D	EPOSITS)			GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1			3A				B 1	Width 1 Orientat	.00m	Shoring/Support: None Stability:	No radiologica	ete at 2.90m bo factory evidence I readings abovencountered as	ce of contamination of	Minutes  on observed.	Standing		marks epage
08 WSP	(	Scale 1:	25		Note	es: A nual i	II dimens dentifica	sions in tion.	metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	riptions are ba	sed on visu	ual and	

			V	NS	P						TRIAL F	PIT LO	G		Hole No.	TP10	02	
			50-182 M50 hone: 0	3SP	-	100	I	Projec	:t		Woodford	Aerodrome	e		Sheet	1 of	1	
				ax.														
	Job I		7000	)443	30			Client			Harrow E	states Plc			Date	30-06- 30-06-		
	Cont	racto	r / Dri	iller			Meth	nod/Pl	ant Us	sed	Logged By		Co-Ordin	ates (NGR)	Grou	ınd Level	(m AC	D)
	Н	1 & C	Plant	t Hire	e Ltd				JCB 30	CX	J Wa	atson	E N	389556.560 382881.710		92.2	220	
	S	SAMP		_	_	_			Der	oth		STR	ATA					Install / Backfill
	De	pth	Туре	OIIA (ppmV	HSV (KN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOI	(Thick	c		Desc	ription			Legend	Geology	,
	-							92.1 92.0	-	MADE	GROUND: ASPHAL GROUND: Brown sa L of limestone.		e to coarse su	ıbangular to sub	brounded		MG MG	
	0.20-0	0.40	ES	0				91.8	-(0.20	) MADE (	GROUND: Reddish ken brick.	brown fine to co	oarse GRAV	EL and COBBLI	ES of whole		MG	
	-							91.7	77 0.4	MADE (	GROUND: Yellow m						MG	
	0.50-0		ES	0				91.6	55 0.	MADE (	GROUND: Dark gre	y and black sar	ndy fine and r	nedium GRAVE	L of ash and		MG	
	0.60-0	0.80	ES	0	28			91.4	(0.23 12 0.8	) MADE (	GROUND: Soft low dium of brick.	strength brown	sandy slightl	y gravelly CLAY	. Gravel is fine		MG	
	0.80-1	1.00	D						Ţ		strength dark brow	n very sandy C	LAY with roo	t matter. (RELIC	T TOPSOIL)	711 711		
	-				31			91.1	(0.30	10						71 1/2 1/1 1/2	SUPD	
	-	54							-	Firm loc	ally soft greenish greenish greenish greenish greenish	rey medium stre s lithologies. (G	ength sandy s	slightly gravelly (POSITS)	CLAY. Gravel	0		
	-								+									
	_	50																
	1.60-1	1 70	D						-							-0		
	-	1.70							}									
4					59				ļ., .,	.						-0		
1/12/1	_								(1.65	´	coming stiff high str	renath clav					GDU	
03.GDT 11/12/14	-				94				+	2.00 Be	conning sun night su	engur day.						
	2.20-2	2.40	D						ţ							0		
ATE1	-				111				-									
EMPL	-								-							<u> </u>		
SPET	-							00.4		7.5								
PJ W	-							89.4	7 2.		complete at 2.75m	bgl						2405
ON.G	=								-									
/ERSI	_																	
ATE \	_								-									
TOD	_								+									
- UP	_																	
00914	-								-									
ED-1	_								ł									
MBIN	-																	
00											T							
LOGS									Lengt		Shoring/Support:	Date	Time	Water S Strike	trikes Minutes	Standing	Rei	marks
ORD,	1	-		— 3						3.00m	None	Date	71110	Sunc		Canang	1 (6)	
OODF	1	-		— з А			-		Width		-							
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1	ח	D						 B 1		1.00m	Stability:	-						
NDAF								<b>」</b> ↓				General Rem						
3 STA				С					Orient		Stable		factory evidend	ce of contaminatio				
P LOC									de	grees from north		No radiological Groundwater r Hole backfilled	not encountere		oraea.			
VSP T		900	ale 1:2	95		Note	es: Al	l dimer	nsions i	n metres. Lo	ogs should be read				iptions are bas	sed on visu	ual and	
80		300	aic 1.2					dentific										

	<b> </b>	NS	P						TRIAL F	PIT LO	G			e No.	TP10	)3	
	50-182 M50 hone: 0	3SP	•	00	F	roject			Woodford	Aerodrom	e		She	eet	1 of	1	
ob No	7000		30		С	Client			Harrow E	states Plc			Da	te	30-06- 30-06-	14	
ontracto	or / Dr	iller			Meth	od/Pla	nt Used	d	Logged By		Co-Ordina	tes (NGR)		Grou	nd Level		DD)
H & C	Plan	t Hire	e Ltd			JC	СВ ЗСХ	(	J Wa	atson		389614.850 382875.890			90.7		ŕ
SAMF	PLES	& TE	STS							STF	RATA						Ins
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				Desc	cription				Legend	Geology	
						90.66	-ness) 0.09		ROUND: ASPHAL ROUND: Light gre		CONCRETE wi	th 9mm rebar			P 7 4 5	MG	25
30-0.40	ES	170				90.50	- 0.25 - -(0.30)		ROUND: Brown sa drocarbon odour.	andy cobbly fin	e to coarse GF	RAVEL of sand	dstone w	ith a		MG	2000
60-0.70	ES	6				90.20	, ,	PROBAB odour.	LE MADE GROUI	ND: Red brown	n fine SAND w	th a slight hyd	rocarbor	า		MG	M 0 0 0
30-0.90	ES	0	97			90.00		Stiff light	grey mottled orang Gravel is fine and	ge brown high gular of various	strength sandy	slightly grave	lly CLAY OSITS)	with			N. C.
00-1.20	D		90				(0.55)									GDU	
30-1.50 30-1.50	D ES		44			89.45	1.30		ium strength dark					,	0	GDU	
60-1.80	D		50			89.25		Firm redd fine angul	ravel is fine angul ish brown mediun ar ooccasionally r	n strength sligh	ntly sandy sligh	tly gravelly Cl	_AY. Gra	avel is		GDO	A CACA
00-1.00			51				-	(GLACÏAL	DEPOSITS)								K2525
			62				(1.10)									GDU	
							-										
50-2.60	D		88			88.15	2.60		high strength clay								
							-	Trial pit co	omplete at 2.6m b	ıgl							
							_										
							-										
							-										
							-										
						П		Т	01 1 12	ı							
							Length 3.	00m	Shoring/Support: None	Date	Time	Water S Strike	Strikes Minute	es	Standing	Re	maı
<b>—</b>		— 3 <u> </u>			<b>-&gt;</b>	Ŧ	Width	00m									
D					E	3 1	1.	00m	Stability:	General Rem							
		С						ees from	Stable	observed bety	lete at 2.6m bgl. ween 0.25 to 0.7 oundwater not en	5m bgl. No radio	logical rea	adings a	bove back		

			NS	SP						TRIAL F	PIT LO	G		Hole No.	TP10	)4	
	Tel	150-182 M5 ephone:	0 3SP		100	I	Project			Woodford	Aerodrome	e		Sheet	1 of	1	
	Job No	700	044	30		(	Client			Harrow E	states Plc			Date	30-06- 30-06-		
	Contrac H &	tor / Di C Plan		e Ltd		Meth	nod/Pla	nt Use		Logged By	eston	E	ates (NGR) 389715.840 382882.290	Gro	und Level 91.6		DD)
	SAM	1PLES	& TE	ESTS	3						STR	ATA					Install / Backfill
	Depth	Туре	PID (ppmV)	HSV (KN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD	Depth (Thick -ness)	1		Desc	ription			Legend	Geology	
							91.59	0.10		ROUND: ASPHAL			ODA)	F1		GMG	
	_						91.49		MADE G	ROUND: Light bro		lar medium to	coarse GRAV	EL	$\rightarrow \times \times$	GMG GMG	
	-0.35-0.50 -0.60-0.70 -0.70-0.80 	ES D	0				91.36	(1.47)	i	ROUND: Firm brow		ntly gravelly C	ELAY. Gravel is	fine of brick.		GMG	
LATE1.03.GDT 11/12/14		89.29								ROUND: Stiff brow			clay with many	motlets and		GMG	
-EMPI	2.40-2.55	D					89.14	2.55	rare wire	rope						GMG	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1	2.70-2.80 - - - - - 3.20-3.30	D	0				88.29	(0.85)	DEPOSI			ckets of brow	n fine sand. (G	LACIAL		GDU	
OGS - COMBINED -100914 - Ui	-							Length	I rial pit t	erminated at 3.4m  Shoring/Support:			Water S				
)RD L								3	3.00m	None	Date	Time	Strike	Minutes	Standing	Rer	marks
DARD WOODFO	D		— 3 A			<b>→</b>	<b>∓</b> B 1	Width 1	l.00m	Stability:	General Rema	arks					
P TP LOG STAN,			С	;			*		rees from north	Stable	Trial pit comple observed. No r encountered. H	ete at 3.40m bg radiological rea Hole backfilled	ll. No visual or olfa dings above back upon completion.	ground recorde	d. Groundwa	ater not	
08 WS	S	Scale 1:	25				l dimens dentifica		metres. Lo	gs should be read	in accordance v	with the provi	ded Key. Descr	iptions are ba	sed on visu	ual and	

			<b>NS</b>	P						TRIAL F	PIT LO	G		Hole No	TP1	05	
		50-182 M5 hone:	0 3SP	-	100		Project			Woodford	Aerodrome	e		Sheet	1 of	1	
Jol	o No	7000	0443	30			Client			Harrow E	states Plc			Date	30-06- 30-06-		
	ntracto			e Ltd		Met	hod/Pla J0	nt Use CB 3C		Logged By J Wa	atson	E	ates (NGR) 389726.240 382847.460	)	ound Leve 91.		D)
	SAMF	PLES	& TE	STS	<u></u>						STR	ATA					Install /
ı	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Desc	ription			Legend	Geology	
							91.24	0.10		ROUND: ASPHAI		e to coarse a	ngular to suba	ngular		TARMAC	
0.20	0-0.30	ES					91.14		GRAVEL	of limestone.  ROUND: Dark gre					-	MG	
Ī							90.88	(0.26) 0.46	clinker.	ROUND: Dark gre	y and black sar	idy fine and n	nedium GRAV	EL of ash and		MG	
-	0-0.60	ES		43			90.00	-	MADE G	ROUND: Firm medium (	dium strength d of brick ash clin	lark brown sa Iker vesicular	ndy slightly gr slag	avelly CLAY.			
	0-0.90	D		55				- - - - - - - -								MG	
WSPETEMPLATE1.03.GDT 11/12/14	0-2.60	D		53				- - - - - -	1.80 Wire	e rope							
N.GP.	0 2 00			46			88.44	2.90	Firm dor	c brown conducti	NV with root mo	ttor (DOSSID	LE DELICE T	ODEOIL )			
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1	0-3.00	ES					88.34 88.24	3.00	Firm redovarious li	c brown sandy CLA dish brown sandy s thologies. (GLACIA complete at 3.1m b	slightly gravelly AL DEPOSITS)	CLAY. Grave			3. S.	GDU	
- S5(								Length	ı	Shoring/Support:			Water	Strikes			
VOODFORD LC	<b> </b>		— 3 A			<b>&gt;</b>	· <b>T</b>	3 Width	.00m	None	Date	Time	Strike	Minutes	Standing	Rer	marks
ARD C							↑ B 1	1	.00m	Stability:	-						
SP TP LOG STAND,			С		Not	ae: A	II dimans	1	ees from north	Stable	observed. No encountered. I	ete at 3.1m bgl. radiological rea Hole backfilled u	dings above ba upon completior		ed. Groundwa	ater not	
80	Sca	ale 1:2	25				dentificat		menes. Lo	gs should be read	iii accordance	with the provi	ueu ney. Des	orphoris are b	aseu UII VISI	uai ai10	

				VS	P						TRIAL F	PIT LO	G		Hole No	TP10	06	
		150 Teleph	0-182 <sup>-</sup> M50 one: 0	3SP	-	00		Projec	t		Woodford	Aerodrom	e		Sheet	1 of	1	
	Job N		'000	)443	30			Client			Harrow E	states Plc			Date	01-07- 01-07-		
	Contra H	actor & C F			e Ltd		Met		ant Us JCB 30		Logged By	atson	E	ates (NGR) 389699.550 382740.990	Gro	ound Level		D)
	SA	AMPL	ES	& TE	STS	<del></del>						STR	ATA					Install /
	Dep	th	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOI	Dep (Thick			Desc	cription			Legend	Geology	
	_							90.4		9 MADE G	ROUND: ASPHAL					2 4 4	TARMAC	
	-							90.3		3	ROUND: Light gre		m and coarse	subangular Gl	RAVEL.	7 4 A	CONC	
	- - -								(0.50	MADE G broken a	ROUND: reddish bind whole brick.						MG	
	0.60-0.	70	ES	0			1											
	- 0.80-0. - - -	90	ES	0	30 64		<u>_</u>	89.7	(0.50	MADE G and med	ROUND: Soft low ium of brick and co	strength dark g bbbles of sands	rey sandy gra stone.	avelly CLAY. Gi	ravel is fine		MG	
1/12/14	- - 1.50-1.1 - 1.60-1. - - -		ES D		50 70 41			00.2	- - - - - - -	MADE G gravelly (	ROUND: Firm med CLAY. Gravel is fin	dium strength de and medium	lark greyish b angular to ro	orown slightly sa unded of variou	andy slightly us lithologies.		CMG	
WSPETEMPLATE1.03.GDT 11/12/14	- - - 2.50-2.	60	D		50 75			87.8 87.7			k brown amorphou	s clavev PEAT	. (PROBABL	E RELICT TOP	PSOIL)		SUPD	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1	- - - - - - - - -							87.6	2.9	Firm medium	dium strength brow angular to rounded complete at 2.9m b	n slightly sandy of various litho	y slightly grav	elly CLAY. Gra	vel is fine and		GDU	
- S90									Length		Shoring/Support:	Data	T:	Water S		Otendina	Dec	
AD WOODFORD L	D			— 3 <u>A</u>				   <del>   </del>  B 1	Width	3.00m 1.00m	None Stability:	Date	Time	Strike 0.80	Minutes	Standing	_	marks epage
TP LOG STANDA	C C							<u> </u>	Orienta	ation grees from north	Stable	observed. No	ete at 2.9m bgl radiological rea	. No visual or olfa adings above bac e backfilled upon	kground record			
08 WSP	Scale 1:25 Not mai							II dimer dentific		n metres. Lo	gs should be read	in accordance	with the provi	ided Key. Desc	riptions are ba	ased on visu	ual and	

			WS	SP						TRIAL F	PIT LO	G		Hole No.	TP10	07	
	Тє	150-182 M5 lephone:	0 3SP	, ,	100	F	Project			Woodford	Aerodrome	е		Sheet	1 of	1	
	Job No	700 etor / Di		30			Client nod/Pla	nt Use	d	Harrow E	states Plc		ates (NGR)	Date	01-07- 01-07- und Level	14	DD)
	Н&	C Plar	t Hir	e Lto	ı		J	CB 3C	×	J Wa	atson		389783.660 382741.560		91.	180	
	SAI	/PLES	& TI	_	_						STR	ATA		,		ı	Install / Backfill
	Depth	Туре	DIP (Vmdd)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	-ness)				ription			Legend	Geology	
	0.10-0.20	ES	0				91.11	-(0.23)	MADE G	ROUND: ASPHAL ROUND: Orange to of sandstone.		e to coarse a	ngular to subai	ngular		TARMAC MG	
	0.30-0.50 -	ES	150				90.68	-(0.20)	with a str	ROUND: Black sar ong hydrocarbon c	odour.	Ü	r GRAVEL of a	sh and clinker		MG	
	- 0.60-0.70 - - 0.90-1.00		0	90			96.65	-	MADE G	ROUND: Stiff high cobbles. Gravel is	strength brown	n slightly sand					
1/12/14	 - - - - -			70			89 12	(1.56)								MG	
.03.GDT 11/12/14	-							(0.24)	Dark bro	wn slightly clayey S	SAND with occa	asional roots (	RELICT TOPS	SOIL)	1/ 3/1/	SUPD	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.	- 2.30-2.50 - 2.40-2.50 		ES 0							complete at 3.5m b		DEPOSITS)				GDU	
- COMBINED - 1008	-																
DLOGS								Length 3	.00m	Shoring/Support:	Date	Time	Water S Strike	Strikes Minutes	Standing	Rer	marks
DARD WOODFORD	D		— 3 A			<b>→</b>	<b>∓</b> B 1	Width	.00m	None Stability:	General Rem	arke					
TP LOG STAN	C						*		ees from	Stable	Trial pit comple observed. at 0.	ete at 3.5m bgl. .3m to 0.5m bg	<ol> <li>No radiological</li> </ol>	nce of hydrocarbo readings above ackfilled upon co	background	ation recorded	I.
08 WSP	;	Scale 1:	25				l dimens lentifica		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	riptions are bas	sed on visu	ual and	

	V		P						TRIAL F	PIT LO	G		Hol	e No.	TP1	08	
	50-182 M50 hone: (	3SP	-	-00		Project			Woodford	Aerodrom	e		She	eet	1 of	1	
Job No	7000	)443	30			Client			Harrow E	states Plc			Da		29-07- 29-07-	-14 -14	
Contracto	r / Dri	iller			Met	hod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)		Grour	nd Leve	l (m AC	)D)
\	NSP	UK				5	Spade		J Wa	atson		389829.460 382703.790			89.		·
SAMP	LES	& TE	STS	3						STR	ATA						Install a
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Desc	cription				Legend	Geology	
0.10-0.20	ES	0				89.53	-(0.20)	fine and r	ROUND: Brown sl medium subrounde	ed to subangula	ar of ash and	clinker with occ	asional	wire.		MG	
0.30-0.40	ES	0				89.43	0.30	rounded	ROUND: Dark gre GRAVEL of ash ar	nd clinker.					$\nearrow \nearrow$	MG	
-						89.23	-(0.20) 0.50	Gravel is	ROUND: Dark gre fine and medium :	subangular to s	subrounded G	RAVEL of ash	and clinl	ker.		MG	
-						89.13	0.60		wn slightly clayey f omplete at 0.6m b		m SAND. (GL	ACIAL DEPOS	ITS)			GDU	
D Sca																	
3		<u> </u>					Length		Shoring/Support:			Water S	Strikes				
		- 0.3 A	3 —		>		Width	1.30m	None	Date	Time	Strike	Minute	es	Standing	Rei	marks
D	D B 0.3						0	).30m	Stability:	Conoral Da	norks						
	C							rees from	Stable	evidence of co	y hand to 0.6m l ontamination ob	ogl due to proxim served. No radio ncountered. Hole	ogical rea	idings at	ove back	ground	ry
Sca	Scale 1:25 Notes: All manual id							metres. Log	gs should be read	in accordance	with the provi	ded Key. Desc	riptions a	are base	ed on visi	ual and	

				NS	P							TRIAL F	PIT LO	G		Hole No	TP10	)9	
			0-182 M50 none: 0	3SP	-	100		Proj	ect			Woodford	Aerodrome	e		Sheet	1 of	1	
	Job I		7000 r / Dr		30			Clie hod/		nt Use	d	Harrow E	states Plc		ates (NGR)		02-07- 02-07- ound Level	14	DD)
	Н	1 & C	Plan	t Hire	e Ltd				JC	B 3C	<	S We	eston		389769.450 382647.450		90.8	360	
	S	SAMP	LES	& TE	STS	3							STR	ATA					Install / Backfill
	De	pth	Туре	PID ppmV)	HSV (N/m2)	P.Pen (kN/m2)	Water	EI (mA	ev. AOD)	Depth (Thick			Desc	ription			Legend	Geology	
	0.00-0	0.20	ES		=	, = =		9	0.66	-ness) -(0.20) 0.20		andy SILT with roof					1/ 1//	TS	
	- - - -									- - -(0.60) -	Firm brov	wn clayey SILT. (G	ILACIAL DEPO	SITS)			× × × × × × × × × × × × × × × × × × ×	GDU	
	0.90						9.46	- -(0.60) -		t brown mottled gre					× ×	GDU			
J WSPETEMPLATE1.03.GDT 11/12/14		DO D							8.06	- - - -(1.40) - - - 2.80	Firm redomedium	dish brown mottled and coarse of grey	light grey, friab	ole, gravelly, C CIAL DEPOS	CLAY. Gravel	is subangular		GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1	- - - - - - -									-	Trial Pit t	erminated at 2.8m	bgl						
LOGS -										Length	00m	Shoring/Support:	Date	Time	Water Strike	Strikes Minutes	Standing	Rer	marks
JARD WOODFORD L	D D	<b>←</b>		— 3 A			-	В	1	Width	.00m	None Stability:			Эшке	iviinutes	Standing	Ker	HALKS
TP LOG STAND	C								*		on ees from north	Stable	observed. No	ete at 2.8m bgl. radiological rea		actory evidence ckground recorde i.			
08 WSP		Sca	ale 1:2	25			es: Al ual i				metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are ba	ased on visu	ıal and	

			NS	P						TRIAL F	PIT LO	G		Hole		21 <sup>2</sup>	10	
	1	50-182					Project							Shee	et			
	Telep	ohone:	0 3SP 0161 8 ax:	886 24	00		,			Woodford	Aerodrome	е			1	of	1	
	Job No	700	0443	30		(	Client			Harrow E	states Plc			Date	02	-07- -07-	14 14	
	Contracto	or / Dr	iller			Meth	hod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)		Ground L	evel	(m AC	DD)
	H & C	Plan	t Hire	e Ltd			J	CB 3C	<	S We	eston		389787.180 382632.080			90.7	700	
	SAMF	PLES		_				Depth	I		STR	ATA						Install / Backfill
	Depth	Туре	Old (bpmV)	HSV (kN/m2	P.Pen (kN/m2)	Water	Elev. (mAOD				Desc	cription			Le	egend	Geology	,
	- - -						90.40	(0.30)	MADE G	ROUND: Grass o	ver brown sligh	tly sandy SIL	T (TOPSOIL)				CMG	
	-							-(0.20)	MADE G	ROUND: Brown cl	ayey SILT						CMG	
	0.60	ES					90.20	-(0.20)	MADE G brick	ROUND: Light bro	wn slightly silty	sandy angula	ar fine to coars	e GRAVEL	_ of	$\times$	GMG	
	-						90.00	0.70	Firm brov	vn mottled grey CL	AY (GLACIAL	DEPOSITS)			<u> </u>			
	0.80 0.90	ES D						(0.40)							-		GDU	
	-						89.60	1.10	Firm light	t brown mottled lig	ht arev silty CL	AY with occas	sional grev silts	stone nartir	nas ×			
	_							_	(GLACIA	L DEPOSITS)	in grey only OL	VI WILL OCCU	sional grey sile	storic partii		× —		
	1.30	D						-							<u>×</u> _	× ×		
	1.50	В						(0.90)							<u>-</u>	<u>×</u> ×	GDU	
	-							_							<u>×</u>	X		
4	_														<u></u>	× -		
1/12/1	_						88.70	2.00	Firm brov	vn friable CLAY (G	SLACIAL DEPO	OSITS)				<u>×</u>		
.03.GDT 11/12/14	2.10	D							T IIIII DIO	WIT III GOD TO TO		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			E			
	-							_							_			
<b>IPLAT</b>	-							(0.80)									GDU	
PETEN	-							-							<u></u>			
J WS	-						87.90	2.80							=			
ON.GP	-							_	Borehole	terminated at 2.8r	n bgl							
/ERSI	-																	
DATE \	_							_										
P TO [	-																	
314 - U	_							_										
0-1008	-							[										
IBINE	_							-										
- CON											1							
LOGS								Length	.00m	Shoring/Support:	Date	Time	Water Strike	Strikes Minutes	Star	nding	Rei	marks
FORD	<b>—</b>		— 3			-			.00111	None								
WOOD			Α				<b>T</b>	Width										
ARD	D						B 1	1	.00m	Stability:								
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE 1			С				<u> </u>		on ees from north	Stable	observed. No	ete at 2.8m bgl. radiological rea	. No visual or olf dings above bac upon completion	kground rec				
3 WSP TF	Scale 1:25 Note						Il dimens		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are	e based o	n visı	ual and	
ಠ∣							ou											

		<b> </b>		P						TRIAL F	PIT LO	G		Hole N	No. <b>TP1</b>	11	
		150-182 M5 phone:	0 3SP		100		Project			Woodford	Aerodrome	e		Sheet	1 of	1	
	Job No	7000	)44	30			Client			Harrow E	states Plc			Date	29-07- 29-07-		
	Contracto	or / Dr WSP				Met	hod/Pla	nt Use Spade	d	Logged By	atson	E	ates (NGR) 389617.040 382661.820	G	round Leve		DD)
	SAMI	PLES	& TE	ESTS	 3						STR	ATA					Install / Backfill
	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Desc	ription			Legend	Geology	Buokiiii
	0.10-0.20	ES	0				00.40	_(0.35)	common	ROUND: Grass ov roots. Gravel is fin al plastic.	ver firm brown v ne and medium	ery sandy slig rounded of va	ghtly gravelly C arious lithologie	LAY with es with		MG	
	0.40-0.50 -	ES	0				90.48	(0.25)	MADE G GRAVEL	ROUND: Light bro of limestone.		ey sandy fine	and medium a	ngular		MG	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14										Shoring/Support:			Water S				
VOODFORD LC	<b> -</b>	- 0.3 - → A					l <del>-</del>	0 Width	1.30m	None	Date	Time	Strike	Minutes	Standing	Rer	marks
LOG STANDARD \	D C						B 0.3	Orientati degr	ion rees from	Stability:	evidence of co	hand to 0.6m l Intamination ob	bgl due to proxim served. No radio ncountered. Hole	logical readir	gs above back	ground	у
08 WSP TF	So	cale 1:2	25				II dimens dentificat	sions in		gs should be read	in accordance	with the provi	ded Key. Desc	riptions are	based on visi	ual and	

			۰V		P						TRIAL F	PIT LO	G		Hole No.	TP1	12	
	Т	150 elepho	-182 <sup>-</sup> M50 one: 0	3SP	-	00		Project			Woodford	Aerodrome	е		Sheet	1 of	1	
	Job No		000	443	30			Client			Harrow E	states Plc			Date	30-07- 30-07-		
	Contra	ctor			e Ltd		Met	thod/Pla	nt Use		Logged By	atson	E	ates (NGR) 389383.000 382566.210	Grou	nd Level	`	DD)
	SA	MPL	ES 6	& TE	STS	<u> </u>						STR	ATA					Install /
	Depti	n	Гуре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Desc	ription			Legend	Geology	Dackiii
								90.40			ROUND: ASPHA	LT.					TARMAC	
	0.10-0.2 - -	0	ES	0				90.13	(0.27)	Light grey	y brown CONCRE	TE.					CONC	
	0.40-0.6 - -	0	ES	0				90.08	(0.25)	MADE G	ROUND: Black sa ROUND: Light gre						MG	
	- 0.80-0.9 -0.80-0.9 - 1.00-1.2 - -	0	B ES D	0	60			89.78	0.70	MADE G MADE G	ROUND: Black sa ROUND: Soft loca ravel is fine to coa	Illy firm medium	strength dar	k brown sandy:	slightly gravelly		MG MG	
12/14	- 1.60-1.7 1.70-1.9 -		ES B	0	30		<u>‡</u>	88.93 88.83		MADE G angular d	ROUND: Soft brov of brick coal ceram ROUND: Very soft	ics and vesicula	ar slag.				MG MG	
1.03.GDT 11/12/14	- 2.20-2.4 -	0	D		26			88.33	2.20	Soft dark	brown organic CL	AY with abunda	ant plant mat	er (RELICT TC	PSOIL)		TS	
TO DATE VERSION GPJ WSPETEMPLATE	- 2.50-2.7 - - - - - -	0	D		26 20 32			88.13	(0.90)	Soft low s	strength brown slig		ntly gravelly C	ilay. (Glaciai	DEPOSITS)		GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1	D			- 2.2 A	2		•	B 0.6	Width  Orientati  degi	2.20m 0.60m	Shoring/Support: None Stability:	Date  General Rem. Trial pit comple observed. No	ete at 3.3m bgl radiological rea	Water S Strike 1.60  No visual or olfadings above back 1.6m bgl. Hole b	Minutes  ctory evidence of ground recorded	. Groundwa	See	marks epage
08 WSP TP		Scal	e 1:2	5				II dimens	sions in	north metres. Lo	gs should be read	in accordance	with the provi	ded Key. Descr	iptions are bas	ed on visi	ual and	

	<b> </b>	<b>NS</b> /SP	P						TRIAL F	PIT LO	G		Hole N	10. <b>TP</b>	113	
	50-182 M5 ohone:	The Q 0 3SP	•	100		Project			Woodford	Aerodrom	e		Sheet	1 c	f 1	
Job No	7000	0443	30			Client			Harrow E	states Plc			Date	01-0 01-0	7-14 7-14	
Contracto	or / Dr	iller			Met	hod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)	G	round Lev	rel (m A0	OD)
H & C	Plan	t Hire	e Ltd			JC	CB 3CX	K	J Wa	atson		389396.860 382499.570		9	0.150	
SAMF	PLES	& TE	STS	<u></u>						STR	ATA					Install Backfil
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)				cription				nd Geolog	
0.12-0.20	ES					90.03	0.12		ROUND: CONCR		vally SAND w	ith some grave	l of ach clin	kor V	CONC	
0.12-0.20	E9						(0.38)		sional slate and br		velly SAIND w	iiii some grave	i di asti ciiti	Kei 💮	MG	
0.50-0.60	ES		76			89.65	0.50	MADE GI	ROUND: Firm loc	ally soft mediu	m strength red	ddish brown sa	ndy gravelly	, <u> </u>		
-			58				(0.50)								MG	
1.00	D		26			89.15	1.00	PROBAB sandy slig lithologies	LE MADE GROUI ghtly gravelly CLA s.	ND: Very soft lo	ow strength gr ne and mediur	rey and brown s	sandy to ver arious	У		
1.50-1.60	ES		40				-(1.60)								MG	
2.00	D		23				- - - - -									
_						87.55 87.45		Brown sli	ghtly clayey SANI	D with occasion	nal roots (POS	SIBLE RELIC	T TOPSOIL	) \(\frac{1}{2}\frac{1}{2}\)	SUPD	
D Sc	87.55 87.45															
			<u> </u>	1		1	Length		Shoring/Support:			Water S	Strikes			
	<del></del>							.00m	None	Date	Time	Strike	Minutes	Standir	g Re	emarks
D		С				B 1 <u>▼</u>	Orientati degr		Stability: Hole unstable 1.0m to 2.7m bgl	observed. No	lete at 2.7m bgl. radiological rea	No visual or olfa dings above bac upon completion.	kground reco			
Sc				II dimens dentificat		metres. Loç	gs should be read	in accordance	with the provi	ded Key. Desc	riptions are	based on v	isual and			

ı	<b> </b>		P						TRIAL F	PIT LO	G		Hole	e No.	TP1′	14	
	150-182 M5 phone:	0 3SP	,	00	F	Project			Woodford	Aerodrom	e		She	et	1 of	1	
Job No	7000		30		C	Client			Harrow E	states Plc			Dat		02-07- 02-07-		
Contracto	or / Dr	iller		N	/leth	od/Pla	nt Use	d	Logged By			ates (NGR)		Grour	nd Level	(m AC	)D)
H & C	Plan	t Hire	e Ltd			J	CB 3C>	<	S McG	Geever		389351.075 382577.499					
SAMF	PLES	_	_	_			L 5 "	ı		STF	RATA						Insta Back
Depth	Туре	PID (ppmV)	HSV kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD				Desc	cription				Legend	Geology	,
							(0.25)	MADE G	ROUND: Dark bro	wn clayey SAN	ND with rootle	ts. (TOPSOIL)				GMG	
0.20	ES				_		(0.60)	MADE GF and vario	ROUND: Light bro us lithologies.	wn slightly gra	velly SAND. (	Gravel is of glas	ss, brick, a	ash		GMG	
0.90	ES		150				(0.55)		ROUND: Very stiff			• •	,	AY.		CMG	
1.50	D				-		(0.30)		brown CLAY with					sandy		SUPD	
- 2.00	D		65 34				(1.30)	CLAY. Gr DEPOSIT	avel is fine and m							GDU	
			80		-		3.00		gl; high strength omplete at 3.0m b	gl.							
							- - - - -										
	1			<u> </u>			Length		Shoring/Support:			Water			<u>'</u>		
D		– 2.7 A	7 —		<b>→</b>	∓ 3 1.4 <u>↓</u>	Width	.40m	None Stability:	Date  General Rem Trial Pit comp	lete at 3.0m bg	Strike  Strike	Minute:		Standing	Re	mark
							r	ees from north	Stable gs should be read	No radiologica Groundwater Hole backfille	al readings abou not encountered d upon complet	ve background re d. ion.	ecorded.				

				VS	P						TRIAL F	PIT LO	G		Hole No.	TP1	15	
		15 Teleph	0-182 M50 none: (	3SP	-	00	1	Projec	t		Woodford	Aerodrome	е		Sheet	1 of	1	
	Job I		7000 · / Dri		30			Client	ant Use	ed	Harrow E	states Plc	Co-Ordina	ates (NGR)	Date	01-07- 01-07- nd Level	14	DD)
	Н	1 & C	Plant	t Hire	e Ltd				ICB 3C	X	J Wa	atson		389370.230 382606.760		90.7	710	
	S	SAMP	LES	& TE	STS	3						STR	ATA					Install / Backfill
	De	pth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOI	Depti (Thick -ness)	ו		Desc	ription			Legend	Geology	
	_							90.5		2	ROUND: ASPHAL						TARMAC	
	-							90.4	5 0.26		ROUND: CONCR	ETE with 8mm	diameter reb	oar		244	CONC	
	-							90.3	6 0.35		ROUND: Brown sa					XX	MG	
	-0.35-0	0.50	ES					90.2	1 0.50		ROUND: Dark gregolinker.	yish brown and	black sandy	fine and mediu	m GRAVEL of	XX	MG	
	0.50-0 0.60-0		ES B						- (1.00)	MADE G	ROUND: Brown S, ndstone, occasiona			AVEL with some	COBBLES of		MG	
	- - -							89.2	1 1.50		dium strength redd	ish brown slight	tly sandy CL	AY. (GLACIAL	DEPOSITS)		· ·	
FEMPLATE1.03.GDT 11/12/14	- 1.80 - - - - -		68 ES 89.21						(1.10)								GDU	
WSPE	-								-(0.20)	Brown si	Ity fine SAND. (GL	ACIAL DEPOS	SITS)			××	GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1	- - - - - - - -	87.91							- - - - - - -		erminated at 2.8m	bgl						
- S9C											Shoring/Support:			Water S	trikes			
D WOODFORD LC	3 — 3 A						-	<b>T</b>	Width	3.00m	None	Date	Time	Strike	Minutes	Standing	Ren	marks
P LOG STANDAR	C							B 1	Orienta		Stability: Stable	observed. No	ete at 2.8m bgl. radiological rea	No visual or olfa dings above back upon completion.				
08 WSP Ti		Sca	le 1:2	:5				l dimer dentifica		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desci	iptions are bas	ed on visu	ual and	

		<b> </b>	NS	P						TRIAL F	PIT LO	G		Hole No.	TP1	16	
	1:	<b>W</b> 50-182	SP	uavs			Project							Sheet			
		M5 hone:	0 3SP	•	00		TOJCCE			Woodford	Aerodrome	Э			1 of	1	
	Job No	7000	)443	30		(	Client			Harrow E	states Plc			Date	03-07- 03-07-	14	
	0 1 1 -	- / D-				N 4 - 41-	I/DI -	-411	-1	Lawred Div		Co Ordina	otoo (NCD)				,D)
	Contractor H & C			e Ltd		wetr	nod/Pla J0	OB 3C		Logged By	Geever	E	ates (NGR) 389290.000 382664.440		nd Level		(טוי)
	SAMF	PLES	& TE	STS	3						STR	ATA		l e			Install / Backfill
	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)	1		Desc	ription			Legend	Geology	
	- - -						90.71	0.07 - - -(0.43)	MADE G predomir	ROUND: ASPHAL ROUND: Light ora nantly sandstone.		ndy fien to co	arse GRAVEL	. of		TARMAC GMG	
	- - 0.70 - - -	ES		70 86			90.28	(0.70)	Stiff, med is fine to	dium to high streng coarse angular to	well rounded of	various lithol	ogies (GLACI	ÁL DEPOSITS).		GDU	
/14	- - - - - -	D		70				- -(0.80) -	and med	wnish mottled light ium subangular to TS).	grey slightly sa well rounded of	andy slightly g f various litho	ravelly CLAY. logies (GLACI,	Gravel is fine AL		GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1.03.GDT 11/12/14							88.78	2.00		complete at 2m bgl							
- SS								Length		Shoring/Support:			Water	Strikes			
있								2	2.80m	None	Date	Time	Strike	Minutes	Standing	Rer	marks
VOODFOF	<b> </b>		– 2.8 A	3 —		>		Width		·							
2	D						 B 1.2	1	.20m	Stability:	1						
P TP LOG STANDA			С				<u>*</u>		rees from north	Stable	No radiological Groundwater r Hole backfilled	ete at 2.0m bgl factory evidenc I readings abov not encountered upon completi	e of contaminati e background re I. on.	corded.			
08 WS	Sc	ale 1:2	25				dimens lentificat		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	riptions are bas	ed on visı	ual and	

		V		P						TRIAL F	PIT LO	G		Hole N	TP1	17	
	15	50-182	SP The Q	uays		-	Project							Sheet			
	Telep	hone: (	0 3SP 0161 8 ax:	386 24	100					Woodford	Aerodrom	е			1 of	1	
	Job No	7000	)443	30			Client			Harrow E	states Plc			Date	08-07- 08-07-	-14 -14	
	Contracto	r / Dri	iller			Metl	nod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)	G	round Leve	l (m AO	D)
	H & C	Plant	t Hire	e Ltd			J	CB 3C	X	S We	eston	E N	389439.570 382429.610	)	88.3	300	
	SAMP		_	_	_			Depth	ı		STR	ATA					Install / Backfill
	Depth	Туре	Old (ppmV	HSV (KN/m2)	P.Pen (kN/m2	Water	Elev. (mAOD	(Thick			Desc	ription			Legend	Geology	,
	-						88.25 88.15	0.05		ROUND: ASPHAL		lor fine to one	uraa limaatana	arovol	-\\\\	TARMAC GMG	
	- 0.20 - 0.30 	ES ES					86.80	[1.35]	POSSIBI Gravel is	LE MADE GROUN angular coarse of	D: Firm brown	slightly grave				СМС	
	_						86.80	1.50		vn CLAY (GLACIA	L DEPOSITS)				<u>XXX</u>		
03.GDT 11/12/14	- - - -							(0.90)							*	GDU	
ATE1.	-						85.90	2.40		un aliabtly gravally	CLAV Craval	io aubraundo	d modium and	Locarco	X_X - X-		
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14	- - - - - - -						85.70	-(0.20) 2.60	(GLACIA	wn slightly gravelly L DEPOSITS) terminated at 2.6r		is subrounder	a medium and	coarse		GDU	
RD LOGS - COMBINED -1	-							Length	3.00m	Shoring/Support:	Date	Time	Water Strike	Strikes Minutes	Standing	Rer	marks
<b>JDFO</b>	-		<b>—</b> 3			-		) A (: -!!!)		-							
NDARD WOC	D		<u>A</u>				B 1 ±	Width 1	.00m	Stability:	General Rem						
TP LOG STA			С						rees from north	Stable	observed. No	radiological rea	No visual or olf dings above bad upon completion	ckground reco			
08 WSF	Sca	ale 1:2	25				l dimen: dentifica		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Des	criptions are	based on visi	ual and	

		<b>NS</b> /SP	SP						TRIAL F	PIT LO	G		Hole No.	TP1	18	
	150-182 M5 ephone:	The C		00	Р	roject			Woodford	Aerodrom	e		Sheet	1 of	1	
Job No	7000	044	30		С	lient			Harrow E	states Plc			Date	02-07- 02-07-	14 14	
Contract	tor / Dr	iller		N	/letho	od/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)	Grou	nd Level	(m AC	)D)
H & 0	C Plan	t Hir	e Ltd			JC	B 3CX	(	S McC	Geever		389693.660 382584.990		90.8	380	
SAM	IPLES	& TE	ESTS	<u> </u>						STR	ATA					Install /
Depth	Туре	PID ppmV)	HSV (kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				Desc	cription			Legend	Geology	
0.00-0.20	ES						-ness) -(0.20)	MADE GI	ROUND: Brown co	obbly gravelly S	SAND. Gravel	is fine to coarse	of shale and		GMG	
-						90.68		MADE G	ROUND: Black as slithologies.	hy sandy fine to	o coarse angu	ılar to subrounde	d GRAVEL			
-						90.38	(0.30) 0.50		<b></b>						GMG	
F						90.28			ROUND: Reddish antly brick.	brown sandy g	ravelly subro	unded COBBLES	of		GMG	
-							(0.50)		ROUND: Orangish atly concrete.	n brown SAND	with frequent	cobbles and bou	lders of		GMG	
1.20-1.30	ES					89.78	1.10 - -(0.40)	CLAY. G	strength reddish larvel is fine and m	brown mottled edium subrour	light grey sligl nded to well ro	ntly sandy, slightl ounded of various	y gravelly lithologies		GDU	
1.40	D		112 118				_` ´	(02.10							GDU	
2.00-2.10	В		120			89.38 88.28	(1.10)	Pinkish li rounded (	ght brown gravelly of various lithologi	SAND. Grave es. (GLACIAL	l is fine and m DEPOSITS)	edium subangul	ar to well		GDU	
							- - - - - - - - -	Trial pit c	omplete at 2.6m b	gl.						
<u> </u>			1				Length		Shoring/Support:			Water Str	ikes			
		— 4 A			→ 	7	Width	00m 20m	None Stability:	Date	Time	Strike	Minutes	Standing	Rei	marks
		С				<u>*</u>		on ees from orth	Stable	No visual or o No radiologica Groundwater	ete at 2.6m bgl. Ifactory evidend		observed. rded.			

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

Scale 1:25

		<b>VS</b>	P						TRIAL F	PIT LO	G				TP1 <sup>′</sup>	19	
	hone: (	3SP	•	400		Project			Woodford	Aerodrome	e		She	eet	1 of	1	
Job No	7000	)443	30			Client			Harrow E	states Plc			Da	(	03-07- 03-07-		
Contracto					Met	hod/Pla			Logged By			ates (NGR) 389744.100		Groun	d Level		D)
H & C						J(	CB 3CX		S McG	Geever		382555.140			90.2	270	Install
SAMF	Type	I	ı —	1	Water	Elev. (mAOD)	Depth			STR	cription				Legend	Geology	Install Backfi
0.20	ES	0	7 3	<u> </u>	<i>S</i>		-ness) (0.30)	Gravel is	ROUND: Reddish fine to coarse ver	brown slightly o	clayey slightly inded of vario	cobbly gravell us lithologies.	y SAND. (TOPSO	IL)		GMG	
0.50		0				89.97	-(0.40)		ROUND: Greyish I one.	brown relict sur	facing recove	red as boulder	ry cobbly	gravel		GMG	
1.50	ES	0				89.57	- - - -(1.20) - -		brown medium SA	ND. (GLACIAL	DEPOSITS)					GDU	
UP TO DATE VERSION GFJ WSPETEMPLATET 03.GDT 11/12/14	В					88.37	(1.10)	Reddish rounded	brown SAND and of various of litholo	ogies (GLACIAI	vel is fine to α L DEPOSITS	parse subroun	ded to ve			GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION GPJ WSPETEMPLATE (.03.5D)		- 3.5 A	5		>	B 1.5 ★	Width 1 Orientati	.50m	Shoring/Support: None Stability:	No visual or ol Possible forme	lete at 3.0m bgl lfactory evidenc er surface relate	Water : Strike	Minute on observe	ed.	Standing suntered a		marks
di d	ale 1:2	:5				Il dimens	sions in		gs should be read	Groundwater r	not encountered	d. Hole backfilled	upon com	-	d on visı	ual and	

			WS	SP							TRIAL F	PIT LO	G		Hole No	TP12	20	
	Te	150-18	50 3SF	, ,	400	F	Projec	ct			Woodford	Aerodrome	e		Sheet	1 of	1	
	Job No		0044 Priller	30			Client		t Used	d	Harrow E	states Plc	Co-Ordina	ates (NGR)	Date	07-07- 07-07- ound Level	14	)D)
	Н&	C Pla	nt Hir	e Lto	t			JCI	в зсх	(	S We	eston	E N	389836.660 382585.530		89.0	070	
Ī	SAN	/PLES	_	_					D			STR	ATA					Install / Backfill
	Depth	Тур	PID	HSV	P.Pen (kN/m2)	Water	Elev (mAO	)(D	Depth Thick			Desc	ription			Legend	Geology	
	0.10	ES					88.	-	ness) (0.30) 0.30	TOPSOII	.: Brown slighty sa	ndy CLAY with	rootlets.			\frac{1}{2\ldot \frac{1}{2}} \cdot \frac{1}{2\ldot	TS	
	0.40	ES					88.	Ţ	(0.20) 0.50	Brown si	ty fine SAND. (GL	ACIAL DEPOS	ITS)			×	GDU	
	- -							Ţ	(0.20)	Firm orai	ngish brown sandy	CLAY. (GLACI	IAL DEPOSIT	S)		<u> </u>	GDU	
	- - - - - 1.20	D					88.:	-	(1.00)	Firm redo	dish brown mottled	grey slightly sa	andy CLAY. (	GLACIAL DEF	POSITS)		GDU	
	-1.20 - - - 1.70-2.50	ES					87.:	37	1.70	Orange b	prown silty fine SAI	ND. (GLACIAL	DEPOSITS)					
SPJ WSPETEMPLATE1.03.GDT 11/12/14	- - - - - - - - -						86.	-	(1.20)	2.20 m b	gl; damp						GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1	- - - - - - - - -						80.	-	-	Trial Pit t	erminated at 2.9m	bgl						M V 15M
FOGS-								L	ength	00m	Shoring/Support:	Date	Time	Water Strike	Strikes Minutes	Standing	Rer	marks
ARD WOODFORD	<b>⊢</b> D		— 3 			<b>→</b>	Т В 1	-	Vidth	.00m	None Stability:	-						
TP LOG STAND/			C	;			<u> </u>			on ees from orth	Stable	observed. No	ete at 2.9m bgl. radiological rea	No visual or olfa dings above bac upon completion	kground record			
08 WSP	8	Scale 1	:25				dime lentific			metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	riptions are b	ased on visu	ial and	

			NS	P							TRIAL F	PIT LO	G		Hole No	TP12	21	
		50-182 M5 hone:	0 3SP	-	100		Proje	ct			Woodford	Aerodrome	e		Sheet	1 of	1	
	b No	700( r / Dr		30			Clien		nt Use	d	Harrow E	states Plc	Co-Ordina	ates (NGR)	Date	07-07- 07-07- ound Level	14	)D)
	H & C			e Ltd					:B 3C)			eston	E	389452.550 382355.330		87.		,,,
	SAMP			_						I		STR	ATA		<u> </u>			Install / Backfill
	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev (mAC	/. )D)	Depth (Thick -ness)			Desc	cription			Legend	Geology	,
0.2	0	ES					86.	85	(0.30)		ROUND: Grass ov			D with rootlets	(TOPSOIL)		GMG	
0.6	0	ES					86.	40	(0.45) - 0.75								GMG	
1.0		D ES							- - - -	MADE G	ROUND: Firm gre	y, mottled brow	n CLAY, with	sandy pocket	S			
1.5	0	D							- _(1.45) - -								GMG	
1.03.GDT 11/12/14							84. 84.	95 93/	- - 2.20 2.22	00.09.09	rsandy CLAY (GL/ y CLAY (GLACIAL		T)				GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1	0	D							- - - _(1.08) - - -	Timi gies	Y OLAT (GLACIAL	BEI GGII)					GDU	
COMBINED - 100914 - UP TO DAT							83.	85	3.30	Trial Pit t	terminated at 3.3m	bgl				<u></u>		
- S907									Length	00m	Shoring/Support:	Date	Time	Water Strike	Strikes Minutes	Standing	Rei	marks
RD WOODFORD	<b>⊢</b>		— 3 <u> </u>			-	   T   B 1	-	Nidth	.00m	None Stability:	2010	71110	Suno		Standing	TXG	road 1900
TP LOG STANDA			С				<u>↓</u>	_		on ees from north	Stable	observed. No	ete at 3.30m bg radiological rea	II. No visual or o dings above bac upon completion	kground record			
08 WSP	Sca	ale 1:2	25				II dime			metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are b	ased on visu	ual and	

		V		P						TRIAL F	PIT LO	G		Hole No	TP12	22	
		50-182 M50 hone: 0	0 3SP		00	ı	Project			Woodford	Aerodrome	e		Sheet	1 of	1	
	Job No	7000	)443	30		(	Client			Harrow E	states Plc			Date	29-07- 29-07-		
	Contracto	r / Dri	iller			Meth	nod/Pla	nt Use	ed	Logged By		Co-Ordina	ates (NGR)	Gro	ound Leve	(m AO	D)
	١	WSP	UK				;	Spade		J Wa	atson		389417.940 382294.510		87.	540	
	SAMP	LES	& TE	STS	3						STR	ATA					Install / Backfill
	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)	1		Desc	cription			Legend	Geology	
	0.10-0.20	ES	0				87.04	(0.50)	fine to coa	ROUND: Grass ov arse of limestone,	er brown slight ash, clinker an	ly clayey sligh d brick.	ntly gravelly SA	AND. Gravel is	· X	MG	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14									Trial pit c	omplete at 0.5m b	gl						
.0GS								Length		Shoring/Support:	Data	Time	Water		Ctondine	D.	marks
JARD WOODFORD L	D D		– 0.3 <u>A</u>	3 —		<b>→</b>	<b>∓</b> B 0.3	Width	).30m ).30m	None Stability:	Date	Time	Strike	Minutes	Standing	Rer	marks
P TP LOG STANE			С				*	ı	rees from north	Stable	evidence of co observed. Gro	/ hand to 0.5m   ontamination ob oundwater not e	bgl due to proxir served. No radio ncountered. Hol	ological readings e backfilled upo	s above backon completion.	ground	у
08 WS	Sca	ale 1:2	25				l dimens dentifica		metres. Log	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are b	ased on visi	ual and	

			<b>NS</b>	P						TRIAL F	PIT LO	G		Hole No	TP12	23	
		150-182 M5 phone:	0 3SP	-	400		Projec	t		Woodford	Aerodrome	e		Sheet	1 of	1	
	Job No Contract	7000 or / Dr		30			Client	ant Use	ed	Harrow E	states Plc	Co-Ordina	ates (NGR)	Date	07-07- 07-07- ound Level	14	)D)
	H & 0	C Plan	t Hire	e Lto	i		J	CB 3C	X	S We	eston		389440.640 381553.760		88.7	720	
	SAM	PLES	_					1			STR	ATA		<u> </u>			Install / Backfill
	Depth	Туре	PID (bpmV)	HSV KN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOE	Depth (Thick			Desc	ription			Legend	Geology	,
	-						88.5	-ness) -(0.20) 2 0.20		ROUND: Grass ov		silty fine SAN	D with rootlets	(TOPSOIL)		GMG	
	 0.30-0.50 - - -	ES						- -(0.60) -			ny mio or unb					GMG	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14	- 0.80-1.20 - 0.80-1.20 	B ES					86.4	(1.50)	Orange t	erminated at 2.3m		O (GLACIAL I	DEPOSITS)		X   X   X   X   X   X   X   X   X   X	GDU	
SOOTC								Length	3.00m	Shoring/Support:	Date	Time	Water Strike	Strikes Minutes	Standing	Rer	marks
SP TP LOG STANDARD WOODFORE	D		— 3 A		Note		B 1	Width  Orientat  deg	ion rees from	Stability: Stable	contamination Groundwater r	ete at 2.3m bgl. observed. No r not encountered	No visual or olfa adiological readi I. Hole backfilled	ngs above bacl upon completion	kground recor on.		
98 W	S	cale 1:2	25				dentifica		metres. Lo	gs should be read	iii accordance	with the provi	uea ney. Desc	aiptions are b	ased on visi	iai and	

				VS	P							TRIAL F	PIT LO	G		Hole No	TP12	24	
	Te		M50	he Qi 3SP 161 8	-	00		Proje	ect			Woodford	Aerodrome	е		Sheet	1 of	1	
	Job No	70		443	30			Clier					states Plc			Date	07-07- 07-07-	14	
	Contrac H &	ctor / C P			e Ltd		Met	nod/		nt Use CB 3C		Logged By	eston	E	ates (NGR) 389479.730 381526.140	)	ound Level 87.6		)D)
	SAI	MPLI	S 8	k TE	STS	3							STR	ATA					Install /
	Depth	T	/pe	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Ele (mA	ev. OD)	Depth (Thick			Desc	ription			Legend	Geology	
	-							87	7.43	-ness) -(0.20) 0.20		er brown very silty					1/ 1/2 1/1/2 1/2	TS	
	- 0.20-0.40 - -	) E	S							- -(0.40)	Brown sl	ghtly clay slightly s	silty fine SAND	(GLACIAL DE	EPOSITS)			GDU	
	- 0.60-1.00 - -	) E	S					87	7.03	0.60 - -(0.40)	Light gre	y silty fine SAND (	GLACIAL DEPO	OSITS)			× · · · · · ·	GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14	- 1.00-2.00		В						5.63	- - - -(1.00) - -	Orange b	erown silty fine SAf	·	DEPOSITS)				GDU	
D LOGS -										Length 3	.00m	Shoring/Support:	Date	Time	Water Strike	Strikes Minutes	Standing	Rer	marks
ARD WOODFOR	D			– 3 <u>A</u>			<b>&gt;</b>	В	1	Width 1	.00m	None Stability:							
TP LOG STAND				С				-	¥ ,		rees from	Stable	No radiologica	ete at 2m bgl. N	e background re	ctory evidence of ecorded. Ground			
1 ASM 80	;	Scale	1:25	5			es: Al lual id				metres. Lo	gs should be read	in accordance	with the provi	ded Key. Des	criptions are ba	ased on visu	ıal and	

		<b> </b>		P						TRIAL F	PIT LO	G		Hole No	TP12	25	
	1:	50-182	/SP The Q 0 3SP	uays			Project							Sheet			
	Telep	hone:	0161 8 ax:	386 24	00					Woodford	Aerodrom	е			1 of	1	
	Job No	7000	0443	30			Client			Harrow E	states Plc			Date	07-07- 07-07-		
	Contracto	ır / Dr	iller		1	Meti	hod/Pla	nt l lse	d	Logged By		Co-Ordina	ates (NGR)	Gro	ound Leve		וטו
	H & C			e Ltd		IVIC		CB 3C)			eston	E	389566.880 381445.690	)	86.		,,
Ī	SAMF	PLES	& TE	STS	<del></del>						STR	ATA					Install /
	Depth	Туре	PID (Vmqq)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Desc	cription			Legend	Geology	
	0.10-0.30	ES						(0.45)	MADE G	ROUND: Light bro	wn sandy angu	ılar fine and n	nedium GRAV	ÆL		GMG	
	-0.45-0.90 0.50-0.80	D ES					86.12	0.45	Brown sli	ghtly silty fine SAN	ND (GLACIAL [	DEPOSITS)				GDU	
	- - -						85.67	-	Orange b	prown very silty fine	e SAND (GLAC	CIAL DEPOSI	TS)		× ×	GDO	
ŀ	1.00-2.00 -1.00-2.00 1.00-1.20	B D ES						-							× · · · · · · · · · · · · · · · · · · ·		
	- - -							(1.30)							X	GDU	
.GDT 11/12/14	- - -						84.37	2.20	Di II i I			(8) 4 8 4	DEDOCITO)		×		
U WSPETEMPLATE1.03.	- 2.30-2.50 - - -	D						-(1.00)	Pinkish b	rown slightly silty f	îne SAND. Dar	mp. (GLACIAI	L DEPOSITS)		× · · · × · · · · · × · · · · · · · · ·	GDU	
ATE VERSION.GP	- - - -						83.37	3.20							× · · · · · · · · · · · · · · · · · · ·		
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1.03.GDT 11/12/14	- - - -							-									
. Ses		•	*		•	•		Length	•	Shoring/Support:				Strikes	•		
ODFORD LC	<b> </b>		— 3 ^					3 Width	.00m	None	Date	Time	Strike	Minutes	Standing	Re	marks
OG STANDARD WC	D		C				B 1	1 Orientati	ees from	Stability:	observed. No	ete at 3.2m bgl. radiological rea		factory evidence ckground record			
08 WSP TP L	Sc	ale 1:2	25				II dimens dentifica	sions in	metres. Lo	gs should be read	in accordance	with the provi	ded Key. Des	criptions are b	ased on visi	ual and	

			WS	P						TRIAL F	PIT LO	G		Hole No.	TP12	26	
		150-182 M5 phone:	0 3SP	•	100	ī	Projec	t		Woodford	Aerodrom	e		Sheet	1 of	1	
	Job No	700	044	30		(	Client			Harrow E	states Plc			Date	07-07- 07-07-		
	Contract H & 0	or / Dr C Plan		e Ltd		Meth		ant Use		Logged By	eston	E	ates (NGR) 389775.320 381281.850	)	und Level 82.1		DD)
	SAM	PLES	& TE	STS	 S						STR	ATA		<u> </u>			Install /
	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOI	Depth (Thick -ness)	n		Desc	cription			Legend	Geology	
	0.10-0.80	ES					82.0 81.3	(0.70)	MADE G fragment	ROUND: ASPHAI ROUND: bboulde is.		of brown san	dstone with as	sh and rare brick	<b>*</b>	TARMAC GMG	
	0.80-1.30	ES D						(0.90)	MADE G	ROUND: Firm ligh	t grey sandy Cl	LAY				CMG	
03.GDT 11/12/14	1.70-2.20 - - -	D					80.4 79.9	(0.50)	Firm brow	wn CLAY with fine	rootlets (GLAC	CIAL DEPOSI	ΓS)			GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1.03.G		D						- - -(1.00) - -	Firm grey	y slightly friable CL	AY (GLACIAL I	DEPOSITS)				GDU	
<b>MBINED -100914 - UP TO DATE</b>	3.20-3.50	В					78.9 78.6	(0.30)	Grey san (GLACIA	ndy GRAVEL. Grav NL DEPOSITS) terminated at 3.5m		ed to rounded	fine to coarse	sandstone	0000	GDU	
WOODFORD LOGS - COI			3 A			<u> </u>	<u> </u>	Width	3.00m	Shoring/Support: None	Date	Time	Water Strike	Strikes Minutes	Standing	Rer	marks
WSP TP LOG STANDARD	D	cale 1:	C 25			es: All	B 1	Orientat deg	rees from north	Stability: Stable gs should be read	observed. No encountered. I	ete at 3.5m bgl. radiological rea Hole backfilled i	dings above bad upon completion		d. Groundwa	iter not	
8					mar	iual ic	lentifica	ation.									

										Hole No	<b>.</b>		
		<b>NS</b> /SP	P				-	TRIAL PIT LO	OG	TIOIC NC	TP12	27	
	50-182 M50 hone: 0	The Q	•	00		Project		Woodford Aerodroi	me	Sheet	1 of	1	
Job No	7000	)443	30			Client		Harrow Estates Pl	С	Date	08-07- 08-07-		
Contracto	or / Dr	iller			Ме	thod/Plant Use	d	Logged By	Co-Ordinates (NGR)	Gro	ound Level	l (m AO	D)
H & C	ontractor / Driller  H & C Plant Hire Ltd			JCB 3C>	(	S Weston	E 389813.920 N 381275.740		82.3	320			
SAMF	PLES	& TE	STS	;				S	ΓRΑΤΑ				Install / Backfill
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD) (Thick -ness)		De	escription		Legend	Geology	
0.10	ES					82.17 0.15		OUND: Brown sandy slightly dium concrete and rare brick	gravelly SILT with rootlets. Grave	is angular		CMG	
0.20	D					82 02 0 30	MADE GR	OUND: Light grey sandy ang	ular fine to coarse gravel of limest	one		GMG	

Depth	T	()	_							011	RATA					Back
	Туре	PID (ppmV)	HSV (kN/m2	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	cription			Legend	Geology	
						00.47	,	MADE G	ROUND: Brown sa	andy slightly gr	avelly SILT w	ith rootlets. G	avel is angular		CMG	
0.10	ES D					82.17	-		ROUND: Light gre		ar fine to coars	se gravel of lir	nestone		GMG	
0.20 0.30 0.40	ES D ES					82.02	(0.50)	MADE G medium	ROUND: Dark blui GRAVEL with rare	sh grey dark g angular coars	rey stained ar e brick. Hydro	ngular to sub a carbon odour	angular fine to		GMG	
}						81.52	0.80	MADE G	ROUND: Brown st	ained dark gre	ov silty fine SA	ND with hydro	ocarbon odour	$\longrightarrow$		
0.90	ES D						- - -	WADE O	NOOND. BIOWII SE	amed dark gre	y sinty line on	ND WITH HYGIC	ica por oddar			988888
- - 1.60 -	D						- -(1.40) - - -								GMG	
2.00	D						_									爱
2.20	ES					80.12	2.20	Trial pit a	complete at at 2.2n	, hal				$\longrightarrow$		
2.20							- - - - - - - - - -									
							Length		Shoring/Support:	Data	Timo		Strikes	Standing	Da	marke
D		-3 A			<b>-</b>	B 1 ↓	Width 1.	00m 00m	None Stability:	Date General Ren		Strike	Minutes	Standing		marks
0	ale 1:2	C		Note	s: All		n	ees from orth	Stable gs should be read	radiological re backfilled upo	eadings above b on completion.	ackground reco	odour encountered orded. Groundwater orded. Groundwater order orde	not encou	ntered. H	ole

			<b>NS</b> /SP	P						TRIAL F	PIT LO	G		Hole		P12	28	
		50-182 M5 hone:	The C	-	400		Project			Woodford	Aerodrome	е		Shee		of	1	
	Job No	7000	0443	30			Client			Harrow E	states Plc			Date	08	-07- -07-		
	Contracto			e Lto		Met	hod/Pla	int Use		Logged By	eston	E	ates (NGR) 389888.470 381429.400		Ground L	_evel		DD)
	SAMF	PLES	& TF	STS	 S						STR							Install /
	Depth	Туре	<u> </u>	_	_	Water	Elev. (mAOD					ription			Le	egend	Geology	Backfill
	- - -							-ness) - -(0.38)	MADE GF	ROUND: Reinforce	ed CONCRETE	<u> </u>			A 7 A 7 A 7	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CONC	
	0.40-0.50	ES					81.96	-	MADE GF	ROUND: Light bro	wn sandy angu	lar fine to coa	arse GRAVEL o	of sandstor	ne.		0140	
	-						81.74	0.60		prown mottled are	v eliabtly eilty C	I AV Pare e	ub rounded me	dium to co	yarea ×o	$\frac{1}{2}$	GMG	
	-0.70 - - - - - - - -	ES D						(0.90)	gravel of d	orown mottled gre quartzite. (GLACI/	y siigntiy siity C	LAY. Kares	ub rounded me	aium to co	Arse Arguments	× × × × × × × × × × × × × × × × × × ×	GDU	
1.03.GDT 11/12/14	1.80-2.00 D					1	80.84	(0.90)		n, grey mottled fri	able gravelly, (	CLAY. (GLA	CIAL DEPOSIT	S)		× 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GDU	
<b>IPLATE</b>	2.40-2.60 -2.40-2.60	B ES				Ţ	79.94	(0.20)	Red brow	n silty fine SAND	(GLACIAL DEF	POSIT)			×	×	GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.							79.74		Trial Pit te	erminated at 2.6m	bgl				ix			
es - co								Length		Shoring/Support:			Water S	Strikes				
3D LOC									.00m	None	Date	Time	Strike	Minutes	Star	nding	Rer	marks
<b>JODFOF</b>	-		— 3 A			-	ł	Width					2.40					
LOG STANDARD WO	D		С				B 1 <u>↓</u>	Orientati degr	on	Stability:	observed. No	ete at 2.60m bo radiological rea	gl. No visual or oli dings above bac ble backfilled upor	ground rec	orded. grou			
08 WSP TF	Sc	ale 1:2	25				II dimens dentifica	sions in		s should be read	in accordance	with the provi	ded Key. Desc	riptions are	e based o	n visı	ual and	

			NS	P						TRIAL F	PIT LO	G		Hole N	TP12	29	
		50-182 M5 hone:	0 3SP	-	400		Project			Woodford	Aerodrom	e		Sheet	1 of	1	
	Job No	7000	)443	30			Client				states Plc			Date	08-07- 08-07-	-14	
	Contracto H & C			e Ltd		Met	hod/Pla J0	nt Use CB 3C)		Logged By	eston	E	ates (NGR) 389792.340 381532.860	Gı	round Level 82.9		D)
	SAMF	PLES	& TE	STS							STR	ATA					Install / Backfill
	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Desc	cription			Legend	Geology	
	-						82.91 82.68	0.07	MADE G	ROUND: ASPHAL ROUND: Reinforce	ed CONCRETE				A A A A A A A A A A A A A A A A A A A	CONC	
	0.30-0.40	ES					82.38	(0.30)		ROUND: Dark gre				burnt coal		GMG	
	0.60-1.00 -0.60-0.80	B ES					82.28	0.70		grey brown sandy wn grey silty fine S					× ·	GDU	
	- -						81.88	-(0.40) - 1.10	Light bio	wir grey siity iirie s	AND (GLACIA	L DEPOSITS	)		×	GDU	
	- 1.20 -1.20 -						61.00	-	Firm redo	dish brown mottled	grey slightly sa	andy CLAY (G	SLACIAL DEPO	OSITS)			
.03.GDT 11/12/14	- - - - 2.00	2.00 D					80.78	(1.10)								GDU	
	- - - -						80.28	(0.50)	Firm redo DEPOSI	dish brown, grey m TS)	ottled, slightly (	gravelly sandy	CLAY (GLAC	IAL		GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1	- - - - - - - - -							-	Trial Pit t	erminated at 2.7m	bgl						
) - S5(								Length	ı	Shoring/Support:			Water	Strikes	<b>'</b>		
ODFORD LC	<b> </b>	3						3 Width	.00m	None	Date	Time	Strike	Minutes	Standing	Rei	marks
LOG STANDARD WC	D C						B 1	1 Orientati degr	on ees from	Stability:	observed. No	ete at 2.7m bgl. radiological rea	No visual or olfa dings above bac upon completion.	kground recor	e of contamina	ition ater not	
08 WSP TP	Scale 1:25 Not mar						Il dimens dentificat	ions in		gs should be read	in accordance	with the provi	ded Key. Desc	riptions are	based on visi	ual and	

		<b> </b>	NS	P						TRIAL F	PIT LO	G		Hole No.	TP1	30	
	1:	<b>₩</b> 50-182	/SP The Q	uavs		F	Project							Sheet			
		M5 hone:	0 3SP	•	00	ľ	roject			Woodford	Aerodrome	е			1 of	1	
	Job No	7000	0443	30		C	Client			Harrow E	states Plc			Date	08-07- 08-07-	-14 -14	
	Contracto	r / Dr	iller		1	Meth	od/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)	Gro	und Leve	l (m AO	)D)
	H & C	Plan	t Hire	e Ltd			JO	CB 3C	X	S We	eston		389800.610 381472.430		82.3	300	
	SAMF	PLES	& TE	STS							STR	ATA					Install / Backfill
	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Desc	ription			Legend	Geology	,
	-						91.07	(0.33)		ROUND: Reinford	ced CONCRET	E				CONC	
	- - - - - - - - - - - - - - - -					81.97	- 0.33 - - - - - -(1.32)	MADE G	ROUND: Light bro sandstone cobbles	wn sandy angu s. Rare angular	llar fine to coa	arse GRAVEL nts.	of sandstone,		GMG		
3.GDT 11/12/14	- - - - 1.80 -1.80				80.65	- - - 1.65	Firm brov	wn slightly sandy, s inded medium to c	slightly gravelly oarse (GLACIA	CLAY with ra	re thin sandy p	partings. Grave					
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1.03.GDT 11/12/14					79.30	- - - - - - - - 3.00		erminated at 3m b	gl					GDU			
- COMBINED -100914 - UP TO DAT	-					-											
.0GS								Length		Shoring/Support:	Data	Time	Water		Ctondin	D.	marke
RDL								3	3.00m	None	Date	Time	Strike	Minutes	Standing	Rer	marks
ODFC	<b>—</b>		— 3 •			-		Width		-							
ARD WOO	A D						<b>∓</b> B 1		.00m	Stability:							
TP LOG STAND			С				<u> </u>		ion rees from north	Stable	observed. No	ete at 3m bgl. N radiological rea		tory evidence of kground recorde			tion
08 WSP	Sc	ale 1:2	25				dimens entificat		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are ba	sed on visi	ual and	

<b>WSP</b>			TRIAL PIT LO	G	Hol	e No. <b>TP131</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrom	e	She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 04-07-14 04-07-14
Contractor / Driller	Me	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
H & C Plant Hire Ltd		JCB 3CX	J Kinchington	E 389683.130 N 381571.830		86.730

PLES			_			Do-#	I		311	VATA				1	Inst Bac
Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	(Thick			Des	cription			Legend	Geology	/
ES	0				86.53	-(0.20)	coarse a	angular to subround	ed of various I	ithologies (TC	PSOIL).		1/ 7/1/	TS	
					86.33	-(0.20) 0.40	subroun	ded of various lithol	ogies. (GLAC	IAL DEPOSIT	S).		- <del></del>	GDU	
ES	1					(0.30)	Orange subangu	brown slightly silty s llar to rounded of va	slightly gravelly arious lithologi	/ medium SA es. (GLACIAL	ND. Gravel is DEPOSITS)	s fine to coarse	×	GDU	222
_		90			86.03		Stiff high	n strength reddish b	rown slightly g	ravelly sandy	friable CLAY.	Gravel is	0 X		
					85.73	F` '	Orange	brown fine and med	lium SAND (	ZI ACIAL DEP	POSIT)		- 0	GDU	
В					83.93	- (1.80) - (1.80) 	2.50 m b	ogl; becoming slight	ly clayey.					GDU	
						Length		Shoring/Support:			Water	Strikes			
	— 3			<b>—</b> ►			.00m	None	Date	Time	Strike	Minutes	Standing	Rei	mark
	<u>A</u>				7		.00m	Stability:							
C C					<u>*</u>	degr	ees from	Stable	Trial pit comp observed. No	lete at 2.8m bgl radiological rea	idings above ba	ckground recorde	of contamina ed. Groundwa	ater not	
	Type  ES  D	Type Old (Audd) ES 0 ES 1 D A A	Type (Audd)  ES 0  ES 1  B  A  A  A  A	ES 0	Type   (Zulyky)   ES   1   90   D   B   A   A   A   A   A   A   A   A   A	Type   C(Namate)   C(Namate)	Type	Type	Type Q & Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Type Q Q S O S O S O S O S O S O S O S O S O	Type D D D D D D D D D D D D D D D D D D D	Elev	Depth   Dept	Es	Page   Page

		V		P						TRIAL F	PIT LO	G		Hole N	No. <b>TP1</b> ;	32	
		50-182 M50 hone: 0	3SP	-	00		Project			Woodford	Aerodrome	Э		Sheet	1 of	1	
Job	No	7000	)443	30			Client			Harrow E	states Plc			Date	04-07- 04-07-		
	ntracto			e Ltd		Met	hod/Pla	nt Use		Logged By J Kinch	nington	E	ates (NGR) 389663.330 381487.490		round Leve		DD)
	SAMP	LES	& TE	STS	3						STR	ATA					Install /
D	epth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)	n		Desc	ription			Legend	Geology	Backfill
							85.38			T ETE (reinforced with	th 5mm rehar)				0 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	TARMAC CONC	
0.30		ES					85.23 84.93	(0.30)	MADE Gl subround of yellow	ROUND: Grey occ led GRAVEL of cli sandstone.	asionally brown	n and pale gre is lithologies v	ey sandy angu with frequent a	lar to Ingular cobb		GMG	
0.60		ES						-	Light brov	wn slightly gravelly ngular of various l	rfine SAND. Gr ithologies. (GLA	avel is mediu ACIAL DEPO	m and coarse SITS)	subrounded			
1.00	1.00 B							(1.50)								GDU	
4								-									
PLATE1.03.GDT 11/12/14	60				<u>‡</u>	83.43	(0.50)	Firm redo	dish brown mottled	grey sandy fria	ble CLAY. (G	SLACIAL DEPO	OSITS)		GDU		
ION.GPJ WSPETEMI						<u>-</u>	82.43	(0.50)	Reddish	brown clayey fine a	and medium SA	AND. (GLACIA	AL DEPOSITS	S)		GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1	3.00 B							-	Trial Pit o	complete at 3.00m	bgl						
SSO S			•	•	•	-		Length		Shoring/Support:			Water				
WOODFORD L	3 A						<b>T</b>	Width	3.00m	None	Date	Time	Strike 2.50	Minutes	Standing	Rer	marks
IP LOG STANDARD	D C						B 1 <u>¥</u>	Orientat deg	ion rees from	Stability:	observed. No	ete at 3.00m bg radiological rea	l. No visual or o dings above bac 2.50m bgl. Hole	kground reco	rded. Slight see		
08 WSP	Sca	ale 1:2	25				Il dimens dentifica		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are	based on visi	ual and	

	<b>/</b>	<b>NS</b> /SP	SP						TRIAL F	PIT LO	G		Hole No.	TP1	33	
	150-182 M5 ephone:	The C	-			Projec	t		Woodford	Aerodrom	е		Sheet	1 of	1	
Job No	7000	044	30			Client			Harrow E	states Plc			Date	04-07- 04-07-		
Contract	tor / Dr	iller			Met	hod/P	ant Use	d	Logged By			ates (NGR)	Grou	nd Leve	l (m AC	D)
H & (	C Plan	t Hir	e Lto	d			JCB 3C	X	J Kinch	nington		389584.120 381570.540		87.	680	
SAM	IPLES	& TE	EST	S						STR	RATA					Install / Backfill
Depth	Туре	PID (ppmV)	HSV	P.Pen	Water	Elev (mAO	Depth (Thick -ness)				cription			Legend	Geology	,
0.20	ES	0					(0.50)	MADE GF rootlets. C	ROUND: Long gra Gravel is fine to co	ss over dark b arse angular to	rown slightly o rounded of	gravelly fine SAN various lithologie	ID with s (TOPSOIL).		GMG	
-						87. <sup>2</sup>		MADE GF	ROUND: Yellowish	n grey and blad	ck fine and m	edium angular G	RAVEL of ash		GMG	
0.60							-		er with occasional rown occasionally 'S).				L			
1.00	.00 В						-(1.20)								GDU	
							-									
_						85.8	1.80		erminated at 1.80r	n bgl due to in	stability					1669
	85.8															
						1	Length		Shoring/Support:			Water St	rikes			
3 A						B 1	Width	3.00m	None Stability:	Date	Time	Strike 1.50	Minutes	Standing	Rei	marks
		С				J <u>▼</u>		ion rees from north	1.00m bgl; Trial pit collapse.	contamination	doned at 1.80 b	g due to instability. radiological reading at 1.50m bgl. Hole	rs ahove hackoi	ound recor	ded See	page

<b>WSP</b>		TRIAL PIT LO		Hole No. <b>TP134</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome		Sheet 1 of 1
Job No 70004430	Client	Harrow Estates Plc		04-07-14 04-07-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
H & C Plant Hire Ltd	JCB 3CX	J Kinchington	E 389414.930 N 381650.410	89.250

O/ (IVII)	LES	& IE	515							315	RATA					Inst Bac
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	cription			Legend	Geology	
0.10	ES						(0.50)	Grass ov coarse o	ver dark brown sligl f sandstone and va	ntly gravelly fir arious lithologi	e SAND with es (TOPSOIL)	rootlets. Grav	el is fine to			\$25555 \$4555
0.60	ES					88.75 88.45	(0.30)	Brown sl sandstor	ightly gravelly fine ne. (GLACIAL DEP	and medium S OSITS).	AND. Gravel	is coarse rour	nded of	0	GDU	
2.00	D		65			86.75	- - - - - - - - - - - - - - - - - - -	with rare sandstor 1.00 m b	dium strength redd cobbles. Gravel is ne. (GLACIAL DEP gl; gravel becomin	fine to coarse OSITS) g fine and med	subangular to	tly gravelly sa	ndy friable CLA	Y	GDU	
<b> </b>		— 3 A				<b>T</b>	Width	.00m	Shoring/Support: None	Date	Time	Water Strike	Strikes Minutes	Standing	Rei	mai
D		С			I	B 1 <u>▼</u>	Orientati degr		Stability: - Stable	observed. No	lete at 2.5m bal	idings above ba	Ifactory evidence of ackground recordern.	of contamina d. Groundw	ation ater not	

	<b> </b>		SP						TRIAL F	PIT LO	G		Hole No	TP1	35	
	150-182 M5 phone:	0 3SF	, ,			Project			Woodford	Aerodrom	ne		Sheet	1 of	1	
Job No	7000		30			Client			Harrow E	states Plc			Date	04-07- 04-07-		
Contract	or / Dr	iller			Met	hod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)	Gro	ound Leve	I (m AC	)D)
Н&С	C Plan	t Hir	e Lto	t		J(	CB 3C	X	S We	eston		389362.220 381687.050		88.	990	
SAM	PLES	& T	EST:	S						STF	RATA					Install Backfi
Depth	Туре	PID	TSV YW2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick			Des	cription			Legend	Geology	
		_ e	7 - 2	<u> </u>	5	(IIIAOD)	-ness)	Grass ove	er brown slightly sa	andy SILT with	n rootlets (TOF	PSOIL)		Z <sub>I 1</sub> X Z <sub>I I</sub>		200
- 20	F6					88.74	(0.25) 0.25		,	•	•	,		17 - 21 17	TS	
0.20	ES					00.14	- 0.20		ghtly silty fine SAN	ID (GLACIAL	DEPOSITS)			×		
-							(0.40)							× · · · ×	GDU	
0.60 -0.60	D ES					88.34	0.65		SAND (GLACIAL	DEPOSITS)				×		
0.70-1.20	В						(0.35)	Orey inic	ON THE COLN CONTE	DEI GGITG)					GDU	
_						87.99	1.00									
_							-	Brown fin	e and medium SA	ND (GLACIA	L DEPOSITS)					
-							-(0.40)								GDU	
_						87.59	1.40	Firm red I	brown slightly grav	elly CLAY wit	h some light g	rey mottling. Gr	avel is	<u>×o×</u>		
1.60	D						(0.30)		fine and medium s	andstone (GL	ACIAL DEPOS	SIIS)		× ×	GDU	
						87.29	1.70		vn slightly sandy C	LAY. (GLACI	AL DEPOSITS	)				
-							-								-	
-							-(0.80)								GDU	
-							-									
-							ļ									
2.50	D					86.49	2.50	Trial Pit te	erminated at 2.5m	bgl						
- - - - - - -							- - - - -									
-							Length		Shoring/Support:		1	Water S				
		_				ı	3	3.00m	None	Date	Time	Strike	Minutes	Standing	Rei	marks
		— 3 A			-	ł	Width									
D		•				B 1	1	.00m	Stability:	-						
		C	•			l ↓	Orientat	ion	<del>g.</del>	General Rer		I. No visual or olf	actory evidenc	e of contamin	ation	
			•				degi	rees from	Stable	observed, No	radiological rea	dings above back upon completion.	ground record	led. Groundwa	ater not	

			SP						TRIAL F	PIT LO	G		Hole N	TP1	36	
	150-182 M5 ephone:	038	Quays P			Project			Woodford A	Aerodrom	ne		Sheet	1 of	1	
Job No	700		130			Client			Harrow E	states Plc			Date	04-07- 04-07-		
Contract	or / Dr	ille	r		Met	thod/Pla	nt Use	d	Logged By		Co-Ordin	ates (NGR)	Gı	round Leve	I (m AC	DD)
H & 0	C Plan	t Hi	re Lt	d		JO	CB 3C	K	S We	eston		389374.730 381830.890		86.	810	
SAM	PLES	& T	EST	S					1	STF	RATA					Install Backfi
Depth	Туре	PID	(Vmdc	P.Pen	Water	Elev. (mAOD)	Depth (Thick			Des	cription			Legend	Geology	
-			= =	2 - 3			-ness) -(0.20)	MADE GR (TOPSOIL	OUND: Grass ov	ver brown slig	htly silty slight	ly gravelly fine S	AND.		MG	
0.20-0.90	В					86.61	0.20	MADE GR	OUND: Brown fin	e sand with ra	are brick frage	ments				
0.40-0.50	ES						-(0.40)								MG	
- -						86.21	0.60	POSSIBLE	E MADE GROUN	D: Brown fine	SAND					
- -						85.91	0.90	Firm grov	CLAY with sandy	pocketa (CLA	ACIAL DEDOS	ITC)			MG	
-							-	Fillingley	CLAT WITT Salluy	pockets (GLA	CIAL DEFOS	113)		<u></u>		
1.20	D D						-(0.60) -								GDU	
- 1.50-2.00	0-2.00 B					85.31	1.50	Light brow	n fine and mediur	n SAND with	rare cobbles	(CLACIAL DEP	ngitg)			
-							-	Light brow	Trime and media	ii o, avb waii	raic cobbics.	(OL/ (OI/ IL DEI	30110)			
							-									
-							(1.10)								GDU	
-							-									
-						84.21	2.60									
						01.21		Grey fine t	o medium SAND DEPOSITS)	with rare grav	el and sand s	ized coal in pato	hes.			
-						83.81	-(0.40) - 3.00							0	GDU	
-							- - - -	Trial pit co	mplete at 3m bgl							
- - -							-		-							
							Length	m	Shoring/Support:	Date	Time	Water S Strike	trikes Minutes	Standing	Re	marks
<b>-</b>							Width									
D	D A							m	Stability:							
		(	С			<u> </u>	Orientati		Unstable from 0.6m bgl	radiological re	olete at 3.0m bgl	. Slight hydrocarboackground record	on odour in Med. No Groun	Made Ground. ndwater encou	No untered. I	Hole

		<b>NS</b> /SP	P						TRIAL I	PIT LO	G		Hole No.	TP1	37	
	150-182 M5 ephone:	The C	-			Project	1		Woodford	Aerodrome	Э		Sheet	1 of	1	
Job No	700	044	30			Client			Harrow E	states Plc			Date	04-07- 04-07-		
Contract					Met	thod/Pla			Logged By			ates (NGR) 389109.300	Gro	und Leve		D)
	C Plan					J	CB 3C	X 	J Kinc	hington		I 381867.880		86.0	060	T
SAM	IPLES	1	_	_	<u> </u>		Depth	1		STR	ATA					Install / Backfill
Depth	Туре	OIIA (mdd)	HSV	P.Pen (kN/m2)	Water	Elev. (mAOD	(Thick -ness)	MADE GF	ROUND: Long gra	ass over dark br	ription own slightly	gravelly fine SAN	D with	Legend	Geology	, 5008:
0.10	ES					86.46	-(0.20) 6 0.20	rootlets. C	Gravel is fine to co _).	arse angular to	subrounded	of various litholo	gies.	1/ 1/1/	GMG	188 188
0.40	ES					86.16	(0.30)	of ash and	ROUND: Grey mo d various lithologi		ly coarse an	gular and subang	ular GRAVE		GMG	
0.60	ES						-		ROUND: Orange	brown fine to co	arse SAND.				<b>\</b>	
-							-								>	
-							(0.90)	1.00 m bg	ıl; 75mm diamete	r land drain.					GMG	
_								1.20 m bg	l; becoming claye	<b>Э</b> У					>	
-						85.26	1.40	Firm redd	ish brown slightly	sandy slightly g	ravelly CLA	Y. Gravel is fine to	coarse			
1.50	D						(0.40)	angular to	subrounded of v	arious lithologie	s. (GLACIAL	DEPOSITS).			GDU	
1.80 1.80 1-1.80	B ES					84.86	1.80	Reddish b	prown gravelly fine fine to coarse rou	e to coarse SAN nded. (GLACIA	ID with occa L DEPOSITS	sional rounded co S)	bbles.			
							-(1.20)								GDU	
							-									
						83.66	3.00									
								Trial pit co	omplete at 3.00m	bgl.						
							_									
5 2 2							-									
-							-									
							<u> </u>									
							Length	m	Shoring/Support:	Date	Time	Water Strike	ikes Minutes	Standing	Rei	marks
					-	+			None							
		Α				T	Width	m								
D						В			Stability:	General Rem						
		С							Unstable from 2.7m bgl	observed. No i	radiological rea	gl. No visual or olfac adings above backg I upon completion.				

	<b></b> \	<b>NS</b> /SP	P			TRIAL PIT LOG								Hole No. TP138					
	150-182 M50 ephone:	The C	-	00	F	Projec	t		Woodford	Aerodrom	e		Sheet	1 of	1				
Job No	7000	044	30		(	Client		Harrow Estates Plc					Date 05-08-14 05-08-14						
Contrac	tor / Dr	iller			Meth	nod/Pla	ant Use	d	Logged By		Co-Ordir	nates (NGR)	Grou	nd Leve	l (m AC	)D)			
Н&	C Plan	t Hir	e Ltd			J	CB 3C	<		nington	E	E 389541.100				,			
SAM	IPLES	& TE	ESTS	3						STR	ATA					Install /			
Depth	Туре	PID ppmV)	HSV kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOE	Depth (Thick			Desc	cription			Legend	Geology				
0.10	ES			,		85.2	-ness) -(0.20)	MADE GR	ROUND: Crops ov	ver brown grave ounded of vario	elly fine SAN us lithologies	D with rootlets. Gr s. (TOPSOIL)	avel is fine to		GMG				
-						05.2	- 0.20	MADE GR	ROUND: Yellow b	rown sandy me lar sandstone.	edium and co	arse angular GRA	VEL with						
							(0.40)		and the control of th						GMG				
0.60	D					84.8	5 0.60	Dark brov	vn and black pseu	idofibrous to ar	norphous PE	AT. (SUPERFICI	AL	<u> </u>	4				
-0.60	ES						-	Used Logged By Co-Ordinates (NGR) Ground Level (m AOD)  3 3CX J Kinchington E389541.100 N 381862.970 85.450  STRATA  Depth Depth Carrier of Co-Ordinates (NGR) E 389541.100 N 381862.970 85.450  STRATA  Description Legend Geology  MADE GROUND: Crops over brown gravelly fine SAND with rootlets. Gravel is fine to coarse subangular to subrounded of various lithologies. (TOPSOIL)  MADE GROUND: Yellow brown sandy medium and coarse angular GRAVEL with occasional cobbles of angular sandstone.  GMG  Dark brown and black pseudofibrous to amorphous PEAT. (SUPERFICIAL DEPOSITS)  2.60  Soft light greyish blue sandy CLAY with occasional organic matter. (SUPERFICIAL DEPOSITS)											
-							-												
F							F												
-							ţ												
-							-												
-							(2.00)												
_							(=133)								1				
-							ļ												
-							-								1				
-							ļ												
_							}							1/ 1/1/					
-							F												
2.90						82.85	5 2.60						ERFICIAL						
							(0.30)			inclusions of w	ood				SUPD				
2.90	В					82.5	5 2.90	Trial pit a	bandoned at 2.90	m bgl due to in	stability.								
-							-												
							Length		Shoring/Support:			Water Str		1		<u>'</u>			
							3	00m None		Date	Time	Strike	Minutes	Standing	Rei	marks			
		— 3 А			-		Width												
D						Б Т В 1	1	.00m	Stability:	-									
		С	:			<u>,</u>		on ees from	Unstable from 2.60m bgl	observed. No	lete at 2.90m b radiological re	ngl. No visual or olfac adings above backg I upon completion.	ctory evidence or	of contamir . Groundwa	nation ater not				

	NS	P							Hole No. TP139								
	150-182 M5 phone:	0 3SP	,	00	F	Project Woodford Aerodrome								Sheet 1 of 1			
ob No	7000	0443	30		(	Client Harrow Estates Plc								Date 05-08-14 05-08-14			
ontract	or / Dr	iller			Meth	nod/Pla	nt Use	d	Logged By		Co-Ordina	ites (NGR)	G	Ground Level (m AOD)			
Н&С	Plan	t Hire	e Ltd			J	CB 3CX	<	J Kincl	nington	E 389559.200 N 382057.710			86.150			
SAM	PLES					STRATA											
Depth	Туре	PID (ppmV)	HSV kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				Des	cription			Legen	d Geolog	у	
.10	ES			-			-ness) -(0.20)	rootlets.	GROUND: Brown a Gravel is fine to co	nd black slight parse angular c	ly gravelly ashy of various.	/ fine and medi	ium SAND	with	GMG		
.30	ES					85.95	(0.30)	MADE G	ROUND: Light bro inker and brick with	wn sandy fine n frequent cobl	to coarse anguales of yellow a	ular to subroun angular sandsto	ded GRAV one.	EL X	GMG		
						85.65	0.50	Firm me	Firm medium strength orange brown and light grey slightly sandy slight CLAY. (GLACIAL DEPOSITS)				ly gravelly	-0-			
							(0.70)	,		·					GDU	GDU Z	
00	D		62			84.95											
							4.95 1.20	Firm me	edium strength reddish brown slightly gravelly CLAY. Gravel is a ded of sandstone and coal. (GLACIAL DEPOSITS)				angular to				
							-(1.20)								GDU		
			61				_									2222	
																\$25.50 \$25.50	
50	В				<u></u>	83.75	2.40	Brown sl	lightly silty fine SAN	ND. (GLACIAL	DEPOSITS)			× .			
							(0.60)							× × ×	GDU		
						83.15	3.00	Trial pit	complete at 3.00m	bgl.				× · · · ×		2	
							Length		Shoring/Support:	T		Water S	Strikes				
							_	.00m	None	Date	Time	Strike	Minutes	Standing	g Re	emar	
<b>-</b>		— 3 А			-	_	Width		_			2.40					
D						B 1	1	.00m	Stability:	-							
		С				<u>*</u>	Orientati degr	on rees from	Unstable from observed. No radiological readings above backg				kground reco	rded. Ground	water		

		WS	SP			TRIAL PIT LOG									TP140				
	150-182 M5 phone:	0 3SP 0161	, ,	00	ı	Project Woodford Aerodrome								Sheet 1 of 1					
lah Na	Fax:											Da	1-						
Job No	700	044	30		(	Client			Harrow E	Estates Plc				Date 03-07-1 03-07-1		14 14	4		
Contracto	or / D	riller			Meth	nod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)		Ground Level (m AOD)					
H & C	Plar	t Hir	e Ltd			J	CB 3CX	<	S Weston E 389834.290 N 382075.850					85.220			,		
SAMI	PLES	& TI	ESTS	3		STRATA											Instal Backt		
Depth	Туре	PID	HSV (kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				Desc	cription				Legend	Geology	,		
							-ness)	Hay over	brown slightly clay	yey slightly san	dy SILT (TOP	SOIL)			7/1/2				
							(0.30)								1/ 2/1/ 1 2/1/ 1/1/	TS			
0.30-0.40	ES					84.92 84.82		Orange b	rown fine and med	dium SAND (GI	LACIAL DEP	OSITS)			1.2.2.2	ALV			
							-(0.20)	Firm grey	sandy CLAY (GL	ACIAL DEPOS	ITS)					ALV			
0.60-0.70	ES					84.62	0.60	Grey grav	elly fine to mediu	m SAND with o	ccasional len	ses of clay. Gr	avel is		0				
0.70-0.90	В						(0.40)	subround	ed medium to coa	rse grey sands	tone. (GLACI	AL DEPOSITS	5)			ALV			
						84.22	ļ` <i>^</i>								0				
						04.22	1.00	Firm brow	vn mottled grey sa	ndy CLAY (GL	ACIAL DEPO	SITS)							
1.10	D						-												
							(0.60)									ALV			
						83.62	1.60	Firm grey	, slightly mottled b	orown CLAY (G	LACIAL DEP	OSITS)							
							(0.35)			•		ŕ				ALV			
1.90	D					83.27	1.95								==				
2.00	В								ntly clayey SILT, w h  (GLACIAL DEP		s and rare pie	eces of wood be	ecoming	clayey	× × ×				
							-								× × ×				
							(0.75)								* * *	ALV			
							[								× ×				
						82.52	2.70								× × ×				
						02.02		Stiff grey	CLAY (GLACIAL	DEPOSITS)									
2.80	D						-												
-							- (0.80)									ALV			
							ţ												
3.50	D					81.72	3.50	Trial Dit +	erminated at 3.5m	hal					<u> </u>		1993		
							-	ו וומו דונ נפ	emmateu at 3.9M	υgi									
							-												
			<u> </u>				Length	<u> </u>	Shoring/Support	T		10/-1	Stril: 0.5				<u> </u>		
							Length 3	.00m	Shoring/Support:	Date	Time	Water Strike	Minute	es	Standing	Re	marks		
<b> -</b>		— 3			-			,	None										
		Α				<b>T</b>	Width												
D						↑ B 1	1	.00m	Stability:										
		С	;			<u>*</u>	Orientati	on			ete at 3.5m bgl.	. No visual or olfa							
		-					degr	ees from	Stable	observed. No	radiological rea	idings above bac upon completion	kground re						
	nalo 1:	2F		Note	es: Al	l dimens			gs should be read	in accordance	with the provi	ided Key. Desc	riptions a	are base	ed on visu	al and			
Si	ale 1:	20				dentificat							, ,,,,,,,						

	150-	W\$	he Qu				Project			TRIAL F	PIT LO	G		Hole		P14	41	
Te	elepho	ne: 0 Fa	1618	86 24	00					Woodford	Aerodrome	е				1 of	1	
Job No		000	443	80			Client			Harrow E	states Plc			Dat	0	3-07- 3-07-		
Contrac	ctor /			: Ltd		Meti	hod/Pla	nt Use		Logged By	eston	E	ates (NGR) 389737.510 381965.820		Ground	Leve 85.2	•	D)
SAI	MPL	ES 8	L TE	STS	 }						STR							Install /
Depth	n T	ype	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Desc	ription				Legend	Geology	Backfill
-							04.00	(0.30)	Hay over	brown slightly clay	yey slightly sand	dy SILT (TOP	PSOIL)		v.	7 1/2 /1 /2 2 1/2 /1 /2 2 1/2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /	TS	
-							84.90	-(0.20)		ty fine SAND (GLA	ACIAL DEPOSI	TS)				× ×	ALV	
0.50-0.80 -0.50-0.80		D ES						-(0.40)		wn fine and mediu	m SAND (GLA	CIAL DEPOS	iTS)				ALV	
1.00-1.50 -1.00		B D					84.30	0.90 - - -(0.60)	Light gre	y fine SAND beco	ming silty fine s	and with dep	th (GLACIAL D	EPOSIT	S) (		ALV	
							83.70	1.50		purplish brown CL	AY (GLACIAL	DEPOSITS)			) ) )	× × × × × × × × × × × × × × × × × × ×	ALV	
EMPLATE1.03.GDT 11/12/14		D					83.20	2.00	Very soft	brown silty CLAY.	Damp, becomi	ing silt with do	epth (GLACIAL	DEPOS	ITS)	× × × × × × × × × × × × × × × × × × ×		
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED-100914 - UP TO DATE VERSION GFU WSPETEMPLATE1.03.GDT 11/12/14  C  C  C  C  C  C  C  C  C  C  C  C  C		D						(1.70)							>	X X X X X X X X X X X X X X X X X X X	ALV	
COMBINED - 100							81.50	3.70	Trial Pit t	erminated at 3.7m	bgl				}	<u> </u>		1668
Ses -			ļ		<u>'                                    </u>	•		Length	l .	Shoring/Support:			Water S					
ARD WOODFORD LC			– 3 - A			<b>&gt;</b>	<b>∓</b> B 1	Width	.00m	None Stability:	Date	Time	Strike	Minute	s St	tanding	Rei	marks
TP LOG STAND			С				<u> </u>		rees from	Stable	observed. No	ete at 3.7m bgl. radiological rea	No visual or olfa dings above back upon completion.					
08 WSF	Scale	1:25	5				Il dimens dentificat		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desci	iptions a	are based	on visi	ual and	

	<b>/</b>	<b>NS</b> /SP	P						TRIAL F	PIT LO	G		Hole No.	TP1	42	
	150-182 M5 ephone:	The Q 0 3SP	•	00	ı	Project			Woodford	Aerodrom	e		Sheet	1 of	2	
Job No	7000	0443	30		(	Client			Harrow E	states Plc			Date	30-07- 30-07-		
Contract	or / Dr	iller			Meth	nod/Pla	nt Use	d	Logged By			ates (NGR)	Grou	nd Leve	l (m AO	D)
H & 0	C Plan	t Hire	e Ltd			J	CB 3C	X	J. Wa	atson		389821.090 382644.140		89.6	660	
SAM	PLES		1	_			Daneth	I		STR	ATA					Install / Backfill
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Desc	cription			Legend	Geology	
0.10-0.20	ES	0					-(0.40)	MADE GF to coarse	ROUND: Grass ov subangular of sar	ver dark brown ndstone with ra	slightly claye re ash and cl	y gravelly SAND. inker. (TOPSOIL)	Gravel is fine		GMG	
-						89.26	0.40	MADE G	ROUND: Firm med	dium strenath a	orange brown	mottled arev slig	htly sandy			
0.50-1.00 -0.50 0.50-0.60	B D ES	0	50 42 52				(0.70)	slightly gr	avelly CLAY with of various lithologic	occasional poc	kets of ash. (	Gravel is fine to m	nity sality ledium		CMG	
1.00	D					88.56	1.10		um to high strengt	th dark reddish	brown mottle	ed arev CLAY Gr	avel is fine to			
1.30	D						-	coarse of	various lithologies	s. (GLACIAL D	EPOSITS)	a groy ob tr. or	aver is line to			
-			62												-	
- : :			78				-(1.40)								GDU	
-			100				-									
2.40	D ES		70			87.16	2.50		rown slightly claye	ay fine and med	tium SAND (	GLACIAL DEPO	SITS)			
2.30-2.00							-	Orange D	Town Siightly Claye	y line and med	ium SAND. (	GLACIAL DEFO	3113)			
- -							-								-	
							(1.50)								GDU	
-							-									
3.80-4.00	ES					25.	<u> </u>									
		<u> </u>		<u> </u>		85.66	4.00 Length		Shoring/Support:			Water Str	ikes	<u> </u>		
		- 2.6 ^	S —		-		2 Width	2.60m	None	Date	Time	Strike	Minutes	Standing	Rer	marks
D		<u>A</u>				B 0.6		).60m	Stability:	0.000	- auto-					
		С				<u>*</u>		rees from	Stable	observed. No	ete at 4.0m bgl radiological rea	. No visual or olfact adings above backg upon completion.	ory evidence of round recorded	contamina I. No Groun	ition dwater	

ob No	50-182 M50 ohone: 0	SP The Qu							TRIAL F	11 LO	G			IF	142	
ob No	ohone: ( F	3SP	ays		F	Project			\\\	A I			She			
		0161 88 ax:	36 240	00					Woodford	Aerodrom	e 				of 2	
ontracto	7000	)443	0			Client			Harrow E	states Plc			Dat	30-	07-14 07-14	
	or / Dri	ller			Meth	nod/Pla	nt Use	d	Logged By			ates (NGR)		Ground Le	evel (m A	OD)
H & C	Plant	Hire	Ltd			J	CB 3CX	(	J. Wa	atson		389821.090 382644.140			89.660	
SAMF				-			Depth			STR	ATA					Insta Back
Depth	Туре	PID (ppmV)	HSV KN/m2	P.Pen kN/m2	Water	Elev. (mAOD)	(Thick			Desc	cription			Leg	end Geolog	ıy
							-ness) -	Trial pit o	omplete at 4.0m b	gl						
							-									
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	1						Length	1	Shoring/Support:			Water	Strikes			1
							2	.60m	None	Date	Time	Strike	Minute	s Stand	ling R	emark
-		- 2.6			-				None							
		Α				<b>T</b>	Width									
D					ı	Т В 0 <u>.</u> 6	0	.60m	Stability:							
		С				<u>*</u>	Orientati	on		General Rem		. No visual or olf	actory evide	ence of contai	mination	
		J						ees from	Stable	observed. No	radiological rea	dings above bac upon completion	kground re			
								north				,				

		<b>NS</b> /SP	P						TRIAL F	PIT LO	G		Hole No.	TP14	13	
	150-182 M5 ephone:	The Q	-	00	Р	roject			Woodford	Aerodrom	е		Sheet	1 of	1	
Job No	7000	)443	30		С	lient			Harrow E	states Plc			Date	30-07- 30-07-	14 14	
Contract	or / Dr	iller		N	/leth	od/Pla	nt Use	d	Logged By		Co-Ordin	ates (NGR)	Grou	ınd Level	(m AO	D)
H & 0	C Plan	t Hire	e Ltd			JO	CB 3CX	K	J. Wa	atson		389805.250 381757.340		85.7	770	
SAM	PLES	& TE	STS							STF	RATA					Install / Backfill
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				Desc	cription			Legend	Geology	
0.10-0.20	ES	0				05.07	-ness) - (0.50)	MADE G medium a	ROUND: Brown sl angular of various	ightly clayey sl lithologies with	ightly gravelly rare brick.	SAND. Gravel i	s fine and		GMG	
0.50-0.60	ES	0	90			85.27	-	fine and r	strength brown m medium rounded to of grey fine and me TS)	o subrounded	of various litho	ologies with occa	asional			
1.00	D		70			84.17	(1.10)								GDU	
- - 1 - 2.00	D		40 30			83.57	- -(0.60) - - 2.20	Soft local medium i	lly firm low strengtl rounded and subro	h reddish brow ounded of varic	n slightly grav ous lithologies	elly CLAY. Gra . (GLACIAL DEF	evel is fine and		GDU	
							- - - - - - - - - - - - - - - - -	Trial pit c	complete at 2.2m b	gl						
							Length		Shoring/Support:			Water S				
		– 2.8 <u>A</u>			<b>→</b>	3 0.6	Width	.80m	None Stability:	Date General Rem	Time	Strike	Minutes	Standing	Ren	marks
		С						rees from	Stable	Trial pit comp observed. No	lete at 2.2m bgl radiological rea	. No visual or olfactions above back upon completion.	ctory evidence or ground recorded	f contamina I. No Groun	tion dwater	

			WS	P						TRIAL F	PIT LO	G		Hole No	TP14	14	
		150-182 M5 ephone:	0 3SP	-	00		Project			Woodford	Aerodrom	e		Sheet	1 of	1	
	Job No	700	0443	30			Client			Harrow E	states Plc			Date	03-07- 03-07-		
	Contract	or / D		e Ltd		Meti	hod/Pla	int Use		Logged By	eston	E	ates (NGR) 389676.710 381769.740	Gro	und Level 85.3		DD)
	SAM	PLES	& TF	STS	 }						STR						Install /
	Depth	Туре	1		P.Pen (kN/m2)	Water	Elev. (mAOD					cription			Legend	Geology	Backfill
	0.00-0.40	ES					84.98	-ness) - -(0.40)	Hay over	dark brown silty fii	ne SAND with i	rootlets (TOP	SOIL)		1/2 1/1/2 1/1/2 1/2 1/2 1/2 1/2 1/2 1/2	TS	
	0.40-0.60	ES					04.90	-(0.20)	Light brov	vn fine and mediu	m SAND with o	occasional thir	n (<10mm) pea	t partings	<u> </u>	ALV	
	- - -						84.78		`	vnish grey fine and	d medium SAN	D (GLACIAL	DEPOSITS)				
	0.90-1.50  - - -	В						- -(1.00) - -								GDU	
2/14	- - -						83.78	-(0.40)	Light orar sandstone	nge brown fine gra e (GLACIAL DEPO	velly, SAND. G OSIT)	Gravel is round	ded fine and me	edium gravel c	o	GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14	-							-	Trial Pit te	erminated at 2m b	gl						
- S90		•			•	•		Length		Shoring/Support:	5.		Water S		0, "		
OODFORD L	<del> </del>		— 3 A			-		3 Width	.00m	None	Date	Time	Strike	Minutes	Standing	Rei	marks
NDARD W	D						B 1	1	.00m	Stability:	General Rem						
TP LOG STA			С						ees from north	Stable	No radiologica		lo visual or olfact e background re on.				
<b>18 WS</b>	s	cale 1:	25				II dimens dentifica		metres. Log	gs should be read	in accordance	with the provi	ded Key. Desc	riptions are ba	ised on visu	al and	

<b>WSP</b>		7	TRIAL PIT LOC		Hole	TP145
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Dat	30-07-14 30-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
H & C Plant Hire Ltd		JCB 3CX	J. Watson	E 389657.890 N 382547.240		90.510

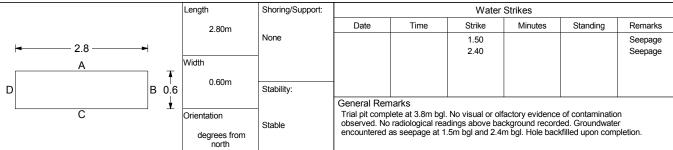
	LES						P			515	RATA				1	Inst Bac
Depth	Туре	PID (bpmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	cription			Legend	Geology	,
0.10-0.20	ES	0				90.26	(0.25)	Grass ov medium	rer dark brown sligh subangular of vario	ntly clayey slig ous lithologies	htly gravelly S (TOPSOIL)	AND. Gravel	s fine and	1/ 1// 1//	TS	
0.30-0.40	ES	0				90.26	-	Stiff high fine and DEPOSI	strength dark orar medium rounded a	nge brown sligl and subrounde	ntly sandy slig d of various lit	htly gravelly ( hologies. (GL	CLAY. Gravel is ACIAL	0		
0.50	D		70				(0.75)	DEI OOI	10)					-0-	GDU	
			96				- -									
1.00-1.50	В					89.51	1.00	Orange l	orown medium SAN	ND. (GLACIAL	DEPOSITS)			-0		
	_						- - - -	o.ago			<b>32</b> . 66.16,					
							(1.50) - - - - -								GDU	
						88.01	2.50	Trial pit o	complete at 2.5m b	gl						
							Length		Shoring/Support:			Water	Strikes			<u> </u>
<b> </b>		- 2.8	<b>:</b> ——		<b></b>			80m	None	Date	Time	Strike	Minutes	Standing	Rer	mark
D		<u>A</u>				<b>∓</b> B 0.6	Width 0	60m	Stability:	-						
		С				<u> </u>	Orientation degree	on ees from	Stable	observed. No	lete at 2.5m bal.	dings above ba	factory evidence o ckground recorde n.	f contamina d. No Grour	tion dwater	

				NS	P						TRIAL F	PIT LO	G		Hole	No. <b>TP1</b> 4	46	
		15 Teleph	0-182 M50 one: 0	3SP	•	400		Project			Woodford	Aerodrom	e		Shee	t 1 of	1	
	Job N		7000	)443	30			Client			Harrow E	states Plc			Date	03-07- 03-07-	14	
	Contr	actor			e Lto		Met	hod/Pla	int Use		Logged By	eston	E	ates (NGR) 389722.540 381871.350	)	Ground Level		DD)
	S/	AMPI	LES	& TE	STS	 S						STF	 RATA					Install /
	Dep				т —	1	Water	Elev. (mAOD				Desc	cription			Legend	Geology	Backfill
	- - -								-ness) - _(0.35)	Hay over	brown slightly clay	yey slightly san	dy SILT with r	ootlets (TOPS	SOIL)	1/2 1/2 1/2 1/2 1/2 1/2	TS	
	- 0.40 - 0.50-1. - - -	.00	ES B					85.52	(1.00)		r locally sandy CLA	AY (GLACIAL I	DEPOSITS)			X X X X X X X X X X X X X X X X X X X	GDU	
	1.40 1.50		ES D					84.52 84.27	_(0.25)	Firm brov	vn grey mottled sa		ACIAL DEPO	SITS)		× × × × × × × × × × × × × × × × × × ×	GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION. GPJ WSPETEMPLATE1.03.GDT 11/12/14	- - - - - - - - - - - - - - - - - - -							83.87	-(0.40)		erminated at 2m b	gl					GDU	
) - S9C					-				Length		Shoring/Support:			Water		<u>'</u>		
<b>IRD WOODFORD LC</b>	D			— 3 A				Т В 1	Width	.00m	None Stability:	Date	Time	Strike	Minutes	Standing	Rei	marks
TP LOG STANDA				С				<u>↓</u>		rees from	Stable	No radiologica	lete at 2m bgl. N	e background re		e of contamination		
08 WSP		Sca	le 1:2	25				II dimens dentifica		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are	e based on visu	ual and	

## Quay 2 The Quay 50 3SP	Quays P 886 2400 130 	Meth	Client  Client  JC  Elev. (mAOD)  86.62	Depth (Thick -ness) (0.40) - 0.80 - (0.40) -	MADE GR rootlets. ( MADE GR sandstone 0.60 m bg Brown ora subangula	Harrow Es  Logged By  J Kinch  ROUND: Grass over TOPSOIL).  ROUND: Brown slie  It; 200mm diameter ar to subrounded output of the subrounded output	states Plc  sington  STRA  Descr er brown slightly  ghtly clayey slig er concrete boul  lly fine and med of various litholo	Co-Ordinate E 38 N 38 ATA  ATA  iption y gravelly fine a  htly gravelly SA  der  lium SAND. Gragies. (GLACIAL	and medium  AND of brick	SAND with ceramic and coarse	e 04-0 04-0 Ground Level 8 Legel th	8-14 8-14	Insta Back
Oriller  Int Hire L  S & TES'  Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	re Ltd	Meth	Elev. (mAOD)	Depth (Thick -ness) (0.40) - 0.80 - (0.40) -	MADE GR rootlets. ( MADE GR sandstone 0.60 m bg Brown ora subangula	Logged By  J Kinch  ROUND: Grass over TOPSOIL).  ROUND: Brown slie  I; 200mm diameter ange slightly grave ar to subrounded of	Descr er brown slightly ghtly clayey slig er concrete boul	E 38 N 38  ATA  iption  y gravelly fine a  thtly gravelly SA  der  lium SAND. Gra gies. (GLACIAL	and medium  AND of brick	SAND with ceramic and course	04-0 04-0 Ground Lev  8 Lege th	8-14 vel (m A 7.020  GM  GM  GDI	Insta Back
S & TES'  G (A (A (A) A) SH	re Ltd		Elev. (mAOD)  86.62	Depth (Thick -ness) (0.40) - 0.80 - (0.40) -	MADE GR rootlets. ( MADE GR sandstone 0.60 m bg Brown ora subangula	J Kinch  ROUND: Grass over TOPSOIL).  ROUND: Brown slie  It; 200mm diamete	STRA  Descr er brown slightly ghtly clayey slig er concrete boul lly fine and mec of various litholo	E 38 N 38  ATA  iption  y gravelly fine a  thtly gravelly SA  der  lium SAND. Gra gies. (GLACIAL	and medium  AND of brick	SAND with ceramic and coarse	Ground Leve 8	GMU GDI	Insta Back
S & TES G led ()(mdd))	ESTS	Water	Elev. (mAOD) 86.62	Depth (Thick -ness)(0.40) - 0.40(0.40)(0.40)(0.40)	MADE GR rootlets. (  MADE GR sandstone 0.60 m bg  Brown ora subangula	ROUND: Grass over TOPSOIL).  ROUND: Brown slipe and the substitution of the substituti	STRA  Descr er brown slightly ghtly clayey slig er concrete boul lly fine and mec of various litholo	N 38 ATA  iption  y gravelly fine a  httly gravelly SA  der  lium SAND. Gra gies. (GLACIAL	and medium  AND of brick	ceramic :	Lege	GM4	G G G
Old (Amdq)		Water	86.62 86.22	(Thick -ness) - (0.40) - (0.40) - (0.40) - (0.40) - (0.40)	MADE GR sandstone 0.60 m bg Brown ora subangula	ROUND: Brown slipe I; 200mm diamete Inge slightly grave ar to subrounded o	Descrier brown slightly ghtly clayey slightly clayey slightly concrete bould lity fine and mediators of various lithological stress.	iption  y gravelly fine a  htly gravelly SA  der  lium SAND. Gra gles. (GLACIAL	AND of brick avel is fine to L DEPOSITS	ceramic :	and	GM <sup>1</sup>	G G G
	(KN/m2)	Water	86.62 86.22	(Thick -ness) - (0.40) - (0.40) - (0.40) - (0.40) - (0.40)	MADE GR sandstone 0.60 m bg Brown ora subangula	ROUND: Brown slipe I; 200mm diamete Inge slightly grave ar to subrounded o	er brown slightly ghtly clayey slig er concrete boul lly fine and med of various litholo	y gravelly fine a httly gravelly SA der lium SAND. Gra gies. (GLACIAL	AND of brick avel is fine to L DEPOSITS	ceramic :	and	GM <sup>1</sup>	G G G G G G G G G G G G G G G G G G G
			86.62	-ness) - (0.40) - (0.40) - (0.40) - (0.40) - (0.40)	MADE GR sandstone 0.60 m bg Brown ora subangula	ROUND: Brown slipe I; 200mm diamete Inge slightly grave ar to subrounded o	ghtly clayey slig er concrete boul lly fine and med of various litholo	htly gravelly SA der lium SAND. Gra gies. (GLACIAL	AND of brick avel is fine to L DEPOSITS	ceramic :	and	GM4	G 6000
		-	86.22	- -(0.40) - 0.80 - -(0.40)	o.60 m bg  Brown ora subangula	e il; 200mm diamete ange slightly grave ar to subrounded c	er concrete boul	der lium SAND. Gragies. (GLACIAL	avel is fine to	o coarse		GDI	
				- <del>(</del> 0.40)	subangula	ar to subrounded o	of various litholo	gies. (GLACIAL	L DEPOSITS	o coarse §)		GDI	
		-	85.82	- 1.20 - - - -	Grey beco	oming brown claye	ry fine SAND. (0	GLACIAL DEPO	OSITS)		F . 1	2	
			83.82	- -(2.00) - - - - - - - - - - - -	Trial pit co	omplete at 3.20m t	bgl.					GDI	
-3-A	Α		B 1 <u>↓</u>	3. Width	.00m	Stability:	Trial pit comple	te at 3.20m bgl. N	Strike	Minutes	dence of contar	nination	Remarks
		A	A C	3	B 1 Width C Orientati	Length 3.00m  B 1  Width  1.00m	Trial pit complete at 3.20m  Trial pit complete at 3.20m  Shoring/Support:  None  Width  1.00m  Stability:  Orientation degrees from	Trial pit complete at 3.20m bgl.  Length 3.00m Shoring/Support: Date  None  Width 1.00m Stability:  General Rema Trial pit complete at 3.20m bgl.  Orientation degrees from  Stable	Trial pit complete at 3.20m bgl.    C	Trial pit complete at 3.20m bgl.  Length 3.00m Shoring/Support: Date Time Strike  Date Time Strike  Orientation Orientation degrees from  Stable Stable Shoring/Support: Date Time Strike  Final pit complete at 3.20m bgl. No visual or off observed. No radiological readings above backencountered. Hole backfilled upon completion.	Trial pit complete at 3.20m bgl.  Length 3.00m  Shoring/Support: None  Date Time Strike Minutes  Date Minutes  Date Time Strike Minutes  Corientation Gegrees from north  Stabile  Stable  Stable  Stable  Stable  Stable  Stable  General Remarks Trial pit complete at 3.20m bgl. No visual or olfactory evic observed. No radiological readings above background reencountered. Hole backfilled upon completion.	Trial pit complete at 3.20m bgl.  Length 3.00m None  Shoring/Support:  None  Date Time Strike Minutes Standin  Standin  Orientation degrees from north  Stable Stable  Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on v	Trial pit complete at 3.20m bgl.    C

<b>WSP</b>		7	TRIAL PIT LOC		Hole	e No. <b>TP148</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Dat	te 31-07-14 31-07-14
Contractor / Driller	Me	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
H & C Plant Hire Ltd		JCB 3CX	J. Watson	E 389803.270 N 382658.590		89.970

SAMP	LES	& TE	STS	;						STI	RATA					Insta Back
Depth	Туре	(Amdd)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				Des	cription			Legend	Geology	
0.10-0.20	ES	0				89.67	(0.30) - 0.30		ROUND: Grass ov ium subangular of						GMG	
0.40-0.50 0.50	ES D	0	42 40 52		1	89.07	- (1.20) 	PROBAE grey sligh lithologie	BLE MADE GROUI tity sandy slightly g s.	ND: Firm med gravelly CLAY	ium strength I Gravel is fine	ight orange br	own mottled inded of various	XX	CMG	
					<u>*</u>	88.47 88.27	-(0.20)		c redish brown mot				•		GDU	
_ 2.00	D		110			88.17	1.80	rounded Stiff high pockets (	ayey slightly gravel of various lithologic strength reddish b (10cm) of medium thologies(GLACIAI	es. (GLACIAL rown slightly s and coarse sa	DEPOSITS) sandy slightly and. Gravel is	gravelly CLAY	with occasional		GDU	
			120		<u>2</u>		(1.10)							0	GDU	
2.80	D ES					87.07	(0.50)	Orange b	orown slightly claye	y fine and me	dium SAND. (	GLACIAL DE	POSITS)		GDU	
						86.57		Trial pit o	complete at 3.8m b	gl						DU
			•	•	•		Length		Shoring/Support:			Water	Strikes			•
<b>-</b>		- 2.8 A	3 —		<b>&gt;</b>	Ŧ	Width	80m	None	Date	Time	Strike 1.50 2.40	Minutes	Standing	Se	marks epage epage
D		С				B 0.6 <u>▼</u>	Orientati degr	on ees from	Stability:	observed. No	olete at 3.8m bg o radiological rea	adings above ba	factory evidence of lockground recorded. m bgl. Hole backfille	Groundwa	ater	
Sca	ıle 1:2	5				Il dimens dentificat		metres. Lo	gs should be read	in accordance	with the prov	ided Key. Des	criptions are base	ed on visu	ual and	



<b>WSP</b>		-	TRIAL PIT LOC	3	Hole	TP149
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Dat	04-08-14 04-08-14
Contractor / Driller	Me	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
H & C Plant Hire Ltd		JCB 3CX	J Kinchington	E 389804.620 N 381887.470		85.770

SAMF	1			_	_	_	Depth				RATA					Bad
Depth	Туре	PID (ppmV	HSV (kN/m2	P.Pen (kN/m2)	Water	Elev. (mAOD)				Des	cription			Legend	Geology	/
).10	ES	0					(0.50)	Grass ov coarse ro	er dark brown slig unded to subangu	htly gravelly fir ular of various	ne SAND with lithologies (TC	rootlets. Grav PSOIL)	el is fine to	12 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	TS	STATE STATES
).50	ES	0				85.27	0.50	Stiff high gravel of	strength orange b subangular coal.	orown mottled ( (GLACIAL DEF	grey sandy CL POSITS)	AY with medi	um and coarse	- 0		
			100			84.57	(0.70)								GDU	
1.50	D					84.57		Firm med	lium strength redo	lish brown sligl	htly sandy CLA	AY. (GLACIAL	DEPOSITS)			
			50				(2.10)								GDU	
3.00	D		48			82.47	- - - 3.30	Trial pit te	erminated at 3.30r	n bgl.						
							-									
							Length		Shoring/Support:		1		Strikes			
<b>-</b>		— 3 A			<b>→</b>	<b>T</b>	Width	.00m	None	Date	Time	Strike	Minutes	Standing	Re	mark
D		С				B 1 <u>▼</u>	Orientation degre	on ees from	Stability:	General Rer Trial pit comp observed. No encountered.		gl. No visual or adings above ba	olfactory evidenc lickground record n.	e of contamin ed. Groundwa	ation ater not	

			NS	P						TRIAL F	PIT LO	G		Hole N	No. <b>TP1</b>	50	
		0-182 M5 none:	3SP	-	100		Project			Woodford	Aerodrome	e		Sheet	1 of	1	
Job		7000	)443	30			Client			Harrow E	states Plc			Date	03-07- 03-07-	14 14	
	tracto			e Ltd		Met	hod/Pla	nt Use		Logged By	eston	E	ates (NGR) 389971.550 382218.090		round Level 84.9		DD)
	SAMP	LES	& TE	STS	3						STR	ATA					Install /
D	epth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				Desc	ription			Legend	Geology	
							84.70	-ness) -(0.20) 0.20		ROUND: Hay over	brown slightly	sandy SILT (	TOPSOIL)			TS	
							84.50	-(0.20)	MADE GI	ROUND: Reinforce						CONC	
0.50		ES					83.80	(0.70)	MADE Gi boulders	ROUND: Brown ar of subangular fine	nd grey sandy ( to coarse cond	GRAVEL and crete and rare	occasional co clinker	bbles and		GMG	
1.20		ES					83.50	(0.30)	MADE GI fragments	ROUND: Dark gre	y CLAY with po	essible black s	staining and ra	re brick		GMG	
03.GDT 11/12/14 1.20 1.80 1.80		ES D					00.00	(0.90)	Boulder n	slightly sandy CL. oted (500x300x30	AY with light gr 00mm). (GLACI	ey silty mediu AL DEPOSIT	ım and coarse 'S)	sand parting	gs	GDU	
		D					82.60	-(0.20)		ty fine SAND (GLA	ACIAL DEPOSI	TS)				GDU	
E VERSION.GPJ WSPETEM 		D						-(1.20)	Firm loca	lly stiff brown sand	ly CLAY (GLAC	CIAL DEPOSI	TS)			GDU	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED - 100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1							81.20	3.70		terminated at 3.7r	n bgl						
- COM								10000		Charina / Comment	I		1A	Obella			
WOODFORD LOGS	<del></del>		— 3 A			<b>-</b>	ł ]_ <del> </del>	Width	.00m	Shoring/Support: None	Date	Time	Water Strike	Strikes Minutes	Standing	Re	marks
TP LOG STANDARE			С				B 1 <u>↓</u>	Orientati degr		Stability: Stable	observed. No	ete at 3.70m bg radiological rea	gl. No visual or o dings above bad upon completion	kground reco			
08 WSP	Sca	ale 1:2	25				II dimens dentifica		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are	based on visu	ial and	

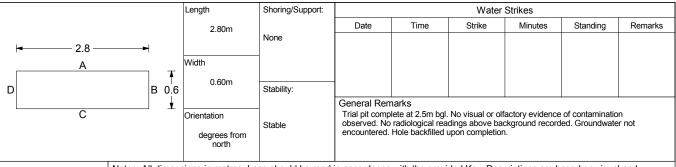
	<b> </b>		P						TRIAL I	PIT LO	G		Hole		Γ <b>Ρ</b> 1	51	
	150-182 M5 phone:	0 3SP	,	100		Project			Woodford	Aerodrom	e		Shee	ŧt	1 of	1	
Job No	700	0443	30			Client			Harrow E	states Plc			Date	(	04-08- 04-08-		
Contract	or / Dr	iller			Met	hod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)		Groun	d Level	(m AC	D)
Н & С	) Plan	t Hire	e Ltd			JC	CB 3CX	X	J Kincl	hington		389298.030 381722.300			90.2	260	
SAM	PLES	& TE	STS	3						STR	RATA		l .				Install Backfil
Depth	Туре	Old (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Desc	cription				Legend	Geology	
0.10	ES						-(0.40)	PROBAB rootlets. ( (TOPSOI	LE MADE GROU Gravel is fine to co L).	ND: Long grass parse subangul	s over brown : ar to rounded	slightly gravelly of various litho	/ SAND wit blogies	h		GMG	
0.40	ES					89.86		PROBAB	LE MADE GROU	ND: Loose ora	nge brown slig ar of various li	ghtly gravelly S thologies.	AND. Grav	el is		OMO.	
-						89.56	0.70	PROBAB	LE MADE GROU							GMG	
-			50				(0.60)	slightly sa lithologies	andy CLAY. Grave	el is fine to coar	se angular to	subrounded of	f various			CMG	
1.20	ES	0				88.96	1.30	Stiff high	gl; black staining - strength brown ar ounded to subang	nd grey slightly	gravelly friable	e CLAY. Grave	el is fine and	d			
-1.40	ES	0	104				-										
- - - - -							(1.70)									SUPD	
						87.26	3.00										
3.0 D D D D D D D D D D D D D D D D D D D	D						- - -	Trial pit c	omplete at 3.00m	bgl.							
-							Length		Shoring/Support	T		Water	Strikoo				
							Length 3	3.00m	Shoring/Support:	Date	Time	Water Strike	Minutes	8	Standing	Rei	marks
		— 3 A			>		Width		None								
D D						B 1	1	.00m	Stability:	0.000015							
		С				J <u>*</u> .		rees from	Stable		lete at 3.00 bgl. ve background r	Black staining a ecorded. No gro					d
So	cale 1:2	25				II dimens dentificat		metres. Log	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are	e based	d on vist	ual and	

Harrow Estates PIC  O1-08-14  01-08-14  Contractor / Driller H & C Plant Hire Ltd  JCB 3CX  Logged By JKinchington  STRATA  Inst. Bac  Depth Type  Q		<b> </b>		P						TRIAL F	PIT LO	G		Hole N	TP'	152	
Contractor / Driller		50-182 M50 hone: 0	The Q 0 3SP 0161 8	•	400		Project			Woodford	Aerodrom	e		Sheet		f 1	
H & C Plant Hire Ltd  JCB 3CX  J Kinchington  STRATA  Depon Type 2 8 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Job No			30			Client			Harrow E	states Plc			Date			
SAMPLES & TESTS  Depth Type R 3 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P 2 P	Contracto	or / Dr	iller			Met	hod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)	G	round Lev	el (m A	OD)
Depth Type 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	H & C	Plan	t Hire	e Ltd			JO	CB 3CX	<	J Kinch	nington				8:	2.200	
Depth Type Q S S S S S S S S S S S S S S S S S S	SAMF	PLES	& TE	STS	3						STR	ATA					Install Backfi
82.10 Sc.10	Depth	Туре	PID (ppmV)	HSV kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)	(Thick			Desc	cription			Legei	nd Geolog	
0.50 ES 3    Solid Color   State   Solid Color   State   Solid Color   S							82.10									TARMA	
MADE_GROUND: Black sandy ashly fine to coarse angular to subrounded GRAVEL    MADE_GROUND: Black sandy ashly fine to coarse angular to subrounded GRAVEL   Os80	-						81.90		angular to	subrounded GRA	orown and occa AVEL of brick a	asionally yello and various litl	w sandy fine to hologies with ar	coarse ver gular cobb	y les	GMG	
Soft dark grey sandy CLAY with relict organic matter. (GLACIAL DEPOSITS)  80.80 1.40 Light brown and grey fine and medium SAND. (GLACIAL DEPOSITS)  1.50 B S 1.60 ES  79.40 2.80  79.40 2.80  Trial pit terminated at 2.80m bgl due to instability  Trial pit terminated at 2.80m bgl due to instability  Date Time Strike Minutes Standing Remarks  None  None  1.40 Dientation Compress from Compress the Strike Count of Strike County and	- - - -	ES	3					Harrow Estates Plc  Harrow Estates Plc  Harrow Estates Plc  Harrow Estates Plc  Logged By Co-Ordinates (NGR E 389816.12 N 381336.8)  STRATA  STRATA  MADE GROUND: ASPHALT  (0.20) 0.30 O 0.30 Of sandstone.  MADE GROUND: Black sandy ashy fine to coarse angular to subrounded GRAVEL of brick and various lithologies with of brick and various lithologies. Odour.  (0.50) Soft dark grey sandy CLAY with relict organic matter. (GLACIAL DE 0.80 Odour.  (0.60) Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSIT C1.40)							iL V	GMG	
Length 3.00m   Shoring/Support   Water Strikes   Date   Time   Strike   Minutes   Standing   Remarks    C   C   C   C   C   C   C   C   C	- -  - -	ES	3	20		•		-	Soft dark	grey sandy CLAY	with relict orga	nic matter. (C	GLACIAL DEPO	SITS)		ALV	
Trial pit terminated at 2.80m bgl due to instability  Length 3.00m  None  Length 3.00m  None  Stability:  Orientation degrees from degr	1.40 1.50 1.60 	В				<del>\</del> _	80.60	ness) 82.10 0.10 MADE GROUND: ASPHALT  (0.20) 81.90 (0.50) 81.40 0.80  81.40 0.80  Soft dark grey sandy CLAY with relict organic matter. (GLACIAL DEPOSITS)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSITS)  Light brown and grey fine and medium SAND. (GLACIAL DEPOSITS)								ALV	
3.00m None Date Time Strike Minutes Standing Remarks  None 1.40  Date Time Strike Minutes Standing Remarks  1.40  C C C C Stability: 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.	- - - - - - -						79.40	2.80 - - - - - - -	Trial pit te	erminated at 2.80n	n bgl due to ins	stability					
A  D  Stability:  C  Orientation degrees from degrees degree					· ·			Length		Shoring/Support:	-	-				.   -	
Running sand degrees from degrees from Running sand degrees from causing instability	D		A			_	B 1	Width 1	.00m		General Rem	narks	1.40				emarks
Scale 1:25 Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and								degr r	ees from north		readings abov backfilled upo	re background r n completion.	ecorded. Ground	vater encour	ntered at 1.40	m bgl. Hol	e

	<b> </b>	<b>NS</b> /SP	P						TRIAL F	PIT LO	G		Hole No	TP1	55	
	phone:	0 3SP	•	00		Project			Woodford	Aerodrom	е		Sheet	1 of	1	
Job No	7000	)44	30		•	Client			Harrow E	states Plc			Date	30-07- 30-07-	·14 ·14	
Contract	or / Dr	iller			Meth	nod/Pla	nt Us	ed	Logged By			ates (NGR)	Gro	ound Level	l (m AC	DD)
H & 0	C Plan	t Hire	e Ltd			J	CB 3C	×	J. Wa	atson		389466.340 382505.150		90.0	050	
SAM	PLES		1	1			Don	ih		STR	RATA					Install / Backfill
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depi			Desc	cription			Legend	Geology	,
0.10-0.20	ES	0				89.80	(0.25	MADE GI Gravel is	ROUND: Grass ov fine and medium	rer dark brown subangular of v	slightly clayey various litholo	slightly gravelly gies (TOPSOIL)	SAND.		MG	
-						09.00	(0.35	MADE GI GRAVEL	ROUND: Light bro of various litholog	wn slightly clay ies including lii	ey sandy fine mestone.	and medium ang	ular		GMG	
0.00.0.70						89.45	0.6					Palati a a de al Pal				
0.60-0.70	ES	0	110 90				- - -	CLAY. G	strength orange b avel is fine and m	rown mottled g edium of varior	reenish grey : us lithologies.	slightly sandy slig (GLACIAL DEPC	ntly gravelly OSITS)	y		
1.00-1.10	D		90				-									
-							-(1.60)								GDU	
1.50-1.70 -1.50-1.60	B D		110				-									
			90				-							0		
2.00-2.20	D		00													
			80			87.85	2.2		omplete at 2.2m b	gl						
							-									
  -  -							-									
<u> </u>							-									
_							_									
: 							_									
<u> </u>							Longth		Shoring/Support:	ı		Matau Chi	lina			
							Length	2.80m		Date	Time	Water Strike	Minutes	Standing	Re	marks
<u></u>		- 2.8			-		Width		None							
		A				■ T B 0.6		0.60m	Stability:							
		С				₩.	Orienta de	ation grees from north	Stability.	observed, No	lete at 2.2m bgl radiological rea	. No visual or olfactr dings above backgr upon completion.	ory evidence ound record	of contamina ed. Groundwa	ition ater not	

	<b> </b>	NS	P					-	TRIAL PIT	LO	 3	Hole	e No.	ΓΡ1 <i>ŧ</i>	56	
	50-182 M5 ohone:	0 3SP	-	100		Project			Woodford Aerod	drome	,	She	eet	1 of	1	
Job No	7000	0443	30			Client			Harrow Estates	s Plc		Dat		30-07- 30-07-		
Contracto	or / Dr	iller			Ме	thod/Pla	nt Use	d	Logged By		Co-Ordinates (NGR)		Groun	d Level	(m AO	D)
H & C	Plan	t Hire	e Ltd			J(	CB 3C>	(	J. Watson		E 389577.650 N 382560.620			91.6	310	
SAMF	PLES	& TE	STS	3						STRA	ATA					Install / Backfill
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen	Water	Elev. (mAOD)	Depth (Thick -ness)			Descr	iption			Legend	Geology	Daokiii
-							- (0.00)				lightly clayey slightly gravelly Sarious lithologies (TOPSOIL)	AND.				

PLES	& TE	STS							STF	RATA				1	Inst Bac
Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	(Thick			Des	cription			Legend	Geology	,
						(0.30)	MADE G Gravel is	ROUND: Grass ov fine and medium s	er dark brown subangular of	slightly clayey various litholo	/ slightly grave gies (TOPSO	elly SAND. L)		TS	
B ES	0				91.31		MADE G with brok concrete	ROUND: Light bro en and whole brick	wn sandy fine	to coarse ang rebar wire and	ular GRAVEL cobbles and	of limestone boulders of		GMG	
					90.76	0.85									反
D ES	0	60				-	Firm med	dium strength dark	bluish grey sa	andy organic C	LAY. (RELIC	Γ TOPSOIL)		SUPD	
B ES	0	70			96.6	-	gravelly (	CLAY. Gravel is fin	ength orange e and mediun	brown mottled n rounded of v	grey slightly s arious litholog	sandy slightly ies. (GLACIAL			
		110				(1.50)	1.80 m b	gl; Dark reddish br	own					GDU	
D		100				-									
		90											0		
		30			90.11	2.50							-0		
						- - - - - - - - -									
1						Length		Shoring/Support:			Water	Strikes			
		ı ——		<b></b>			.80m	None	Date	Time	Strike	Minutes	Standing	Rer	mark
	A				<b>T</b>		.60m	Stability:							
	С				<u>*</u>	degr		Stable	Trial pit comp observed. No	olete at 2.5m bgl o radiological rea	dings above ba	ckground recorde	of contamina d. Groundwa	tion ater not	
	B ES D ES B ES	Type O O O O O O O O O O O O O O O O O O O	Type   G(Audy)   A(Audy)	BS 0 60 BS 0 70 1110 D 1000 D	Type   G   (NM)   (NM)	Type   Carrow   Carro	Type	Type	Type	Type   Q   Q   Q   Q   Q   Q   Q   Q   Q	Type Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Elev.   Common   Description   Description	Page   Page	Description   Description	Description   Description



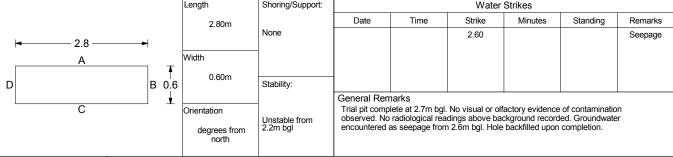
<b>WSP</b>		TRIAL PIT LO	G	TP157
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrom	е	Sheet 1 of 1
Job No 70004430	Client	Harrow Estates Plc		30-07-14 30-07-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
H & C Plant Hire Ltd	JCB 3CX	J. Watson	E 389554.180 N 382491.280	91.780

	LES						I D "			SII	RATA					Insta Bac
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)				cription			Legend	Geology	
0.10-0.20	ES	0				91.53	(0.25)	medium	ver dark brown sligl subangular of vario	ntly clayey slig ous lithologies	htly gravelly S (TOPSOIL)	AND. Gravel i	is fine and	1/ 2/ 1/ 2/ 1/2 - 2/ 1/	TS	
0.40-0.50	ES	0	32			91.55		Soft low occasion	strength brown mo lal pockets of grey to subrounded of v	fine and medi	um sand. Gra	vel is fine and	medium			
1.00	D		36				(2.45)	1.50 m h		um atraneth					GDU	
1.50 1.50	BD		56				- - - - -	1.50 m b	gl; becoming medi	um strength						
2.50	D		56			89.08	2.70									Z252
							-	Trial pit o	complete at 2.7m b	gl						
							_									
							Length		Shoring/Support:		_		Strikes		T -	
<del> </del>		– 2.8 <u>A</u>	l —		<b>→</b>		2 Width	.80m	None	Date	Time	Strike	Minutes	Standing	Rer	mark
D		С				B 0.6 <u>↓</u>	0 Orientati	.60m on	Stability:	General Rer	olete at 2.7m hal	. No visual or ol	factory evidence	e of contamina	tion	

	V	<b>NS</b> /SP	P						TRIAL F	PIT LO	G		Hole N	TP1	58	
	50-182 M50 hone: 0	The Q 0 3SP 0161 8	•	100		Project			Woodford	Aerodrom	e		Sheet	1 of	1	
Job No	7000	0443	30			Client			Harrow E	states Plc			Date	31-07 31-07		
Contracto	r / Dri	iller			Met	hod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)	G	round Leve	el (m AC	)D)
H & C	Plant	t Hire	e Ltd			JC	CB 3C	K	J. Wa	389787.780 382586.820		90	300			
SAMP	LES	& TE	STS	3						STR	ATA					Install Backfil
Depth	Туре	PID ppmV)	HSV (N/m2)	Pen (N/m2)	Water	Elev. (mAOD)				Desc	cription			Legeno	Geology	
0.10-0.20	ES ES	0	=	)		90.00	(0.30)	CLAY wit	h occasional bould	ver stiff mediur ders of concret	n strength bro e. Gravel is fir	wn sandy sligh ne and medium	tly gravelly of various		TS	
- - - 0.50-1.00 -0.50-0.60 -	B ES	0	Project Woodford Aerodrome  Client Harrow Estates Plc  Ter Method/Plant Used Hire Ltd  JCB 3CX  J. Watson  STRATA  CLA STRATA  Elev. (mAOD) (Thick ness) (MADE GROUND: Grass over stiff medium strength brown sandy stifthologies. (TOPSOIL)  MADE GROUND: Grass over mottled grey sandy slightly gravel fine and medium of various lithologies. (GLACIAL DEPOSITS)							ghtly gravelly ( OSITS)	CLAY. Grave	el is	GDU			
1.00-1.10	No   Tolophone: 0161 886 2400   Fax:   No   Tolophone: 0161 886 2400   Fax:   No   Tolophone: 0161 886 2400   Tolophone: 0161 8						1.10		rowm medium SA	ND. (GLACIAL	DEPOSITS)					
	00 B 0 110 - (0.80) 100 D 89.20 1.10 - (1.40) - (1.40)						- - -(1.40)								GDU	
	0.60 ES 0 110 -(0.8 100 1.10 B 89.20 1					87.80	2.50	Trial pit c	omplete at 2.5m b	gl						
Scale Control of the							-									
8							Length		Shoring/Support:			Water S	Strikes			
		– 2.8 A	3 —		-	B 0.6	Width	.80m	None Stability:	Date	Time	Strike	Minutes	Standing	Re	marks
		С				<u> </u>		rees from	Stable Stable	observed. No	lete at 2.5m bgl. radiological rea	No visual or olfa dings above bac upon completion.	kground recor			
Sca	ale 1:2	25				II dimens dentificat		metres. Log	gs should be read	I in accordance	with the provi	ded Key. Desc	riptions are	based on vis	ual and	

<b>WSP</b>		TRIAL PIT L	OG	TP159
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodro	ome	Sheet 1 of 1
Job No 70004430	Client	Harrow Estates F	Plc	Date 30-07-14 30-07-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
H & C Plant Hire Ltd	JCB 3CX	J. Watson	E 389493.840 N 382452.390	89.360

SAMF	PLES	& TE	STS							STI	RATA					Insta Bac
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	cription			Legend	Geology	,
0.00-0.30 0.10-0.20	ES ES	0					-ness) -	MADE G	ROUND: Grass ov medium of various	er stiff brown lithologies (To	very sandy sli OPSOIL)	ghtly gravelly (	CLAY. Gravel is	11/2 11/2		
0.30-0.50	ES	0					(0.60)							1/2 1/2	TS	
						88.76	0.60							\(\frac{\lambda I_j}{\lambda} \) \(\frac{\lambda I_j}{\lambda} \) \(\frac{\lambda I_j}{\lambda} \)		
0.60-0.70 0.60-0.70	B ES		26				-	Soft low DEPOSI	strength brown sar TS)	ndy CLAY with	pockets of fir	e to coarse sa	and. (GLACIAL			
1.00-1.10	D		24				-									
1.00-1.10							-									
							-(1.60)								GDU	
							-									
						07.40	2.00									
2.20-2.50	В					87.16	2.20	Orange l	prown clayey grave thologies. (GLACI	lly medium ar AL DEPOSITS	nd coarse SAN	ID. Gravel is fi	ne angular of			
					<b>±</b>		(0.50)								GDU	
					-	86.66	2.70	Trial pit o	complete at 2.7m b	gl						St
							-									
							-									
							-									
	<u> </u>	ı					Length		Shoring/Support:			Water	Strikes			
<b> </b> ■		- 2.8	s				2.	80m	None	Date	Time	Strike 2.60	Minutes	Standing		mark epage
		Α				<b>T</b>	Width 0	60m	Ctobility :	-						
D		С				B 0.6 <u>▼</u>	Orientati	on	Stability:	General Rer	olete at 2.7m bal	. No visual or of	factory evidence of	of contamina	ition	
							degr r	ees from orth	Unstable from 2.2m bgl	encountered	as seepage fror	n 2.6m bgl. Hole	ckground recorde backfilled upon o	a. Groundwa completion.	alti	
	ale 1:2			Note	s. Al	l dimens	ions in i	metres I o	gs should be read	in accordance	with the prov	ided Key Des	crintions are ha	ead on vie	ıal and	



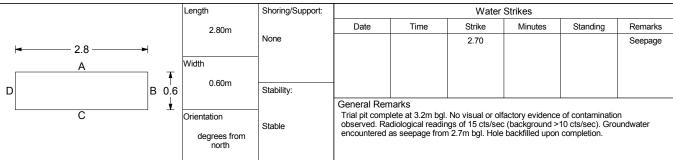
			W		P						TRIAL F	PIT LO	G		Hole No	TP10	60	
	T€	150-1 elephon	WSF 82 The M50 38 e: 016 Fax:	e Qua SP 31 88	•	00	ī	Project			Woodford .	Aerodrome	e		Sheet	1 of	1	
	Job No		004	430	0		(	Client			Harrow E	states Plc			Date	05-08- 05-08-		
	Contrac	ctor /			Ltd		Meth	nod/Pla	nt Use		Logged By J Kinch	nington	E	ates (NGR) 389655.680 382425.810		ound Level		D)
	SAI	MPLE	S &	TES	STS	;						STR						Install /
	Depth					P.Pen (kN/m2)	Water	Elev. (mAOD)				Desc	ription			Legend	Geology	Backfill
	-							89.16	-ness) -(0.20) 0.20	subangul	ROUND: Crops ov ar cobbles. Gravel	is fine to coars	ly gravelly fine se angular to	e SAND with o rounded of var	ccaional ious lithologie	es.	GMG	
	0.20	E	S					88.96	-(0.20) 0.40	Soft dark	grey brown organi	ic CLAY					ALV	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPU WSPETEMPLATE1.03.GDT 11/12/14								87.56	1.80	subangul	erminated at 1.80m	arious lithologie	s (GLACIAL I	s fine and mec	lium		GDU	
- S90-									Length		Shoring/Support:	Date	Time	Water Strike		Standing	Der	marke
ARD WOODFORD L	D D			3 - A			<b>→</b>	Т В 1	Width	.00m	None Stability:	Date	Time	Strike	Minutes	Standing	Rer	marks
TP LOG STANDA				С				<u></u>		rees from	Unstable from 0.60m bgl.	contamination	ete at 1.80m bg observed. No r	ıl. Sides unstable adiological readi d. Hole backfilled	ngs above bac	kground recor		
08 WSF		Scale	1:25					dimens lentifica		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	riptions are b	ased on visu	ual and	

<b>WSP</b>			TRIAL PIT LO	G	Hol	e No. <b>TP161</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrom	e	She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 01-08-14 01-08-14
Contractor / Driller	Met	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
H & C Plant Hire Ltd		JCB 3CX	J Kinchington	E 389833.540 N 382485.830		88.190

SAMP	LES	& TE	ST	S			I 5 "			STF	RATA					Insta Back
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	cription			Legend	Geology	,
0.10	ES	0					-(0.40)	Long gra	ess over brown slight well rounded to sub-	htly gravelly fir angular of vari	ne SAND with ous lithologies	rootlets. Grav (TOPSOIL)	el is fine to	7 7 17 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TS	及及
						87.79	0.40							1/2 \ 1/2 \ \		
0.40	ES	0					-	Orange r DEPOSI	reddish brown occa TS)	asionally yellov	v fine and med	lium SAND. ((	GLACIAL			
- 1.00	В						-(1.20) - - - -	1.00 m b	gl; trial pit collapse						GDU	2020202020
					1	86.59	1.60		brown slightly silty	fine SAND (C	SLACIAL DEP	OSITS)		×		8
-					<u>*</u>	85.79	- -(0.80) - - - 2.40			· ·		·			GDU	
							- - - - - - - - - -	Thai pit t	erminated at 2.40n	n bgi due to in	stability					
							Length		Shoring/Support:		1		Strikes			
<b> </b>	3 — 3 A				<b>→</b>		3 Width	.00m	None	Date	Time	Strike 1.70	Minutes	Standing	Rei	mark
D	D					B 1	1	.00m	Stability:							
	С					<u>*</u>	Orientati degr r	on ees from north	Unstable from 1.00m bgl	observed. No	olete at 2.40m bo	dings above ba	olfactory evidenc ckground record on completion.	e of contamin ed. Groundwa	ation ater	
Sca	ale 1:2	.5		Note	es: Al nual id	l dimens dentificat	ions in i	metres. Lo	gs should be read	in accordance	with the provi	ded Key. Des	criptions are b	ased on visu	ual and	

<b>WSP</b>			TRIAL PIT LO	<b>3</b>	TP162				
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	-	Project	,	Shee	1				
Job No 70004430		Client	Harrow Estates Plc		Date	31	1-07- 1-07-		
Contractor / Driller  H & C Plant Hire Ltd	Met	thod/Plant Used JCB 3CX	Logged By  J. Watson	Co-Ordinates (NGR) E 389450.580 N 382393.570		Ground	Level 87.4	`	D)
SAMPLES & TESTS			STRA	ATA					Install / Backfill
Depth Type C ( ) C	/ater	Depth Elev.	Descr	iption		L	.egend	Geology	

SAMP	LES	& TE	STS	3						STI	RATA					Insta Back					
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				Des	cription			Legend	Geology	,					
0.10-0.20	ES	3					-ness) - - - - - -(0.75)	GRAVEL	ROUND: Dark bro _ of ash and clinkei 75 Radiation readir	r and fine and	medium round	and medium led of various	angular lithologies.		MG	X1081081					
0.40-0.50 0.50	ES D	0					-														
0.80-1.00	ES					86.68	- 0.75	Greenish coarse ro	n brown clayey sligl ounded of various I	htly gravelly fir ithologies. (Gl	ne and medium ACIAL DEPO	n SAND. Grav SITS)	vel is fine to			\$2.50 S					
1.20	D						-														
							(1.35)								GDU						
	D					85.33	2.10	Firm loca	ally stiff dark reddis	h brown sligh	ly sandy slight	ly gravelly CL	AY. Gravel is	-0							
66							-	fine and	medium rounded o	of various litho	logies. (GLAC	AL DEPOSIT	S)			SE S					
2.80	D		50		₹		(1.10)	[(1.10)							GDU	SECTION AND ADDRESS OF THE PERSON AND ADDRES					
2.90-3.00	ES	0				84.23	3.20	Trial rite	and the 2 One had												
						-	mai pir c	complete 3.2m bgl													
						Lengt						Length	ngth Shoring/Support: Water Strikes								
<b> -</b>	2.8 — ► A					_	.80m	None	Date	Time	Strike 2.70	Minutes	Standing		marks						
D					B 0.6		.60m	Stability:	Consul												
	С					<u>*</u>	Orientation  Stable  General Remarks  Trial pit complete at 3.2m bgl. No visual or olfactory evidence observed. Radiological readings of 15 cts/sec (background > encountered as seepage from 2.7m bgl. Hole backfilled upon					0 cts/sec). G	tion roundwa	ter							
Sca	ale 1:2	:5				I dimens		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Des	criptions are ba	ased on visu	ual and						



į	<b> </b>		P					TRIAL F	PIT LO	G		Hole N	TP10	63	
	50-182 M50 ohone: 0	3SP	•	00	Projec	t		Woodford	Aerodrom	ne		Sheet	1 of	1	
Job No	7000		30		Client			Harrow E	states Plc			Date	30-07- 30-07-	14	
Contracto			e Ltd	М	ethod/Pl	ant Use		Logged By	atson	E	nates (NGR) = 389543.970 N 382376.570	Gr	ound Level		DD)
SAMF	PLES	& TE	STS	;					STF	RATA					Install Backfil
Depth	Туре	PID pmV)	HSV N/m2)	.Pen N/m2)	Elev.	Depth (Thick			Des	cription			Legend	Geology	
0.10-0.20	ES	0	_ <del>x</del>	(K R)		-ness) - - (0.70)	MADE GF cobbles o	ROUND: Light bro f concrete. Gravel	wn slightly cla is fine and m	yey slightly gi edium rounde	ravelly fine SAN) and of various lith	O with rare blogies.		GMG	
0.80-1.20 -0.80-0.90 0.80-0.90 1.00	B D ES D	0	20		88.1	- - -(0.80)	peat. (SU	greyish brown sar PERFICIAL DEPC	ndy organic CL OSITS)	AY with disse	eminated reddis	h brown fibro	Jus	SUPD	
2.00	40 100				87.3	-(1.20)	Stiff high s	Stiff high strength reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. (GLACIAL DEPOSITS)							
- - - - - - - -					86.1	7 2.70	Trial pit co	omplete at 2.7m b	gl				<u>o</u>		
	1	1		<u> </u>		Length		Shoring/Support:			Water S		1		
D		– 2.8 <u>A</u>	3		<b>→</b> B 0.6	Width	.60m -	None Stability:	Date  General Ren Trial pit comp	olete at 2.7m bg	Strike  I. No visual or olfa adings above back	Minutes  ctory evidence	Standing e of contamina	tion	marks

<b>WSP</b>		-	TRIAL PIT LO		Hole	TP164
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client		Dat	te 05-08-14 05-08-14	
Contractor / Driller	Me	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
H & C Plant Hire Ltd		JCB 3CX	J Kinchington	E 389630.950 N 382330.710		88.160
SAMDLES & TESTS			QTD/	ΛΤΛ		Install /

SAME	PLES	& TE	STS	5						STF	RATA					Insta Back
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick			Des	scription			Legend	Geology	,
0.10	ES	0					-ness) - -(0.40)	MADE G to coarse	GROUND: Light bro e angular to rounde	wn slightly gra d of various li	avelly fine SAN thologies (TOI	ND with rootlet PSOIL).	ts. Gravel is fine	<u> </u>	TS	STATES OF THE PROPERTY OF THE
	ES	0				87.76 85.36	-(2.40)	various I	brown slightly grave ithologies. (GLACI	AL DEPOSIT)	nedium SAND.	Gravel is rou	nded medium o		GDU	
-							- - - - - - - - - - 3	.00m	Shoring/Support:	bgl.	Time	Water Strike	- Strikes Minutes	Standing	Rei	mark
D	A A C			A Width  B 1  Stability:  General Remarks							of contamir d. Groundw	ation ater not				

<b>WSP</b>			TRIAL PIT LO	OG	Hol	TP165
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodro	me	She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Pl	С	Da	te 05-08-14 05-08-14
Contractor / Driller	Me	thod/Plant Used	Logged By	Co-Ordinates (NGR)	Sheet  1 of 1  Date 05-08-14 05-08-14  R) Ground Level (m AOD)	
H & C Plant Hire Ltd		JCB 3CX	J Kinchington	E 389754.600 N 382384.020		87.340
SAMPLES & TESTS			S <sup>-</sup>	TRATA		Install /

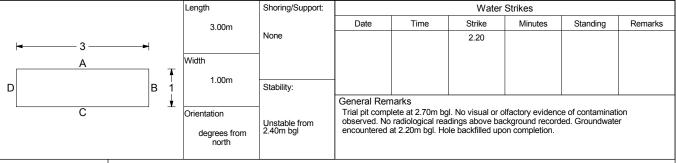
LES	& TE	STS							STF	RATA					Insta Back
Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	(Thick			Des	cription			Legend	Geology	
ES	0					-(0.40)	Grass ov fine to co	ver light brown sligh parse subangular to	ntly gravelly fin o rounded of v	e and mediun arious iltholog	n SAND with r ies (TOPSOIL	rootlets. Gravel is .).	71/2/11	TS	WEST STATES
ES	0				86.94	(1.50)	Orange rounded	orown slightly grave of various lithologi	elly fine and m es (GLACIAL	edium SAND. DEPOSITS).	Gravel is me	dium and coarse		GDU	
В					85.44	1.90	Grey and	d brown silty fine Sa	AND. (GLACIA	AL DEPOSITS	·).			GDU	
В					84.54	2.80	Trial pit (	complete at 2.80m	bgl.						
						Length		Shoring/Support:			Water	Strikes			
	— 3 A			-	B 1 <u>↓</u>	Width	.00m	None Stability:	Trial pit comp	olete at 2.80m bo	Strike	Minutes  Minutes	Standing Standing of contamir	ation	marks
	ES B	ES 0  ES 0	ES 0	ES 0	ES 0	ES 0   36.94	ES 0	Type	Type	Type	Type Q S Y S Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Type Q S S S S S S S S S S S S S S S S S S	Second Property of the content of	Page	Second   S

<b>WSP</b>		TRIAL PIT LO		Hole No. <b>TP166</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome		Sheet 1 of 1
Job No 70004430	Client	Harrow Estates Plc		01-08-14 01-08-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
H & C Plant Hire Ltd	JCB 3CX	J Kinchington	E 389973.510 N 382515.520	86.890

					Bac
scription			Legend	Geology	,
AND with rootle ies (TOPSOIL	ets. Gravel is f .)	ine to coarse	11/2 11/2 1/2 11/2 1/2 1/4	TS	
ht grov sandy		IAL DEPOSITS)			
ni grey sandy	CLAT. (GLAC	IAL DEPOSITS)		GDU	
GLACIAL DEF	POSITS)				豆
				GDU	200000000000000000000000000000000000000
					2
AL DEPOSITS)	)		× · · · · · · · · · · · · · · · · · · ·	GDU	
nstability.					
	Water	Strikes			<u>_</u>
Time	Strike	Minutes	Standing	Rei	mark
	2.20				
plete at 2.80m bo o radiological rea	adings above ba	ckground recorded	of contamin Groundwa	ation ater	
n Ned	No radiological reads at 2.20m bgl. H	emarks mplete at 2.80m bgl. No visual or o No radiological readings above ba d at 2.20m bgl. Hole backfilled up	emarks  mplete at 2.80m bgl. No visual or olfactory evidence o  No radiological readings above background recorded.  d at 2.20m bgl. Hole backfilled upon completion.	emarks  mplete at 2.80m bgl. No visual or olfactory evidence of contamin  No radiological readings above background recorded. Groundwa d at 2.20m bgl. Hole backfilled upon completion.	emarks mplete at 2.80m bgl. No visual or olfactory evidence of contamination No radiological readings above background recorded. Groundwater

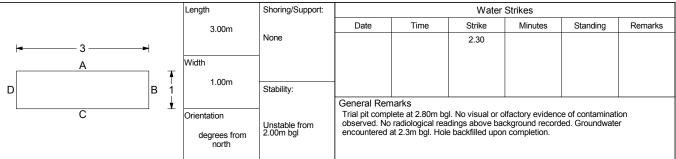
<b>WSP</b>		TRIAL PIT LO	G	Hole No. <b>TP167</b>	
WSP 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome	•	Sheet 1 of 1	
Job No 70004430	Client	Harrow Estates Plc		Date 01-08-14 01-08-14	
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD	))
H & C Plant Hire Ltd	JCB 3CX	J Kinchington	E 390084.460 N 382484.300	86.720	

SAMF				_			Do-#			STF	RATA					Inst Bac
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	cription			Legend	Geology	,
							-(0.40)	Grass ov to coarse	ver brown fine and e rounded and subi	medium slight rounded. (TOF	ly gravelly SAI PSOIL)	ND with rootle	ts. Gravel is fine	1/ 1/1/	TS	2000
0.40	ES	0				86.32	0.40	Firm med subangu	dium strength oran lar to rounded of va	ge brown sligh arious lithologi	ntly gravelly Cl es. (GLACIAL	LAY. Gravel is . DEPOSITS)	fine to coarse			2555
0.80	В		60				(1.10)								GDU	
1.50	В					85.22	1.50	Stiff high	strength reddish b	prown mottled	grey slightly gi	ravelly CLAY.	Gravel is			
			78				(0.50)	angular (	grey săndstone and	d coal. (GLAC	ĀL DEPOŠIT	S)			GDU	125255 125255
2.00 2.20	D ES	0			<u>‡</u>	84.72	2.00	Reddish	brown silty fine SA	ND. (GLACIA	L DEPOSITS)	)		× · · · · · · · · · · · · · · · · · · ·		
						84.02	(0.70)							× · · · · · · · · · · · · · · · · · · ·	GDU	
							- - - - - - - - -	Their pit C	complete at 2.70m	ogi.						
		<u> </u>				<u> </u>	Length		Shoring/Support:			Water	Strikes		<u> </u>	
<b> -</b>		— 3 A			<b>&gt;</b>		3 Width	.00m	None	Date	Time	Strike 2.20	Minutes	Standing	Re	mark
D		С				B 1 <u>¥</u>	Orientati degr	on ees from	Stability: Unstable from 2.40m bgl	observed. No	olete at 2.70m bo	adings above ba	olfactory evidence ackground recorder on completion.			



<b>WSP</b>		TDIAL DITLO			460
WSP		TRIAL PIT LO	3	TP168  Sheet  1 of 1  Date 04-08-14 04-08-14  Ground Level (m AC 85.110	100
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome			of 1
Job No 70004430	Client	Harrow Estates Plc		04-0	-
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Le	vel (m AOD)
H & C Plant Hire Ltd	JCB 3CX	J Kinchington	E 389892.850 N 382337.020	8	35.110

SAMF	PLES	& TE	STS				Dent			STF	RATA					Ins Bad
Depth	Туре	PID (bbmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	cription			Legend	Geology	,
							-	MADE G	ROUND: Brown sl to rounded of vario	ightly clayey g	ravelly SAND	. Gravel is find	e to coarse			
							(0.45)	3		<b></b>	,				GMG	
0.30	ES	0					F` ´									
						84.66	0.45	Orongo	orown slightly claye	u fina ta caar	a CAND (CL	ACIAL DEDO	CITO)	XX		<u> </u>
						84.51	0.60							<u> </u>	GDU	Ø
							_	Firm bed	coming stiff mediun LAY. (GLACIAL DE	n strength brov	wn and grey o	ccasionally or	angey brown			
			48				-	July 5	2 (02 .0 12 22	,						
							-									Ž,
							<b>-</b>									22
							(1.00)								GDU	
			64				-									
							-									
						83.51	1.60									
						30.01	1.00		wn fine and mediu	m SAND. (GL	ACIAL DEPOS	SITS)				
							-(0.40)								GDU	
							ļ									1
2.00	В					83.11	2.00	Reddish	grey brown silty fir	e SAND. (GL	ACIAL DEPOS	SITS)		×		-12
							-		,	,		,		X		
					<u></u>									×		8
2.30	ES	0			-		-(0.80)							× · · · ·	GDU	
							-							× · · ×		
							-							× · · · ·		
						82.31	2.80							× · · ·		8
							-	Trial pit t	erminated at 2.80r	n bgl due to in	stability.					
							-									
							-									
							-									
							-									
							-									
							-									
	1	<u> </u>	I		1		Length	1	Shoring/Support:			Water	Strikes			_
							3	.00m	None	Date	Time	Strike	Minutes	Standing	Rei	mark
<b> </b>		<b>—</b> 3			-				None			2.30				
		Α				_	Width									
D							1	.00m	Stability:	1						
						」 ↓				General Rer		1		<u> </u>		
		С					Orientati	on	Unstable from	observed. No	radiological rea	dings above ba	olfactory evidence ckground record	e of contamin ed. Groundwa	ation ater	
							degr	ees from orth	Unstable from 2.00m bgl	encountered	at 2.3m bgl. Hol	e backfilled upo	n completion.			
Sc	ale 1:2	:5				l dimens dentifica		metres. Lo	gs should be read	in accordance	with the provi	ided Key. Des	criptions are b	ased on visi	ual and	

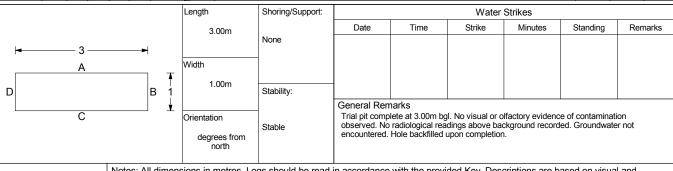


	<b></b>		P						TRIAL F	PIT LO	G		Hole	No. <b>TP1</b>	69	
	150-182 M50 phone: 0	3SP	-	400	ī	Project			Woodford	Aerodrom	e		Shee	et 1 of	1	
Job No	7000		30		(	Client			Harrow E	states Plc			Date	9 04-08- 04-08-	-14 -14	
Contract	or / Dr	iller			Meth	nod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)		Ground Leve		DD)
Н&С	C Plan	t Hire	e Lto	.		J	CB 3CX	<		nington		389782.700 382290.760		85.		
SAM	PLES	& TE	ESTS	<u> </u>						STF	RATA		<u> </u>			Install Backfi
Depth	Туре	PID ppmV)	HSV N/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				Des	cription			Legend	Geology	
- - - - - - - - - - - -	ES	0				85.22	(0.50) - (0.50) - (0.50) - (1.00)	rounded of	ROUND: Brown sl of various lithologic ROUND: Orange b ravel is rounded to of drain.	es (TOPSOIL)	. Likely replac	ed after installa	tion of dra	ain.	GMG	
- - - - - -			42		<u>+</u>	84.22 83.72	(0.50)	Firm med medium a DEPOSIT	gl; ceramic land dr ium strength redo and coarse subanç S)	dish brown mo gular to subrou	ınded of variou	s lithologies. (G	Y. Grave BLACIAL	dis _o	GDU	
- - - - -						83.02	(0.70)		erminated at 2.70n					× × × × × × × × × × × × × × × × × × ×	GDU	
- - - - - - - - -							-									
	1		•	1	•		Length	•	Shoring/Support:	_		Water St				
<b> </b> ←		— 3 A			<b>→</b>	Т В 1	Width	.00m	None Stability:	Date	Time	Strike 2.00	Minutes	Standing	Re	emarks
		С				<u></u>		on ees from north	Unstable from 2.00m bgl.	observed. No	lete at 2.70m bg radiological rea	I. No visual or olfa dings above back backfilled upon c	ground rec	corded. Groundw		

<b>WSP</b>	WSP 150-182 The Quays M50 3SP elephone: 0161 886 2400 Fax:  Client 70004430  Method/P	-	TRIAL PIT LOC	3	Hol	e No. <b>TP170</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 05-08-14 05-08-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
H & C Plant Hire Ltd		JCB 3CX	J Kinchington	E 389522.930 N 382267.510		87.320
	$\overline{}$					

SAMP	LES	& TE	STS	3						STF	RATA					Insta Back
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick			Des	cription			Legend	Geology	
-							-ness) - -(0.40)	Long gra	ss over brown sligh coarse subagular t	ntly gravelly fir to subrounded	ne and mediun of various lith	n SAND with ologies. (TOF	rootlets. Gravel PSOIL).	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	TS	\$25.55 \$25.55
- - 0.50 - 0.50 - - -	B ES	0				86.92		Reddish of various	brown slightly claye s lithologies. (GLA	ey slightly grav CIAL DEPOSI	velly SAND. G TS)	ravel is round	ed to subangular		GDU	
- - - - - - - - - - - - - - - - - - -	В					85.32	- 2.00	Reddish sandston	brown slightly clay e and coal and var	ey fine to coar rious lithologie	se SAND and s. (GLACIAL I	rounded GR/ DEPOSITS)	AVEL of			
						84.82	(0.50)	Brown fir	ne and medium SA	ND. (GLACIA	L DEPOSITS)				7	
						84.22	-(0.60) - - 3.10 - - -	Trial pit o	complete at 3.10m	bgl					GDU	
-							-									
							Length 3	.00m	Shoring/Support:	Date	Time	Water Strike	Strikes Minutes	Standing	Rer	narks
D D		— 3 A			<b>→</b>	B 1	Width	.00m	None Stability:	General Ren	narks					
		С				<u>. T</u>		ees from	Stable	Trial pit comp observed. No	lete at 3.10m bo	dings above ba	olfactory evidence o ackground recorded n.	f contamin Groundwa	ation ater not	
Sca	ale 1:2	25		Note	es: Al ual id	l dimens lentificat	ions in i	metres. Lo	gs should be read	in accordance	with the provi	ded Key. Des	criptions are base	ed on visu	ual and	

	VS	•						TRIAL F	PIT LO	G			-	TP17	71	
0-182	SP	uays		ı	Project							She	eet			
ione: 0	1618	86 240	00					Woodford	Aerodrom	е				1 of	1	
7000	443	30		(	Client			Harrow E	states Plc			Da	(	05-08- 05-08-	14 14	
/ Dri	ller			Meth	nod/Pla	nt Use	d	Logged By					Groun	d Level	(m AC	D)
Plant	Hire	e Ltd			J	CB 3CX	(	J Kinch	nington					86.7	00	
						Danth			STF	RATA						Instal Back
Туре	PID (ppmV)	HSV kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)	(Thick			Desc	cription				Legend	Geology	,
ES	0	)			86.35	_(0.35)	medium s	subangular to rour	nded of various	lithologies.(To	OPSOIL)		and	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	TS	
ES D	0	88				- - - - - _(1.65)	1.00 m bç	gl; becoming brow	n						GDU	
В		120				- - 2.00 - - - -(1.00) - -	Orange fi	ne and medium S	AND. (GLACIA	AL DEPOSITS	)				GDU	
					83.70		Trial pit c	omplete at 3.00m	bgl.							
						Length		Shoring/Support:	Dete	T:				Ota - di		
	- 3 A			>	B 1	Width 1. Orientation	00m on	None Stability:	General Ren Trial pit comp observed. No	narks lete at 3.00m bg radiological rea	I. No visual or o dings above bac	ifactory evi	idence of	contamina	ation	marks
	// OOOO / Driant LES i	D-182 The Q M50 3SP one: 0161 8 Fax:  7000443  / Driller Plant Hire	D-182 The Quays M50 3SP one: 0161 886 240 Fax:  70004430  / Driller  Plant Hire Ltd  LES & TESTS  Type	D	D-182 The Quays M50 3SP one: 0161 886 2400 Fax:  70004430  / Driller   Metropole   Metropo	D-182 The Quays M50 3SP one: 0161 886 2400 Fax:  Client  AC Client  Client  Client  Client  Client  Client  Client  Client  AC Client  Client  Client  Client  Client  AC Client  Client  Client  AC Client  Client  Client  Client  Client  AC Client  Client  Client  Client  AC Client  AC Client  Client  Client  Client  Client  Client  Client  AC Client  AC Client  Client  Client  Client  Client  Client  Client  AC Client  AC Client  Client  Client  Client  Client  Client  Client  AC Client  AC Client  Client	Project   Proj	Project   Proj	Description of the second of t	Description of the class with the class of t	Description  Best of the project of	Double See 2000  Be and the Ltd	She would be a second of the s	Date   Da	Display   Disp	Project   Woodford Aerodrome   Sheet   1 of 1   1 of 1 of



				Hole No.			
<b>MSP</b>		TRIAL PIT LO	G		TP1	72	
WSP 150-182 The Quays	Project			Sheet			
M50 3SP Telephone: 0161 886 2400 Fax:		Woodford Aerodrome	е		1 of	1	
Job No 70004430	Client	Harrow Estates Plc		Date	05-08- 05-08-		
Contractor / Driller N	/lethod/Plant Used	Logged By	Co-Ordinates (NGR)	Grou	ınd Leve	I (m AC	)D)
H & C Plant Hire Ltd	JCB 3CX	J Kinchington	E 389616.050 N 382216.710		87.	000	
SAMPLES & TESTS	Denth	STR	АТА				Install / Backfill

SAMP	LES	& TE	STS	3						STF	RATA					Insta Bac
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick			Des	cription			Legend	Geology	
							-ness)	Crops ov subround	ver brown slightly go ded of various lithol	ravelly fine SA logies. (TOPS	ND. Gravel is OIL)	fine to coarse	e angular to	1/ 1/1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/		
							(0.50)							1/2 × 1/2 × 1/2	TS	
0.50	ES	0				86.50	0.50	Orange b subangu	orown slightly claye lar to rounded of va	y slightly grav arious lithologi	elly fine and m es. (GLACIAL	nedium SAND DEPOSITS).	). Gravel is	0		\$255 \$255 \$355 \$355 \$355 \$355 \$355 \$355
-							- <del>(</del> 1.00)								GDU	
						95 50	1.50									
- 2.00	В					85.50	(1.50)	subangu	brown slightly clay lar and subrrounde	d of various(G	velly SAND. C	Gravel is fine t	o coarse		GDU	
							Length		Shoring/Support:	Γ		Water	Strikes			
							_	.00m	None	Date	Time	Strike	Minutes	Standing	Rei	nark
-		— 3 A			>	<b>T</b>	Width	00m								
D		С				B 1 <u>¥</u>	Orientati degr	on ees from	Stability: Stable	General Rer Trial pit comp observed. No encountered.	lete at 3.00m bo	gl. No visual or dings above ba upon completio	olfactory evidenc ackground record n.	ee of contamin led. Groundwa	ation ater not	
Sca	ale 1:2	:5				I dimens	ions in		gs should be read	in accordance	with the provi	ded Key. Des	scriptions are b	ased on visu	ual and	

			Sheet	•	
<b>WSP</b>		TRIAL PIT LO	G	HOIE IN	<del>-</del> -
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome	•	Sheet	1 of 1
Job No 70004430	Client	Harrow Estates Plc		Date	
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Gr	ound Level (m AOD)
H & C Plant Hire Ltd	JCB 3CX	J Kinchington	E 389689.500 N 382175.440		86.170

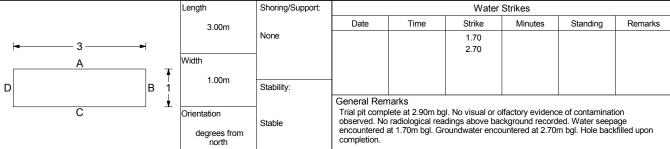
SAMP							Depth			STI	RATA					Inst Bac
Depth	Туре	DID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2	Water	Elev. (mAOD)	1				cription				Geology	
0.10	ES	0				85.97	-(0.20)	lithologie	lightly gravelly fine es. (TOPSOIL)					1/ 2/1/	TS	
0.30	ES	0					-	Brown sl various l	lightly gravelly fine ithologies. (GLACI)	and medium S	SAND. Gravel	is fine to coar	se rounded of			
1.00	В						- - -(2.60) - - -								GDU	
3.00	В				_	83.37 82.97	2.80	Brown si	ilty fine SAND. (GL	ACIAL DEPO	SITS).			× × × × × × × × × × × × × × × × × × ×	GDU	
						02.91		Trial pit α	complete at 3.20m	bgl.						
_							Length		Shoring/Support:				Strikes	01- "		
<b>-</b>		— 3 A			<b>→</b>	<b>T</b>	3 Width	.00m	None	Date	Time	Strike	Minutes	Standing	Rei	mark
D		С			E	B 1 <u>*</u>	Orientati degr	on ees from	Stability:	observed. No	olete at 3,20m bo	adings above ba	olfactory evidenc ackground record n.	e of contamin ed. Groundwa	ation ater not	

<b>WSP</b>			Hole No. <b>TP174</b>						
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Sheet 1 of 1						
Job No 70004430		Client	Date 04-08-14 04-08-14						
Contractor / Driller H & C Plant Hire Ltd	Met	hod/Plant Used JCB 3CX	Logged By  J Kinchington	Co-Ordinates (NGR) E 389899.660 N 382161.740	Gr		nd Level (m AOD) 85.120		
SAMPLES & TESTS						Install / Backfill			
Debty Library (2) PID Debty Library (2) PID Debty Library (3) PID Debty Library (4) PID	Vater	Elev. (mAOD) (Thick		Legend	Geology				

H & C Plant Hire Ltd JC								JCB 3CX J Kinchington E 389899.660 N 382161.740							85.120				
SAME	PLES	& TE	STS	3						STI	RATA		·			Inst			
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)		Description					Legend	Geology	/			
0.10	ES	0					-(0.40)	Brown sli subangul	ghtly gravelly fine ar of various litho	SAND with ro logies (TOPSC	otlets. Gravel is DIL).	s fine to coars	e rounded to	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TS	2525			
0.50	ES	0				84.72	0.40	Firm oran various lit	ge brown mottled hologies. (GLAC	d grey slightly s IAL DEPOSITS	andy CLAY. (3)	Gravel is fine t	o coarse of	10 × 10 ×					
1.00	В						-(0.80) -								GDU	252555			
						83.92	1.20	Reddish I	orown clayey SAI	ND. (GLACIAL	DEPOSITS)								
							- -(1.40) - - -								GDU				
2.60	D					82.52	2.60	Stiff reddi	sh brown slightly	sandy CLAY.	GLACIAL DEF	POSITS)			GDU				
-						82.12	-	Trial pit c	omplete at 3.00m	n bgl.									
							-												
							Length		Shoring/Support:			Water	Strikes			<u></u>			
<b>-</b> 3					—►		3.	00m	None	Date	Time	Strike	Minutes	Standing	Re	mark			
D		Α				B 1	Width 1.	00m	Stability:										
		С				<u>*</u>		ees from	Stable	observed. No	marks blete at 3.00m bg b radiological rea . Hole backfilled u	dings above ba	ckground recor	ce of contamin ded. Groundwa	ation ater not				

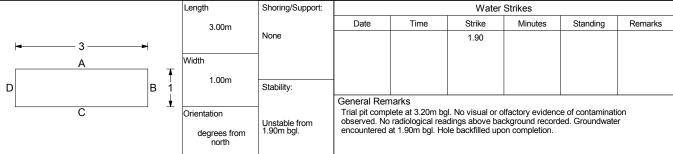
<b>WSP</b>			Hol	e No. <b>TP175</b>			
W3F 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Sheet 1 of 1				
Job No 70004430		Client	Harrow Estates Pl	С	Da	te 04-08-14 04-08-14	
Contractor / Driller	Me	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)	
H & C Plant Hire Ltd		JCB 3CX	J Kinchington	E 389763.250 N 382051.760		84.970	

Туре	_ <u>≥</u>	7	ر (2			Donth									Back
	IId JId	HSV (kN/m2)	P.Per (kN/m.	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	scription			Legend	Geology	,
ES	0					(0.50)	Brown sl and subr	ightly gravelly fine counded of various	SAND with ro lithologies (To	otlets. Gravel is DPSOIL).	s fine to coars	e subangular	\(\frac{1}{2}\) \(\frac{1}{2}\	TS	
ES	0				84.47	0.50	Brown fir	ne and medium SA	ND. (GLACIA	L DEPOSITS)			V V VI		
В						(1.70)								GDU	
				<u>+</u>	82.77	- - - - 2.20	Reddish (GLACIA	brown slightly clay L DEPOSITS).	ey slightly gra	velly SAND. G	ravel is mediu	ım rounded.	0		
В				<b>2</b> -	82.07	(0.70)	•	·						GDU	
						- - - - - -	Trial pit o	complete at 2.90m	bgl.						
						Length		Shoring/Support:			Water	Strikes			
	— 3 A			-			00m	None	Date	Time	Strike 1.70 2.70	Minutes	Standing	Re	mark
	С				B 1 <u>▼</u>	Orientation degree	on ees from	Stability:	Trial pit composserved. No	olete at 2.90m bg o radiological rea	dings above ba	ckground record	ed. Water see	epage	ıpon
	ES B	ES 0  B 3 A	B	B 3 A C	B 3 A C	ES 0   84.47  B   4   2   82.77  B   4   82.07	B	ES 0	ES 0   84.47   0.50   Brown fine and medium SA   (0.50)   84.47   0.50   Brown fine and medium SA   (1.70)   (1	ES 0 0   84.47   0.50   Brown fine and medium SAND. (GLACIA   1.70)	ES 0   Brown fine and medium SAND. (GLACIAL DEPOSITS)    B	ES 0   Brown fine and medium SAND. (GLACIAL DEPOSITS)  B   A	B  Brown fine and medium SAND. (GLACIAL DEPOSITS)  Reddish brown slightly dayey slightly gravelly SAND. Gravel is medium rounded. (GLACIAL DEPOSITS).  CO70  Brown fine and medium SAND. (GLACIAL DEPOSITS)  Reddish brown slightly dayey slightly gravelly SAND. Gravel is medium rounded. (GLACIAL DEPOSITS).  Trial pit complete at 2.90m bgl.  Sabring Support:  Water Strikes  None  Wietth  None  Wietth  None  Wietth  Stability.  General Remarks  Trial pit complete at 2.90m bgl. No visual or offsctory evidence observed. No radiological readings above background record recordinged at 1.70m bgl. Groundwater encountered at 2.70r completion.	B    B	ES 0   Bown fine and medium SAND. (GLACIAL DEPOSITS)   Substitute   Total pit complete at 2.90m bgl.   Stable   Stable



<b>WSP</b>		-	Hole No. <b>TP176</b>				
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Sheet 1 of 1				
Job No 70004430		Client	Date 04-08-14 04-08-14				
Contractor / Driller	Me	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)	
H & C Plant Hire Ltd		JCB 3CX	J Kinchington	E 389859.770 N 382008.330		85.340	
SAMDLES & TESTS			QTD/	<b>ΛΤ</b> Δ		Install /	

SAMP	LES	& TE	STS				Death			STI	RATA				1	Inst Bac
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	cription			Legend	Geology	,
							- - -(0.40)	Brown si angular t	ilghtly gravelly fine to rounded of vario	and medium S us lithologies.	SAND with roo (TOPSOIL)	tlets. Gravel is	s fine to coarse	1/ 1// 1//	TS	300
0.20	ES	0				84.94	<u> </u>							17 317	10	
						04.54	- 0.40	Orange I	brown fine and me	dium SAND. (	GLACIAL DEP	POSITS)				
							-(0.40)								GDU	
			74			84.54	0.80	Firm me	dium strength oran	ge brown mot	tled grey slight	tly gravelly sa	ndy CLAY.	-0		
.00	D						-	Gravel is	s coarse angular of	coal. (GLACI	AL DEPOSITS	3)				
1.00																
							(1.10)							0	GDU	
							-									
							-									
			60		<b>1</b>	83.44	1.90							-0		200
2.00	В				÷		F	Reddish (GLACIA	brown slightly grav AL DEPOSITS)	elly slightly cla	ayey fine SAN	D with rare ro	unded cobbles.	- <del></del> -		
							-							0 .		450
														o		E ST
							(1.30)								GDU	
							-								_	
							-									25.0
							-							o		
						82.14	3.20	Trial pit o	complete at 3.20m	bal.				o		Z
							-	,		-9						
							L									
							-									
	Leng							1	Shoring/Support:				1			
1-		2			- 1		3	.00m	None	Date	Time	Strike 1.90	Minutes	Standing	Rei	mark
		— 3 А			_	7	Width		-							
D						B 1	1	.00m	Stability:							
		С				<u>*</u>	Orientati	on	Lipotoble from	General Rer	olete at 3,20m bo	gl. No visual or o	olfactory evidence	e of contamin	ation	
							degr	ees from orth	Unstable from 1.90m bgl.	encountered	at 1.90m bgl. Ho	ole backfilled up	on completion.	a. Groundwa	aiCi	



	<b> </b>	NS	P						TRIAL I	PIT LO	G		Hole	e No.	P17	77			
	150-182 M5 ephone:	0 3SP	•	00		Project			Woodford	Aerodrome	e		She		l of	1			
Job No	7000	)44;	30			Client Harrow Estates Plc								Date 31-07-14 31-07-14					
Contract	tor / Dr	iller			Ме	ethod/Plant Used Logged By Co-Ordinates (NGR)								Ground Level (m AOD)					
H & 0	C Plan	t Hir	e Ltd			J	CB 3C)	×	J. W	atson		389264.150 382113.540			87.270				
SAM	IPLES	& TE	STS	3						STR	ATA						Install / Backfill		
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen	Water	Elev. (mAOD	Depth (Thick -ness)			Desc	ription			L	.egend	Geology	,		
0.10-0.20	ES	0					(0.30)	fine angu	ROUND: Grass or llar of ash and clin	htly gravelly SA	ND. Grav	vel is		MG					
_						86.97	0.30	PROBABLE MADE GROUND: Orange brown fine and medium SAND.											
_							86.47 0.80 Stiff dark greyish brown sandy CLAY with abundant rootlets.									MG			
0.80-0.90 -0.80-0.90	D ES	0				86.47										GDU			
-			80			86.17	1.10	Firm med CLAY. G	dium strength redo	y									
-			60 68				-	DEPOSI	IS)					-  -  -  -					
1.50	D		50				-(1.00)									GDU			
2.00	D		78 80				-												
-						85.17	(0.30)		green clayey medi	um and coarse s	SAND. (GLA	CIAL DEPOSIT	ΓS)	-		GDU			
2.50	D					84.87	-(0.20)	Firm loca Gravel is	ally stiff reddish bro fine and medium	own mottled gre- rounded of vario	y slightly san	dy slightly grav s. (GLACIAL D	elly CLAY		<u>-</u>	GDU			
-						04.07	- 2.60	Trial pit o	complete at 2.6m b	ogl					* *				
_							-												
2.50							-												
-							-												
_							-												
_							-												
							Length		Shoring/Support:			Water							
<b> </b>		- 2.8	3 —			-1		.80m	None	Date	Time	Strike	Minute	s Sta	anding	Rei	marks		
D		Α				■ B 0.6	Width 0	.60m	Stability:										
		С				J	Orientati	on	Stable	General Rema Trial pit comple observed. No r encountered. H	ete at 2.6m bgl radiological rea	. No visual or olfa	kground re	lence of con	ntamina oundwa	ition			

08 WSP TP LOG STAND 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.

degrees from north

		A I C											Hole N			
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		P						TRIAL F	PIT LO	G			TP17	78	
	50-182 M50 hone: 0	0 3SP	•	00	F	Project			Woodford	Aerodrom	e		Sheet	1 of	1	
Job No	7000	0443	30		(	Client			Harrow E	states Plc			Date	31-07- 31-07-	·14 ·14	
Contracto	or / Dr	iller		ľ	Meth	nod/Pla	nt Use	d	Logged By		Co-Ordin	ates (NGR)	G	round Level	l (m AC	DD)
H & C	Plan	t Hire	e Ltd			J	CB 3C	Κ	J. Wa	atson		389309.440 382142.240		87.3	380	
SAMF	1	1	1	_			Depth			STR	RATA				I	Install / Backfill
Depth	Туре	PID (ppm/	HSV (kN/m2	P.Pen (kN/m2)	Water	Elev. (mAOD)				Desc	cription			Legend	Geology	<i>'</i>
0.10-0.20	ES	0					(0.70)	fine and r	ROUND: Grass ov nedium of brick lin	ver brown sligh nestone and gl	tly clayey sligl ass.	ntly gravelly SAI	ND. Gravel	is	MG	
1.00 -1.00-1.20 - - - - - - - - - - - - - - - - - - -	D ES D	0	70 60 56 50 60			86.68	(1.90)	Firm loca gravelly ( DEPOSIT	lly stiff medium str LAY. Gravel is fin S)	e and medium	brown mottled	l grey slightly sa arious lithologie	ndy slightly s. (GLACIA	L - 0	GDU	
26.00   1		- 2.8 A				B 0.6 <u>↓</u>	Width 0 Orientati	.80m .60m on ees from	Shoring/Support: None Stability:	observed. No	lete at 2.6m bgl radiological rea	Water S Strike  No visual or olfardings above backupon completion.	Minutes  ctory evidence		ition	marks
Sca	ale 1:2	25				dimens		metres. Lo	gs should be read	in accordance	with the provi	ided Key. Descr	iptions are	based on visu	ual and	

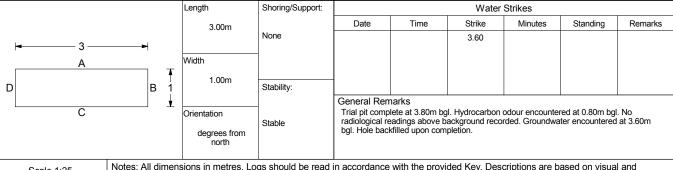
<b>WSP</b>			TRIAL PIT LO	<b>3</b>	Hole No	TP1	79	
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome	;	Sheet	1 of	1	
Job No 70004430		Client	Harrow Estates Plc		Date	01-08- 01-08-		
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)	Gro	ound Leve	l (m AO	D)
H & C Plant Hire Ltd		JCB 3CX	J Kinchington	E 389965.800 N 381573.310		83.	760	
SAMPLES & TESTS			STRA	ATA				Install / Backfill
Debth Library (PmdV) Pen	(KIN/IIIZ) Water	Elev. (mAOD) (Thick -ness)	Descr	iption		Legend	Geology	DOOKIII

OAW	LES			_			Donth			STF	RATA					Insta Back
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	cription			Legend	Geology	
0.10	ES	0				02.20	-(0.40)	MADE G to coarse	ROUND: Long gra e angular to rounde	ss over browr d of various li	gravelly SAN thologies (TOF	D with rootlets PSOIL).	s. Gravel is fine		GMG	
0.50	ES	5	40			83.36	- 0.40 	MADE G with frag	ROUND: Soft brov ments of brick sand	vn streaked bl dstone and pla	ack slightly sa astic - strong h	ndy slightly gr ydrocarbon o	avelly CLAY dour.		CMG	
- 2.20 2.50	ES D	0	46			81.56	-		gl; ceramic land dr dium strength brow			. (GLACIAL D	EPOSITS)		× × × × × × × × × × × × × × × × × × ×	
3.20	В		52			80.56	-(1.00) - - - 3.20 -(0.20)	Grey cla	yey medium and co	parse SAND. (	GLACIAL DEI	POSITS)			GDU	
						80.36	3.40	Trial pit o	complete at 3.40m	bgl.						<del>DU</del>
							Length		Shoring/Support:			Water	Strikes			
<b>-</b>		— 3 A			<b>→</b>	<b>T</b>	Width	.00m	None	Date	Time	Strike	Minutes	Standing	Rer	marks
D		С				B 1	Orientati degr		Stability:	radiological r	olete at 3.40m bo	gl. Hydrocarbon packground reco	odour encountered	d at 0.40m r not encou	bgl. No intered. H	ole

			Length	Shoring/Support:			Water	Strikes		
			3.00m		Date	Time	Strike	Minutes	Standing	Remarks
<u> </u>	3			None						
1-	٥	-1	Width							
D	A	B 1	1.00m	Stability:						
	С	↓	Orientation  degrees from north	Stable		lete at 3.40m bg		odour encounter rded. Groundwa		
		Nistani Ali dinasan	siona in matros. La				ded Keir Dee			Laural

<b>WSP</b>		TRIAL PIT L	OG	TP180
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodro	ome	Sheet 1 of 1
Job No 70004430	Client	Harrow Estates F	Plc	Date 01-08-14 01-08-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
H & C Plant Hire Ltd	JCB 3CX	J Kinchington	E 389801.650 N 381249.670	81.930

SAI	MPLES	8   T	ES	TS							STF	RATA					Instal Backf	
Depth	т Тур	DID (Vana)	HSV A	(kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOE	Depth (Thick -ness)			Des	cription			Legend	Geology		
-							81.7	-(0.20)	MADE G coarse a	ROUND: Brown sli	ightly gravelly ed of various l	fine SAND wit ithologies (TC	th rootlets. Gra PSOIL).	avel is fine to		GMG		
-							81.6		MADE G	ROUND: Yellowish	n brown gravel	ly SAND with	frequent cobb	les of yellow		GMG		
0.30 - - - -	ES							(0.50)	MADE G with inclu sandston	sandstone. ROUND: Grey brousions of glass bott ne.	wn sandy fine les, metal, wir	to coarse ang e. Occasional	ular to subrou angular cobbl	nded GRAVEL es of		GMG		
0.80	ES	3					81.1	3 0.80	MADE G	ROUND: Soft med	ium strength o	grey streaked	black slightly	gravelly sandy				
- - - - - - - - -	D			44			70.7	-(1.40)	CLAY. G	iravel is fine to coar bon odour.	rse angular to	subrounded o	f variouš litho	ogies -		CMG		
- 2.20	ES	0				1	79.7	- - - - -(1.40) - -	MADE GROUND: Grey and dark grey slightly gravelly SAND. Gravel is fine to coarse rounded.  GMG  Stiff high strength reddish brown slightly gravelly CLAY. (GLACIAL DEPOSITS)									
3.60	ES	0	9	98		<u> </u>	78.1	-(0.20)	Stiff high	strength reddish b	rown slightly g	ravelly CLAY.	(GLACIAL DI	EPOSITS)	× ×	GDU	2	
-							70.1	3.00		completed at 3.80m	ı bgl.						NA.	
								Length	1	Shoring/Support:			Water	Strikes				
								3	3.00m	None	Date	Time	Strike 3.60	Minutes	Standing	Rei	narks	
D		3				→  	B 1 ±	Orientat deg	.00m ion rees from	Stability:	radiological re	lete at 3.80m bg	gl. Hydrocarbon ackground reco	odour encountered rded. Groundwater	at 0.80m t encounter	ogl. No ed at 3.60	)m	
;	Scale 1	:25					dimen entifica	sions in		gs should be read	in accordance	with the provi	ided Key. Des	criptions are bas	ed on visu	ual and		



<b>WSP</b>			TRIAL PIT LO		Hol	e No. <b>TP181</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome	е	She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 01-08-14 01-08-14
Contractor / Driller	Met	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
H & C Plant Hire Ltd		JCB 3CX	J Kinchington	E 389850.460 N 381243.730		82.630

SAMP	LES	& TE	STS							STF	RATA					Insta
Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Des	cription			Legend	Geology	
						82.43	-(0.20) 0.20	MADE G to subrou	ROUND: Brown sl unded of sandstone	ightly gravelly and various l	fine SAND. G lithologies with	ravel is fine to rootlets (TOI	o coarse angular PSOIL).		GMG	
0.30	ES	230				82.23	-(0.20) 0.40	subround	ROUND: Dark gre ded GRAVEL of va <del>40 m bgl; hydrocarl</del>	rious lithologie	es -very strong	ne to coarse a hydrocarbon	ingular to odour.		GMG	Z.
-0.50	ES	5					- - - -(1.20) - -	MADE G	<del>to m ogi; nydrocar</del> i: ROUND: Brown gr to subangular of a	avelly fine to	coarse SAND.		e to coarse		GMG	
						81.03	1.60		ROUND: Reddish	brown sandy f	ine to coarse	angular GRA\	VEL of brick with		GMG	ZZ ZZ
2.00 -2.00	B ES					80.83		MADE G	ROUND: Dark bro	wn slightly sar various litholo	ndy clayey GR gies including	AVEL. Grave	I is fine to coarse		S.110	
						79.83	-(1.00) - - - - 2.80								GMG	
3.00 3.00	D ES		100			79.33	(0.50)	coarse re	strength reddish b ounded. (GLACIAL	DEPOSITS).	grey siigntiy gi	avelly CLAY.	Gravei is fine to		GDU	
						70.00		Trial pit o	complete at 3.30m	bgl.						
							Length		Shoring/Support:		1		Strikes			<u>+</u>
<b>+</b>		— 3 A			<b>-&gt;</b>		3. Width	.00m	None	Date	Time	Strike	Minutes	Standing	Rei	mark
D		С				B 1 <u>¥</u>	Orientation degro	on ees from	Stability:	- 0.40m bgl	lete at 3.30m bo	eadings above	contamination end background record			

<b>WSP</b>			TRIAL PIT	LOC	3	Hol	e No. <b>TP182</b>	
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aer	odrome	r	She	eet 1 of 1	
Job No 70004430		Client	Harrow Estat	es Plc		Da	te 05-08-14 05-08-14	
Contractor / Driller	Me	hod/Plant Used	Logged By		Co-Ordinates (NGR)		Ground Level (m AC	DD)
H & C Plant Hire Ltd		JCB 3CX	J Kinchingt	on	E 389527.500 N 382117.020		86.140	
SAMPLES & TESTS	Ī		·	STRA	ATA		·	Install / Backfill

& TE (Amdd)	1	(kN/m2) S P.Pen	Water	Elev. (mAOD	Depth (Thick -ness)				RATA			I		Ins Ba
	ASH	(kN/m2) P.Pen	Water		(Thick			D						Ва
					nooco)			Desc	cription			Legend	Geology	
0				85.94	-(0.20)	MADE GR is angular	OUND: Crops ov to subrounded of	er brown slight sandstone ar	tly gravelly fin nd brick and v	e and mediur arious litholog	n SAND. Gravel jies		GMG	
				00.0	(0.30)	MADE GR subrounde	OUND: Light broved of sandstone w	wn gravelly find ith angular cob	e to coarse Sables.	AND. Gravel	s angular to		GMG	\$25.00 \$25.00
				85.64	0.50	MADE GR coarse.	OUND: Orange b	rown and grey	slightly grave	elly CLAY. Gr	avel is fine to			
					(0.50)	0.80 m bgl	l; 100mm ceramic	land drain					CMG	
٥	40			85.14	1.00	Firm medi	um strength orang	ge brown mottl	led grey sand	y CLAY. (GLA	CIAL			
					(0.70)	DEPOSIT	5)						CDII	
					(0.70)								GDO	
				84.44	1.70	_		0.4410 (01.4	OLAL DEDOC	NITO)				农
				84.14	(0.30)	Brown gre	y fine and mediun	n SAND. (GLA	ACIAL DEPOS	SIIS)			GDU	
	60	) 		0	-	Firm medi rounded of	um strength reddi f various lithologie	sh brown sligh es. (GLACIAL I	ntly gravelly C DEPOSITS)	LAY. Gravel i	s fine to coarse			STORY STORY
					-(0.80)								GDU	
					-									
				83.34	2.80	Trial pit co	mplete at 2.80m l	ogl						18
					-									
					-									
					-									
					-									
					Length		Shoring/Support:			Water	Strikes			
						00m		Date	Time	Strike	Minutes	Standing	Re	marl
— 3 A				4	Width		None							
				B 1	1.	00m	Stability:							
С	;			<u>↓</u>	degr	ees from	Stable	Trial pit compl observed. No	lete at 2.80m bo	dings above ba	ckground recorded	of contamina . Groundwa	ation ater not	
	A	- 3 - A - C	- 3 A C	- 3 A C - Notes: A	84.44  84.14  83.34  83.34  C  Notes: All dimens	60  84.44 1.70  (0.30)  84.14 2.00  -(0.80)  -(0	0	60  84.44 1.70  Brown grey fine and medium  (0.30) 84.14 2.00  Firm medium strength reddirence of the control o	60  84.44 1.70  Brown grey fine and medium SAND. (GLACIAL  (0.30)  84.14 2.00  Firm medium strength reddish brown slight rounded of various lithologies. (GLACIAL  (0.80)	Brown grey fine and medium SAND. (GLACIAL DEPOS  (0.30)  84.14	84.44 1.70  Brown grey fine and medium SAND. (GLACIAL DEPOSITS)  (0.30) 84.14 2.00  Firm medium strength reddish brown slightly gravelly CLAY. Gravel is rounded of various lithologies. (GLACIAL DEPOSITS)  83.34 2.80  Trial pit complete at 2.80m bgl  Trial pit complete at 2.80m bgl  None  Width  1.00m  Stability:  General Remarks  Trial pit complete at 2.80m bgl, No visual or observed. No radiological readings above be encountered. Hole backfilled upon completion of the provided Key. Des	Brown grey fine and medium SAND. (GLACIAL DEPOSITS)   0.30    84.14	BEPOSITS)  (0.70)  84.44 1.70  Brown grey fine and medium SAND. (GLACIAL DEPOSITS)  (0.30)  84.14 2.00  Firm medium strength reddish brown slightly gravelly CLAY. Gravel is fine to coarse rounded of various lithologies, (GLACIAL DEPOSITS)  (0.80)  83.34 2.80  Trial pit complete at 2.80m bgl  Trial pit complete at 2.80m bgl  Trial pit complete at 2.80m bgl  Ceneral Remarks  General Remarks  Trial pit complete at 2.80m bgl, No visual or olfactory evidence of contamin observed. No radiological readings above background recorded. Groundwen encountered. Hole backfilled upon completion.	DEPOSITS

		V	VS SP	P						TRIAL F	PIT LO	G		Hole	No.	01	
	150 Teleph	0-182 T M50 one: 0	The Q	uays 86 24	00		Project			Woodford	Aerodrom	e		Shee	et 1 of	1	
Job N		000	443	30		,	Client			Harrow E	states Plc			Date	e 02-07- 02-07-	·14 ·14	
Contra	actor	/ Dril	ller			Meth	nod/Pla	nt Use	ed	Logged By		Co-Ordina	ates (NGR)		Ground Leve	I (m AC	DD)
Н	& C F	Plant	Hire	e Ltd			J	CB 3C	X		Geever		389829.310 381761.920	.	86.3		ŕ
SA	AMPL	ES 8	& TE	STS	 }						STR	ATA					Install /
Dep	th	Гуре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)	MADE G	ROUND: Brown sl and gravel of conc	ightly clayey sli	cription ightly cobbly g nd brick.	gravelly SAND	with rootle		Geology	/
1/12/14							84.86	(1.50)								GMG	
08 WSP TP LOG STANDARD WOODFORD LOGG - COMBINED-100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1 03.GDT 11/12/14							-										
S907								Length		Shoring/Support:	Date	Time	Water Strike	Strikes Minutes	Standing	Re	marks
VOODFORD    T   T   T   T   T   T   T   T   T	3 ————————————————————————————————————					<b>→</b>	<del>-</del>	Width	3.00m	None	Date	Time	June	wintales	Standing	1/6	uino
D ARD							B 1	1	1.00m	Stability:							
TP LOG STAND,			С				<u>*</u>		ion rees from north	Stable	No visual or o No radiologica Groundwater i	ete at 0.70m in lfactory evidenc	ce of contaminati re background red.		d.		
08 WSF	Scale	1:18.	75				l dimens dentificat		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	criptions ar	e based on visi	ual and	

			NS	P							TRIAL F	PIT LO	G		Hole No.	ТРВ0	2	
	Tel	150-182 M5 ephone:	0 3SP		-00		Proje	ect			Woodford	Aerodrome	е		Sheet	1 of 1	1	
	Job No						Clien	.+							Date			
	300 110	7000	0443	30			Clien	IL			Harrow E	states Plc			Date	02-07-1 02-07-1		
	Contrac	tor / Dr	iller			Meti	hod/F	Plai	nt Use	d	Logged By		Co-Ordina	ates (NGR)	Gro	und Level	(m AO	D)
	Н&	C Plan	t Hire	e Ltd				JC	CB 3C	X	S McG	Seever	E N	389889.890 381750.870		86.0	10	
	SAM	1PLES										STR	ATA					Install / Backfill
	Depth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Ele <sup>o</sup>	ev. OD)	Depth (Thick -ness)			Desc	ription			Legend	Geology	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14			3)	3				5.26	-ness) -n	fine to co	ROUND: Brown slarse angular to rou	unded of variou	s lithologies.	Water \$	Strikes		GMG	
OT C									3	3.00m	None	Date	Time	Strike	Minutes	Standing	Ren	narks
)FOR	<b> </b>		— <b>3</b>			-					None							
MOOI		Α							Width 1	.00m								
DARE	D						B 1		'		Stability:	General Rema	arks					
P TP LOG STAN			С				<u>.</u>		1	rees from north	Stable	Trial pit comple No visual or oli No radiological Groundwater n Hole backfilled	ete at 0.70m int factory evidenc I readings abov not encountered I upon completi	e of contamination re background reduced. d. on.	corded.			
08 WS	Sc	ale 1:18	3.75				ll dime dentifi			metres. Lo	gs should be read	in accordance v	with the provi	ded Key. Desc	riptions are ba	sed on visua	al and	

		<b> </b>		P						TRIAL F	PIT LO	G		Hole No	TPBO	)3	
	1	50-182	SP The Q 3SP	uays		Ī	Project							Sheet			
	Tele	ohone:	0161 8 ax:	386 24	00					Woodford	Aerodrom	е			1 of	1	
	Job No	7000	)443	30		(	Client			Harrow E	states Plc			Date	02-07-1 02-07-1	14 14	
	Contracto	or / Dr	iller			Meth	nod/Pla	nt Use	d	Logged By		Co-Ordina	ates (NGR)	Gro	und Level	(m AO	D)
	Н & С	Plan	t Hire	e Ltd			J(	CB 3C)	K	S McG	Geever	E	389901.570 381784.020		85.8		,
	SAMI	PLES	& TE	STS	3						STR	ATA					Install / Backfill
	Depth	Туре	PID (bpmV)	SV I/m2)	Pen I/m2)	Water	Elev.	Depth			Desc	cription			Legend (	Geoloav	
	-	7,62	dd)	ΙX	G. S.	, M	(mAOD)	-ness)  -(0.60)	MADE G coarse a	ROUND: Brown sli ngular to well round	ightly clayey gr	avelly SAND	with rootlets. C	Gravel is fine to		GMG	
	- - -						85.29	0.60									
	- - -							-									
4	- - -							-									
E1.03.GDT 11/12/14	-							- - -									
J WSPETEMPLAT	- - 							-									
ATE VERSION.GF	- - -							- - -									
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1	- - -							- - -									
COMBINED	-							-									
- S90								Length		Shoring/Support:			Water		O		
DFORD L	<b> </b>		— 3			<b></b>			.00m	None	Date	Time	Strike	Minutes	Standing	Rer	marks
ARD WOC	D		A				<b>∓</b> B 1	Width 1	.00m	Stability:							
TP LOG STAND,			С				<u>*</u>		rees from	Stable	No visual or of No radiological Groundwater is	ete at 0.70m int	e of contaminati e background re f.				
08 WSF	Sca	le 1:18	.75				l dimens dentifica		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are ba	ased on visu	al and	

	J	<b> </b>		P						TRIAL F	PIT LO	G		Hole No.	TPB	05	
		50-182 M5 ohone:	0 3SP	•		-	Project			Woodford	Aerodrome	e		Sheet	1 of	1	
		7000		30			Client				states Plc		4100	Date	30-07- 30-07-	14	
	Contractor H & C			e Lto		Met	hod/Pla J	nt Use CB 3C		Logged By J. Wa	atson	Co-Ordina	etes (NGR) E 0.000 N 0.000	Grou	und Level	(m AC	D)
	SAME	PLES	& TE	ST	S						STR	ATA					Install / Backfill
	Depth	Туре	PID (ppmV)	HSV	(KN/MZ) P.Pen (KN/M2)	Water	Elev. (mAOD	Depth (Thick -ness)			Desc	ription			Legend	Geology	
	-							(0.50)	and cobb	ROUND: Dark bro lles are of concrete th occasional reba	e asphalt brick of	elly SAND wit drainage cera	h abundant cot mics wood slat	obles. Gravel e sandstone		MG	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1.03.GDT 11/12/14	- 0.50-1.50	B ES	0					(0.50)	Stiff oran	ROUND: Firm san nd cobbles are of c e plastic with occa  ge brown mottled g d medium of various	greenish grey s us lithologies. (i	t brick draina	ge ceramics wo	ood slate		MG	
OGS - C		1	1	1	1		1	Length	<u>I</u>	Shoring/Support:	D. I.	T'	Water S		Ot"		
VSP TP LOG STANDARD WOODFORD LO	D	le 1:18	- 2.8 A					Width  Orientati  degi	rees from north	Stability: Stable gs should be read	contamination Groundwater r	eted within bun observed. No r not encountered	Strike  d - complete at 2. adiological readir i. Hole backfilled ded Key. Descr	gs above backg upon completion	round recor	y evideno	marks ce of
08 🗸	Sca	e 1.18	0.75				dentifica					F					

			V		P						TRIAL F	PIT LO	G		Hole No.	TPB	06	
			0-182 M50 none: (	3SP		00		Project			Woodford	Aerodrome	e		Sheet	1 of	1	
	Job		7000	)443	30			Client			Harrow E	states Plc			Date	30-07- 30-07-	14 14	
		tracto			e Ltd		Meti	hod/Pla	int Use		Logged By	atson	Co-Ordina	etes (NGR) E 0.000 N 0.000	Gro	und Level	(m AO	DD)
	S	SAMP	LES	& TE	STS	3						STR	ATA		<u> </u>			Install / Backfill
	De	epth	Туре	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD	Depth (Thick -ness)			Desc	ription			Legend	Geology	
08 WSP TP LOG STANDARD WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14			ES B	0					(1.50)	and cobb plastic wi	ROUND: Dark bro ples are of concrete ith occasional reba	e asphalt brick o	elly SAND with trainage cera	h abundant co	bbles. Gravel te sandstone		MG	
LOGS -									Length	. 00	Shoring/Support:	Date	Time	Water Strike	Strikes Minutes	Standing	Rer	marks
ARD WOODFORD I	₽	<b>←</b>		– 2.8 <u>A</u>	3 —		<b>&gt;</b>	 B 0.6	Width	2.80m 0.60m	None Stability:			Juind	willutes	Gianung	Ker	nains
TP LOG STAND/				С				<u> </u>		rees from	Stable	contamination	eted within bun observed. No r	adiological readi	.5m bgl. No visu ngs above back upon completion	ground recor	y evidenc ded.	ce of
08 WSP		Scale	1:18	.75				II dimens dentifica		metres. Lo	gs should be read	in accordance	with the provi	ded Key. Desc	criptions are ba	sed on visu	ual and	

## Hole No. **WINDOW SAMPLE LOG WS101** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 26-06-14 70004430 Harrow Estates Plc 26-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389621.720 N 382842.010 **Premier Tracker Compact** Dynamic Sampling Ltd 90.850 J Watson

SA	MPLE	S & TE	STS									STRAT	A				Insta Back
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Dia 50 mn
							00.53	-ness) _ _(0.32)	MAE	DE GROUND:	Reinforced (	CONCRETE.			2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CONC	
0.40-0.60	ES		0	110 120 122 128			90.53 90.50		\med Stiff	lium of various	s lithologies. slightly reddis	andy gravelly (sh brown sands lithologies. (G	v slightly grav	ellv CLAY.		MG	
1.00-1.45	D (S)	3,2,2 3,2,2 N=9.		120 100				 _(1.45) _ - -								GDU	2222
				50 56			89.05	1.80	1.50	m bgl; becon	ning medium	strength					SE SE
1.80-2.00	ES D (S)	3,2,2 3,4,3	0	96			88.60	- (0.45)	Med DEF	ium dense ora POSITS)	ange brown m	edium and co	arse SAND. (	GLACIAL		GDU	125.50 12
		N=12.					88.40	-	vario	brown slightly ous lithologies dow sample c	. (GLACIAL D		Y. Gravel is fi	ne angular of	-0	GDU	
-	Hole	Diamete							<i>y</i> ery				Water	Strikes			
Depth		Diameter neter (mm	_	emark	re	Core -	Top (m)	Recov Core Bas		% Recovery	Date	Time	Water Strike	Strikes Minutes	Standing	Ca	asing
Борит	Diali	ico (iiii)		SITIGIF		Sole	. op (III)	COI C DAS	~ (III)	Ancovery	General Rer Windowless : contaminatio	narks sample hole con	nplete at 2.45m adiological reac	bgl. No visual or o dings above backg d upon completion	Ifactory evic	dence of	AUI IY
Scal	e 1:37	7.5				ensio		etres. Lo	ogs sh	ould be read i	Groundwater	not encountered	d. Hole backfille	d upon completion	•		

ကျွ																		
CC		Hole	Diameter	-					Reco	very				Water	Strikes			
220	Depth	Diam	neter (mm)		Remark	s	Core 7	op (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
LE LOG WOODF(																		
WINDOW SAMP												contamination	ample hole com observed. No r	nplete at 2.45m t adiological read I. Hole backfilled	ings above back	kground record	ence of ed.	

## Hole No. **WINDOW SAMPLE LOG** WS102 Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 26-06-14 70004430 Harrow Estates Plc 26-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389506.320 **Premier Tracker Compact** 90.640 Dynamic Sampling Ltd J Watson N 382772.590

SA	MPLE	S & TE	STS									STRAT	A				Insta Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Dia 50 mr
							00.40	(0.45)	MAE	DE GROUND:	CONCRETE					CONC	
							90.19	- 0.45 - 0.60				ry clayey sand	y fine to coars	se subangular	P 1 1	MG	
0.60-0.80	ES	٠	0				89.79	- 0.85	MAE				oarse subang	ular GRAVEL of		MG	
							89.74 89.64		$\sim$	dstone. DE GROUND:	Red brown n	nedium SAND				MG MG	
1.00-1.45	D (S)	8,9,9 4,5,4 N=22.						- -(0.60)	of sa	andstone and	brick.			is fine to coarse		MG	
							89.04		MAL Grav	DE GROUND: vel is fine to m	Dark orange ledium suban	brown gravelly gular of sands	y medium to c tone.	oarse SAND.		WIG	
							00.04	-		DBABLE MAD se SAND.	E GROUND:	Loose dark or	ange brown m	nedium and	XX		
2.00-2.45	D	2,1,1						(0.70)								MG	
	(S)	1,2,2 N=6.					88.34	2.30	1/		-to-cotto de d			(OLIDEDEIOIAL			
				16		\$\frac{1}{2}\$	88.14	2.50	DEÉ	POSITS)			sandy CLAY.	(SUPERFICIAL		SUPD	
2.70-2.90	ES		3				87.94	2.70		dark brown a		AT. ND with a fair	at budra aarbar	a adaur		SUPD	
		•					87.64	(0.30)	(SUI	PĔRÉICIAL D	EPOŚITS)					SUPD	
3.00-3.45	D S (S)	3W,SW,SV 1,0,0 N=0.	v 					- -	Very with	soft very low a faint hydroc	strength dark arbon odour.	greenish grey (SUPERFICIA	slightly silty a L DEPOSITS	and sandy CLAY )			
3.10-3.50	ES		5	10				-(0.60) -								SUPD	NO.
				16		1	87.04 86.84	3.60	Dark	k brown mediu	ım SAND. (G	LACIAL DEPO	OSITS)			GDU	
				10		<u>*</u>	00.04	- 3.00	Firm	dark reddish	brown slightly	/ sandy CLAY.	(GLACIAL D	EPOSITS)			
4.00-4.45	D (S)	1,2,2 2,3,3 N=10.						(0.65)								GDU	
		14 10.					86.19	- - 4.45	140								SQ.
								- - - - - - - -	VVIII	dowless samp	ie complete a	at 4.40III bgi					
	Hole	Diameter						Recov	/erv				Water	Strikes			
Depth		neter (mm)		emark	s (	Core 7	Top (m)			% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asin
													3.80		2.50		
											between 2.5	sample hole con to 3.8m bgl. No encountered at	radiological read	bgl. Faint hydrocar dings above backgr installed upon com	ound recor	ded.	
Cool	e 1:37	- 5	Note	es: Al	l dim	ensio	ns in me	etres Lo	nas sh	ould be read i	n accordance	with the provi	ided Key Des	criptions are bas	ed on visi	ıal and	

Š																		
CC		Hole	Diameter	-					Reco	very				Water	Strikes			
240	Depth	Diam	neter (mm)		Remark	(S	Core	Top (m)	Core Ba	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
LE LOG WOODFO														3.80		2.50		
WINDOW SAMP												between 2.5 to	sample hole com o 3.8m bgl. No r encountered at	adiological read	ogl. Faint hydroc ings above back nstalled upon co	ground record	led.	ne

<b>WSP</b>			WINI	DOW SAMPI	LE LOG	Но	le No.	S103	
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Proj	ject		Woodford Aerodro	ome	Sh	eet 1	of 1	
Job No 70004430	Clie	nt		Harrow Estates P	lc	Da		-06-14 -06-14	
Contractor / Driller	Method	/Plant Us	ed	Logged By	Co-Ordinates (NGF	₹)	Ground L	evel (m	AOD)
Dynamic Sampling Ltd	Premie	er Tracke 110	r Compact	J Watson	E 389568.7 N 382768.9			90.700	
SAMPLES & TESTS			D #.	· ·	STRATA	<u> </u>			Install Backf

MPLE	S & TE										STRAT	A				Insta Back
Туре	Test Result	PID ()	HSV kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)	(Thick			D	escription			Legend	Geology	Dia 50 mn
		Ť				90 54	· '	MAE	DE GROUND:	Reinforced 0	CONCRETE.			P 5 4	CONC	
												coarse angula	ar GRAVEL of		MG	
ES	٠	0					- - - -	Firm	reddish brow vel is fine and	vn mottled gre medium roun	v slightly sand	y slightly grav	relly CLAY. nologies.			
(S)	1,1,2 1,2,1 N=6.		110 102 90					1.30	) m bgl; stiff hi	gh strength					GDU	
D (S)	1,2,1 2,1,2 N=6.		74			00.25	- - - - - 245		) m bgl; firm m	edium strengt	th					
						88.25	∠. <del>4</del> 5		dowless samp	le complete a	t 2.45m bgl					7
Hole	Diamete							Wetv				Water	Strikes			
		_	emark	S	Core -	Top (m)			% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
										Windowless s	sample hole com	iplete at 2.45m adiological read 1. Hole installed	bgl. No visual or or dings above back upon completion.	olfactory evid round recor Response :	dence of ded.	
	Type ES (S)	Type Result  ES .  (S) 1,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1	Type Result QQ ( ) Q ( )	Type   Test Result   G  (\frac{1}{N} \frac{1}{N} \frac	Type   Test Result   Cauly   C	Type   Test Result   G    G    G    G    G    G    G	Type   Test Result	Type   Test Result	Type	Test Result	Type	Type Result Q S S S S S S S S S S S S S S S S S S	Type Test Result C S S S S S S S S S S S S S S S S S S	Type   Test   Result   Result	Type Result   Result	Type   Test   Result   Resul

22												
Ö	ŀ	Hole Diameter			Recovery				Water	Strikes		
S S	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
ELOG WOODF												
NDOW SAMPL							contamination	sample hole com observed. No r	nplete at 2.45m t adiological read I. Hole installed	ings above back	kground recorde	ed.

<b>WSP</b>		WINE	DOW SAMPLE		Hol	e No. <b>WS104</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 26-06-14 26-06-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Р	remier Tracker Compact 110	J Watson	E 389657.650 N 382780.910		90.830
CAMPLES & TESTS				CTDATA		Install /

SA	MPLE	S & TE	STS									STRAT	Ά				Inst
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Di 50 mi
							90.67		Reinf	orced CONC	RETE.				2 4 4 6	CONC	
0.20-0.30	ES		0				90.53	L				ashy fine and r with some sa		ngular GRAVEL	XX	MG	
0.40-0.50	ES			132				- 1	Stiff r	nigh strength	brown mottled	d grey slightly	sandy slightly	gravelly CLAY.			
				138				l l	Grave	el is fine angu	ılar of various	lithologies. (G	BLACIAL DEP	OSITS)			
				140				-									
1.00-1.45	D	1,2,3						(1.40)	0.90	- 1.00 m bgl;	band of orang	gish brown fine	e sand			GDU	
1.00-1.43	(S)	2,3,3 N=11.														<u> </u>	
		14-11.															
				70				<u> </u>	1.50	m bgl; becom	ning medium s	strength					
				76			89.13	1.70	Medi	um dense ora	ange brown fir	ne SAND. (GL	ACIAL DEPO	SITS)			
								-			<b>3</b> - 1	(-		,			
2.00-2.45	D (S)	2,3,3 4,4,5						(0.75)								GDU	
	(5)	N=16.															绝
							88.38	- 2.45	Wind	owless samp	le complete a	ıt 2 45m bal					£\$
											•	· ·					
								- 1									
								- 1									
								<u> </u>									
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	11.1.	D'			$\frac{1}{1}$			<u> </u>					10/-1	Object			
Depth		Diameter neter (mm)	_	emark	s (	Core 7	Гор (m)	Recov Core Bas		% Recovery	Date	Time	Strike	Strikes Minutes	Standing	Ca	asing
r.		,					/		`	,			-		. 3		
											0						
											contamination	sample hole con n observed. No i	radiological read	bgl. No visual or olfa lings above backgro upon completion. F	ound recor	ded.	0
Scal	e 1:37	.5		es: Al				etres. Lo	ogs sho	ould be read i	n accordance	with the provi	ided Key. Des	criptions are base	ed on visu	ual and	

### Hole No. **WINDOW SAMPLE LOG WS105** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 24-06-14 70004430 Harrow Estates Plc 24-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389435.290 **Premier Tracker Compact** Dynamic Sampling Ltd S McGeever 90.710 N 382702.210

110

241	4DL E	S & TE	сте									STRAT	Λ				Inst
SAI			_	. 6	ر (2	_		Depth				SIRAI					Bad
Depth	Туре	Test Result	Olld (bpmV)	HSV (kN/m2)	P.Per (kN/m)	Water	Elev. (mAOD)	(Thick -ness)			D	escription				Geology	
							90.51	0.20	CON	ICRETE.					944	CONC	
							90.21	(0.30) 0.50	fine	DE GROUND: to coarse very logies.	Black mottled angular to ro	d dark brown a unded of brick	shy gravelly S , clinker and v	SAND. Gravel is various		GMG	
.70	ES		0					(0.70)	MAE	DE GROUND:	Loose reddis ar to rounded	h brown grave of various litho	lly SAND. Gra blogies.	avel is fine and		GMG	
.00		1,0,0				1		Ē Í									
40	(S)	0,1,0 N=1.				Ţ	89.51	1.20	Soft	to firm brown	slightly sandy	organic CLAY	'. (SUPERFIC	CIAL	<u> </u>		S.
.10	D		0					(0.50)		POSITS)		-			<u></u>	SUPD	NO.
						₹	89.01	1.70	Loos	se grey slightly	clayey fine a	nd medium SA	AND. (GLACIA	AL DEPOSITS)			Z
						_		(0.60)			, ,			,		GDU	NY NY
.00	D (S)	2,1,1 0,1,1 N=3.	0				00 44	<u> </u>								ODO	
		14-5.					88.41	2.30	Firm	to stiff reddis	h brown mottl	ed light grey sl	ightly gravelly	slightly sandy	-0		S.
									lithol	Y. Gravel is fil logies. (GLAC	ne and mediu IAL DEPOSI	m subangular ΓS)	to rounded of	various			200
								- 4.5							0	0511	N. S.
.00	D	3,3,3	0					_(1.15) _	3 00	Windowless	sample hole (	complete at 3.4	5m bal			GDU	
.00	(S)	3,4,4 N=14.						-	3.00	Willidowiess s	sample note (	ompiete at 5.4	om bgi				
							87.26	- 3.45							· · ·		
								-									
	_	Diameter	_					Recov						Strikes			
Depth	Diam	eter (mm)	R	temark	s	Core 7	Top (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike 1.20	Minutes	Standing	Ca	asino
													1.80				
											No visual or on No radiologic Groundwater	narks sample hole com olfactory evidence al readings abovencountered at d upon completion	e of contaminat e background r 1.20 to 1.80m b	ion observed. ecorded.			
Scale	1:37	.5		es: Al				etres. Lo	ogs sh	ould be read i	n accordance	with the provi	ded Key. Des	criptions are bas	ed on visu	ual and	

ΩĮ																		
3		Hole	Diameter						Reco	very				Water	Strikes			
욁	Depth	Diam	neter (mm)		Remark	s	Core 7	Гор (т)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	С	asing
WOODF														1.20 1.80				
LE LOG																		
WINDOW SAMP.												No visual or o No radiologica Groundwater	narks sample hole com olfactory evidence al readings abovencountered at d upon completi	e of contaminative background re 1.20 to 1.80m by	ion observed. ecorded.			

		VSP					1	WIN	DOW SAMPLE	LOG	Hole		<b>VS</b> 1	06	
	150-182 M50 phone: (	SP The Quays ) 3SP )161 886 2 ax:			Proj	ect			Woodford Aerodrome	;	Shee		1 of	1	
Job No	7000	)4430			Clie	nt			Harrow Estates Plc		Date	2	24-06- 24-06-		
Contract Dynan		ller npling L	td			er Tra	t Used acker Co	ompact	Logged By S McGeever	Co-Ordinates (NGR) E 389539.910 N 382717.570		Ground	d Level	,	D)
9	AMDI F	ES & TE	272							STRATA					Install
Depth	Туре	1		HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)		Des	scription			Legend	Geology	Backfi Dia. 50 mm
							90.50	-ness) - 0.20	MADE GROUND: CONCRETE.			,		CONC	
0.50			0				90.25	- - 0.45 -	MADE GROUND: Black mottled of fine to coarse subrounded to well (lithologies.  Firm reddish brown mottled light of	rounded of brick, clinker and v	elly CLA	AY.		GMG	
	ES D (S)	1,1,2 3,3,3 N=11.	0 0	98				- - - - - - - - - -	Gravel is fine and medium angula (GLACIAL DEPOSITS)	r to well rounded of various lith	nologies	S. [		GDU	
	D 2,2,3 0 88.70 2 88.70 2								2.0m bgl; windowless sample hold	e complete					

S - COMBINED -100914 - UP TO DATE VERSION.GPJ WSP								-									
LOGS		Hole Diame	ter					Recov	very				Water	Strikes			
-ORI	Depth	Diameter (m	ım) R	Remarks	s (	Core T	op (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
08 WSP WINDOW SAMPLE LOG WOODFORD											General Rem Windowless s contamination recorded.Grou from 1.00 to 2	sample hole con n observed. No i undwater not en	nplete at 2.0m by adiological read accuntered.Hole	gl. No visual or o ings above bacl installed upon c	olfactory evider ground ompletion. Res	nce of sponse zo	one
08 WSP	Scal	e 1:37.5	Not mai	es: All nual id	dim entif	ensior	ns in m n.	etres. Lo	gs sh	ould be read	n accordance	with the provi	ded Key. Desc	criptions are b	ased on visua	al and	

### Hole No. WS107 **WINDOW SAMPLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 24-06-14 70004430 Harrow Estates Plc 24-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389469.160 **Premier Tracker Compact** 90.700 Dynamic Sampling Ltd S McGeever N 382680.550

SAI	MPLE	S & TE	STS									STRAT	A				Insta
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Dia 50 mn
-							90.53	<u>-ness)</u> - 0.17	MAE	DE GROUND:	CONCRETE				P 4 4 5	CONC	<del>}</del>
0.20			0				90.30		Grav		arse very and	dark brown s	slightly gravelly ed of brick, sa	ashy SAND.		GMG	
0.50			0				90.15 90.10	- 0.55 - 0.60	MAE GRA	various litholo DE GROUND: AVEL of sands	Grey sandy fi tone and vari	ous lithologies	very angular to	subrounded	××	GMG GMG	
1.00	D (S)	1,1,2 4,4,4 N=14.	0	80				- - - -(1.15)	Firm	DE GROUND: n becoming stift dy CLAY. Grav logies. (GLAC	f reddish brovel is fine and	vn mottled ligh medium angu	nt grey slightly llar to well rou	gravelly slightly nded of various		GDU	
1.50	ES		0				88.95	- - - 1.75									
							88.70		DEF	dish brown mo POSITS)			ey silty SAND.	(GLACIAL		GDU	
2.00	D (S)	2,2,2 3,4,3 N=12.	0					-	2.0n	n bgl; windowle	ess sample h	ole complete					
								-									
								-									
								-									
								-									
								-									
								-									
								-									
								- -									
								-									
								- - -									
								- -									
								-									
								-									
		Diameter					1	Recov	_					Strikes			
Depth	Dian	neter (mm)	R	emark	s (	Core 1	Гор (m) (	Jore Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
											No visual or on No radiologic Groundwater	sample hole con olfactory evidend		tion observed.			
Scale	e 1:37	.5				ensio icatio		etres. Lo	ogs sh	nould be read i	n accordance	with the prov	ded Key. Des	criptions are base	d on visu	ual and	

### Hole No. **WINDOW SAMPLE LOG WS108** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 24-06-14 70004430 Harrow Estates Plc 24-06-14 Contractor / Driller Method/Plant Used Logged By Co-Ordinates (NGR) Ground Level (m AOD) E 389515.320 Premier Tracker Compact Dynamic Sampling Ltd S McGeever 90.700 N 382664.640 Install / **SAMPLES & TESTS STRATA** Depth HSV (kN/m2) P.Pen (kN/m2) PID (ppmV) Dia. Elev. Test Description Depth Туре Legend Geology 50 (mAOD) (Thick Result mm MADE GROUND: CONCRETE. CONC 0.15 MADE GROUND: Black slightly gravelly SAND with abundant ash. Gravel vis fine and medium very angular to rounded of various lithologies. GMG GMG 0.20 90.40 0.30 MADE GROUND: Light grey mottled brown sandy coarse GRAVEL of predominantly sandstone and brick. 0.40 ES GMG 90.10 0.60 MADE GROUND: Light reddish brown mottled grey sandy GRAVEL. Gravel 0.70 is fine and medium very angular to subangular of predominantly burnt 50 Firm becoming stiff reddish brown mottled light grey slightly gravelly sandy 2,2,3 3,3,4 N=13. 1.00 CLAY. Gravel is fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS) (S) ō (1.40) GDU 1.20 ES 76 \_\_\_\_\_\_ 1.50 - 1.60 m bgl; band of light grey fine to coarse sand 100 88.70 2.00 D (S) 2,3,3 4,4,5 N=16. 2.00 2.0m bgl; windowless sample hole complete

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/1/2/14	-																	
990		Hole D	iameter						Reco	Verv				Water	Strikes			
RD L	Depth	_	ter (mm)	Re	emarks	s (	Core T	op (m)	Core Bas		% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
LE LOG WOODFO								-1- (***)										- <del>'0</del>
P WINDOW SAMPI												Groundwater Hole installed	sample hole con ted PID reading: al readings abov not encountered upon completion	d. n. Response zo	gl. or below 1ppm. ecorded. ne 1.0 to 2.0m b	gl.	•	
ISW 80	Scale	e 1:37.5	5	Note man	es: All ual id	dime lentif	ensio icatio	ns in m n.	etres. Lo	ogs sh	ould be read	in accordance	with the provi	ded Key. Desc	criptions are ba	ased on visua	al and	

### Hole No. **WINDOW SAMPLE LOG WS109** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 24-06-14 70004430 Harrow Estates Plc 24-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389423.950 **Premier Tracker Compact** 90.690 Dynamic Sampling Ltd S McGeever N 382625.980

ES ES D (S)	Test Result 	GIA (Nudd)	HSV (KN/m2)	P.Pen (KN/m2)	Water	90.52 90.29 90.19 89.49	-ness) - 0.17 - 0.40 - 0.50 - (0.70)	MAE abur brick MAE MAE and	ndant ash. Gra k, clinker and v DE GROUND:	CONCRETE Black mottle avel is fine to various litholo Red fine and Firm brownis	d dark brown s coarse angula gies. medium SAN th grey sandy c	to rounded o	f predominantly	Legend	Geology CONC GMG GMG	Dia 50 mm
ES D (S)	1,1,2 N=5.					90.29 90.19 89.49	0.40 0.50 - - - - - - - - - - - - - - - - - - -	MAE abur brick MAE MAE and	DE GROUND: ndant ash. Gra k, clinker and v DE GROUND: DE GROUND: medium angu	Black mottle avel is fine to various litholo Red fine and Firm brownis	d dark brown s coarse angula gies. medium SAN th grey sandy c	to rounded o	f predominantly		GMG	
ES D (S)	1,1,2 N=5.					90.29 90.19 89.49	0.40	abur brick MAD MAD and	ndant ash. Gra k, clinker and v DE GROUND: DE GROUND: medium angu	avel is fine to various litholo Red fine and Firm brownis	coarse angula gies. medium SAN h grey sandy c	to rounded o	f predominantly			\$25.50 \$25.50 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1
D (S)	1,1,2 N=5.					89.49	(0.70)	MAE MAE and	DE GROUND: DE GROUND: medium angu	Red fine and	medium SAN		Cravel in fine		GIVIO	
(S)	1,1,2 N=5.						1.20				nded of coal, sa	andstone and	various		CMG	
						89.24	- 1				P. 1.0		OLAN/			
	1,2,2						- 1.45	(SUF	PEŘFICIAL D	EPOSITS)	slightly gravelly				SUPD	
	1,2,1 N=6.		100				- - - - - - - - - - - - - - - - - - -	is fin (GLA	ne and mediun ACIAL DEPOS	n angular to r SITS)	ounded of coal	and various I	CLAY. Gravel thologies.		GDU	
						97.60	- 200	2.70	m bgl; band o	of grey fine ar	nd medium san	d.		-		
	2,3,4					67.09	- 3.00	3.0m	n bgl; windowl	ess sample h	ole complete					
	Dispersion											Western	Okriloo			
				_	0	()			0/ Date: 11	D-1-	т:			Otan il		
Diam	eter (mm)	Re	emark	s	Core 1	op (m)	Core Bas	se (m)	% Recovery	General Rer Windowless No visual or No radiologic Groundwater	marks sample hole con olfactory evidenc al readings abov not encountered	nplete at 3.0m b e of contaminat e background n i.	gl. on observed.	Standing	Ca	sing
	Diam	S) 4,4,4 N=16.	dole Diameter  Diameter (mm) Ro	dole Diameter  Diameter (mm) Remark	dole Diameter  Diameter (mm) Remarks  1:37 5 Notes: All dim	dole Diameter  Diameter (mm) Remarks Core 1	S) 2,3,4 4,4,4 N=16.  Hole Diameter  Diameter (mm) Remarks Core Top (m)	At 1:37.5 Notes: All dimensions in metres. Lo	S) 2.3.4 4.4.4 N=16.	S) 2.3.4 4.4.4 N=16.    Recovery  Diameter (mm) Remarks Core Top (m) Core Base (m) Recovery  Notes: All dimensions in metres. Logs should be read	S) 2,3,4 4,4,4 N=16.    87,69    3.00      3.0m bgl; windowless sample h	87.69 3.00  2.3.4 4.4.4 N=16.    Annual Content of the Content of	2.3.4 A.4.4 N=16.  S) 4.4.4 N=16.  Tole Diameter Recovery Water  Diameter (mm) Remarks Core Top (m) Core Base (m) Recovery Date Time Strike  General Remarks Windowless sample hole complete at 3.0m by No visual or olfactory evidence of contaminating No radiological readings above background regroundwater not encountered. Hole backfilled upon completion.	S) 2.3.4   4.4.4   N=16.      Solid blameter	All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visu	S) 2,3,4 4,4,4 N=16. Since the complete representation of the

### Hole No. **WS110 WINDOW SAMPLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 24-06-14 70004430 Harrow Estates Plc 24-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389418.370 **Premier Tracker Compact** 90.600 Dynamic Sampling Ltd S McGeever N 382579.030 110

	WADI F	-C 0 TE	CTC						CTDATA			Install /
SA	AMPLE	ES & TE	T			-		Depth	STRATA			Backfill
Depth	Туре	Test Result	(DID)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	(Thick -ness)	Description	Legend	Geology	Dia. 50 mm
0.10			0				90.45	- 0.15	MADE GROUND: CONCRETE.	440	CONC	
-		•					90.05	(0.40) - 0.55	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				89.90	0.70	MADE GROUND: Medium dense brownish reddish grey sandy fine to coarse very angular to subrounded GRAVEL of various lithologies.	$\Rightarrow$	GMG	
1.00	D	3,4,4						(0.50)	MADE GROUND: Medium dense red coarse slightly gravelly SAND. Gravel is fine subangular to well rounded of various lithologies.		GMG	
1.00	(S) ES	3,3,4 N=14. 3,4,4					89.40	-	MADE GROUND: Medium dense yellowish brown slightly gravelly SAND. Gravel is fine subrounded to well rounded of various lithologies.		GMG	
-1.50 -	(S)	3,3,4 N=14.	9.6				89.15	- 1.45 - - -(0.45)	MADE GROUND: Reddish brown fine sandy GRAVEL. Gravel is fine and medium very angular to subrounded of predominantly burnt shale.		GMG	
						1	88.70	1.90	MADE GROUND: Cobbles of red brick.			
2.00	D (S)	1,3,1 1,3,1 N=6.				¥ 1	88.30	-(0.40) - 2.30			GMG	
-						_	87.90	- -(0.40)	MADE GROUND: Dark reddish brown SAND.		GMG	
2.70	ES		1.3				87.60	(0.30)	Firm dark brownish grey slightly sandy organic CLAY (POSSIBLE RELICT TOPSOIL).		SUPD	
3.00	D (S)	1,0,1 1,1,2 N=5.		32				-	Firm grey sandy CLAY. (GLACIAL DEPOSITS)			
-				70				- -(1.00)			GDU	
<u> </u>							86.60	4.00				
4.00	(S)	1,1,1 2,1,2						-	4.0m bgl; windowless sample hole complete			
-		N=6.						-				
-								-				
								-				
<u> </u>								-				
								-				
	Hole	Diameter	r	•		•		Recov	very Water Strikes	•		•

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1.03.GDT 11/12/14 Hole Diameter Recovery Water Strikes Diameter (mm) % Recovery Depth Remarks Core Top (m) Core Base (m) 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.

		<b>VSP</b> SP					1	WIN	D	OW SA	AMPLE	E LOG		Hole No.	WS1	11	
	50-182 <sup>-</sup> M50 hone: 0	SP The Quays ) 3SP ) 161 886 2 ax:			Proje	ect			٧	Voodford /	Aerodrom	е		Sheet	1 of	1	
Job No	7000	)4430			Clie	nt				Harrow Es	states Plc			Date	25-06- 25-06-		
Contracto	r / Dri	ller		Met	:hod/	Plan	t Used		L	ogged By		Co-Ordina	ates (NGR)	Grou	ınd Leve	(m AC	D)
Dynami	ic Sar	npling L	td	Pr	emie		icker Co 110	ompact		S McG	eever		389602.110 382868.400		90.6	690	
SA	MPLE	S & TE	STS									STRAT	4				Instal Backf
Depth	Туре	Test Result	PID (bpmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Dia. 50 mm
0.20	ES		165.4				90.49 90.44 90.24	-ness) 0.20 0.25 - 0.45	0.19 MAI fine Med	to coarse sub- lium dense bro n to stiff brown	g hydrocarbon Brown clayey angular and so ownish red me slightly grave	gravelly SANI ubrounded of pedium SAND. ( Ily slightly sand	D with an oily shoredominantly ling GLACIAL DEPO	nestone. OSITS) I is fine very		TARMAC GMG GDU	
1.00	D (S)	1,1,2 2,2,2 N=8.		60				- - - - - - -	ang	ular to subrour	nded of variou	s lithologies. (	ĞLACIAL DEPC	OSITS)	0		
- 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.				4		- - - - -									
3.70	ES					₹	86.99 86.79	3.70	Med	lium dense ligl	nt brown fine a	and medium S	AND. (GLACIAL	DEPOSITS)		GDU	
4.00	D (S)	2,3,3 4,5,9 N=21.		110			00.73	(1.10)		brown slightly POSITS)	sandy CLAY	with occasiona	al sand bands. (	GLACIAL		GDU	
- 5.00	(S)	4,5,4 6,9,10 N=29.					85.69	5.00	5.0n	n bgl; windowl	ess sample ho	ole complete					
	Hole	Diamete	r					Recov	/erv				Water St	rikes			
Depth	$\neg$	neter (mm	_	emarl	ks	Core <sup>-</sup>	Top (m)			% Recovery	Date	Time	Strike 3.70	Minutes	Standing	Ca	asing
3.70 -4.00 -5.00 Depth							ons in me				Strong hydrod No radiologica Groundwater	sample hole com carbon odour and al readings abov not encountered	plete at 5.00m bg d sheen noted bel e background reco n. Response zone	ow asphalt at 0. orded.			

### Hole No. **WINDOW SAMPLE LOG WS112** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project 1 of 1 Woodford Aerodrome Fax: Job No Client Date 24-06-14 70004430 Harrow Estates Plc 24-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389688.270 **Premier Tracker Compact** Dynamic Sampling Ltd 91.200 J Watson N 382916.370

SA	MPLE	S & TE	STS									STRAT	Ā				Inst
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				С	escription			Legend	Geology	Di 50 mi
0.30.0.50	F6		0				91.00	-ness) - 0.20	MAE	le ground: Re	Light brown :	sandy clayey f	ine to coarse a	angular to		CONC	
0.30-0.50	ES	•	0				90.50	0.50)	Suba	angular GRAV	EL of limesto	ine.				MG	
0.70-1.00	ES		0				90.20	(0.30)	Firm	n dark brown s nded of various	andy slightly s lithologies. (	gravelly CLAY POSSIBLE R	. Gravel is fine ELICT TOPSO	e and coarse DIL)	1/ 2/1/2 1/1/2	SUPD	
1.00-1.20	ES (S)	1,1,2 2,1,2 N=7.	0	50 58				-	pred	n medium strei dominantly fine logies. (GLAC	and medium	subangular to	ravelly CLAY. o rounded of v	Gravel is arious		CDII	
				64 50			89.30	_(0.90) - - - 1.90								GDU	
2.00	(S)	1,1,1 1,2,2 N=6.		46			89.20	2.00	Soft	ngish brown fin brown very sa medium suba POSITS)	andv sliahtly o	ravelly CLAY.	Gravel is pre	dominantly fine		GDU	
							88.55			brown slightly	sandy slight	v gravelly CL	AY Gravel is r	redominantly		GDU	
3.00	(S)	2,2,2 3,4,4					88.40	(0.30)	fine DEF Med	and medium s POSITS) lium dense ora	subangular to ange brown c	rounded of values	rious lithologi	es. (GLACIAL 	-0	GDU	
	(0)	N=13.		46			predominantly fine and medium subangular to rounded of various (ithologies. (GLACIAL DEPOSITS)  Firm medium strength brown slightly sandy slightly gravelly CLAY. Gravel is predominantly fine and medium subangular to rounded of various lithologies. (GLACIAL DEPOSITS)							CLAY. Gravel is			
4.00		222		46 58				- - -				-,					
4.00	(S)	2,3,3 4,4,4 N=15.		46 48				- - -(2.35) -								GDU	
				60 50				- - -									
5.00	(S)	3,3,4 4,6,9 N=23.		70				- - -									
							85.75	- 5.45 - - -	5.45	im bgl; windov	vless sample	complete					· E
	Hole	Diamete	<u></u>					Recov	verv				Water	Strikes			
Depth	Dian	neter (mm)	R	emark	s	Core 7	Гор (m) (			% Recovery	Date	Time	Strike		Standing	Ca	sing
											contaminatio Groundwater	sample hole cor n observed. No	radiological read damp soil at 1.	bgl. No visual or olfa dings above backgro 9m bgl. Hole installe	ound recon	ded.	
Scal	e 1:37	.5		es: Al				etres. Lo	gs sh	ould be read i	n accordance	with the prov	ided Key. Des	criptions are base	ed on visu	ual and	

## Hole No. **WINDOW SAMPLE LOG WS113** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 24-06-14 70004430 Harrow Estates Plc 24-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389727.930 N 382897.130 **Premier Tracker Compact** 91.580 Dynamic Sampling Ltd J Watson

SA	MPLE	S & TE	STS					Donth				STRAT	A				Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Di 50 mi
							91.53 91.18	0.05/ (0.35)		DE GROUND: DE GROUND:		fine to coarse	e angular GRA	VEL.		TARMAC GMG	
0.50-0.60	ES	÷	0				90.88	(0.30)	GR/	DE GOUND: DE GOUND: DE AVEL with ash coal.	Park grey and and cobbles	black very sar of brick and s	ndy fine and m andstone. Gra	edium angular vel of clinker		GMG	
							90.58	_ (0.30) 1.00		DE GROUND: vel is fine and			nd coarse grav	velly SAND.		GMG	
2.00-2.20	ES (S)	0,1,1 1,1,2 N=5.	0	50 48 40 52			89.38	- - - -(1.20) - -	grey	DE GROUND: rish brown san medium suba	dy slightly gra	velly CLAY. C	ngth reddish br Gravel is predo s lithologies.	rown mottled minantly fine		CMG	
	,	N=8.		16			89.08	_ _(0.30) 		dark brown ve SSIBLE RELI			h frequent roo	tlets.	<u> </u>	SUPD	
				30 30				(0.50)	Grav		nantly fine and	d medium sub		gravelly CLAY. nded of various		GDU	
3.00	(S)	2,3,2 3,3,2 N=10.		56			88.58	3.00	No r	recovery							
								_(0.90) _								NR	
4.00	(S)	2,3,3 4,4,3 N=14.					87.68	3.90	Soft	greenish grey	sandy CLAY	. (GLACIAL D	EPOSITS)			GDU	
							87.08 86.98		$\overline{}$	ngish brown fil						GDU	
5.00	(S)	2,3,4 4,4,5						- - - (0.85)		greenish grey ) m bgl; firm m	•	•	EPOSITS)			GDU	
		N=17.					86.13	- - 5.45 - -	5.45	im bgl; windov	vless sample	complete					
	Hole	Diamete						Recov	/erv				Water	Strikes			
Depth	Dian	neter (mm	R	emark	s (	Core 7	Top (m)	Core Bas		% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sin
Depth				emark	s	Core 1	Top (m)	Recov Core Bas		% Recovery	General Ren Windowless contamination	narks sample hole cor	Strike  Strike		facto	ry evid	ry evidence of
											5.0m bgl.				· 		
Scal	le 1:37	.5		es: Al nual id				etres. Lo	gs sh	nould be read i	n accordance	with the prov	iaea Key. Des	criptions are bas	sed on visu	ial and	

ဂ္ကါ													
إق		Hole Diameter			Recovery				Water	Strikes			
SK	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Cas	sing
LE LOG WOODF													
VINDOW SAMPL							contamination	sample hole con n observed. No i	nplete at 5.45m l radiological read d . Hole installed	ings above back	kground record	ed.	0

#### Hole No. **WINDOW SAMPLE LOG WS114** Sheet Project M50 3SP Telephone: 0161 886 2400 Woodford Aerodrome 1 of 1 Fax: Job No Client Date 24-06-14 70004430 Harrow Estates Plc 24-06-14 Contractor / Driller Method/Plant Used Logged By Co-Ordinates (NGR) Ground Level (m AOD) F 389750 020 Premier Tracker Compact Dynamic Sampling Ltd J Watson 91.540 N 382857.500 Install **SAMPLES & TESTS STRATA** Depth PID (ppmV) Dia. Elev. Test HSV Depth Description Legend Geology 50 (mAOD) (Thick Result mm MADE GROUND: ASPHALT 91.49 0.05 GMG 91.29 MADE GROUND: Orange brown sandy clayey fine to coarse angular 0.25 GMG 0.30-0.40 ES 0 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 90 0.50-0.60 ES 0 -(0.33)CMG sandstone 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 60 0.80-1.00 ES 52 brick and various lithologies 1.00 2,3,2 3,3,3 N=11. ASSUMED MADE GROUND: Firm locally soft moderate strength reddish (S) brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine and medium rounded of various lithologies. 34 58 42 (1.85) CMG 1.70 - 1.90 m bgl; becoming stiff high strength 90 1.90 - 2.60 m bgl; becoming firm medium strength 2.00 (S) 46 46 Firm reddish brown clayey amorphous PEAT. (POSSIBLE RELICT SUPD (TOPSOIL) Medium dense yellowish brown medium SAND. (GLACIAL DEPOSITS)

3.00 3.00

WSPETEMPLATE1

TO DATE VERSION.GPJ

WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED -100914 - UP

08 WSP

4.00

5.00

(C)

(C)

(C)

2,3,4 6.7.6

ביייטט - טניי	- - -								-									
2		Hole	Diameter						Reco	very				Water	Strikes			
ל	Depth	Dian	neter (mm)	R	Remark	s	Core 7	Гор (т)	Core Ba	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
LE LOG WOOD!														3.40				
יייבט יייטטעוווע												contamination	ample hole com observed. No r	adiological read	bgl. No visual or ings above back 3.4m bgl. Hole b	kground record	ded.	ion.

5.45m bgl; windowless sample complete

3.50 - 4.40 m bgl; becoming greenish grey3.70 - 4.00 m bgl; becoming clayey

DEPOSITS)

(1.05)

Soft becoming firm low strength reddish brown sandy CLAY. (GLACIAL

GDU

GDU

# Hole No. **WINDOW SAMPLE LOG WS115** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 24-06-14 70004430 Harrow Estates Plc 24-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389801.090 **Premier Tracker Compact** 91.180 Dynamic Sampling Ltd J Watson N 382754.460

SA	MPLE	S & TE	STS									STRAT	A				Insta Back
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Dia 50 mn
							90.98	-ness) - 0.20 0.30		DE GROUND:			atly clayey fine	to coarse	P 6 4 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	CONC	8
0.30-0.50	ES		0				90.68	0.50	grav	vel sandstone. DE GOUND: D	Dark grey and	black very sar	ndy fine and m	edium angular		MG	1
				70			90.48	0.70	GRA	AVEL with fred sandstone.	quent ash. Gra	ivel of clinker	and coal with	some slag, brick		MG	
0.80-1.00 _ 1.00	ES	2,3,2	0	78				_	MAI	DE GROUND: DE GROUND: wn sandy grav	Firm locally s	tiff medium str	rength locally l				
	(S)	3,3,3 N=11.		60				(1.05)	clink	ker slag, coal a	and brick.					MG	
								- -	1.40	) - 1.50 m bgl;	sandstone co	bble					
1.80-1.90	ES		0				89.43 89.28	1.75		wn slightly clay		edium and coa	arse SAND (P	OSSIBLE		SUPD	
2.00	(C)	1,1,2 1,2,3 N=8.		54				_ - -	grav	n medium stre velly CLAY. Gr ogies. (GLACI	avel is fine an	d medium rou	grey slightly sanded to subar	andy slightly ngular of various			
		IN-O.		50				- - -	IIIIIIC	ogies. (GLACI	AL DEPOSIT	>)					
				50				- - -									
3.00		1,2,3		60				(2.05)								GDU	
	(S)	2,3,4 N=12.		60				- -									
				76				-									
				68 50			87.23	- - 3.95	_	l: da			CAND (CLA	CIAL			
4.00	(S)	1,1,2 3,5,6 N=16.				<u>_</u>		- -(0.65)		dium dense ora POSITS)	angish red line	e and medium	SAND. (GLA	JIAL		GDU	
							86.58	4.60		Local d'ala la com		d P . b.0		V Ossalia fina			
							86.28	(0.30) 4.90	and	medium roun POSITS)	ded to subang	ular of various	s lithlogies. (G	Y. Gravel is fine LACIAL		GDU	
5.00	(C)	8,8,9 10,10,10 N=39.						_ _(0.55)	Den	ise orange red	I fine and med	ium SAND. (G	BLACIAL DEP	OSITS)		GDU	
							85.73	- - 5.45 -	5.45	5m bgl; windov	vless sample	complete					
								-									
	Hole	Diameter						Reco	very				Water	Strikes			
Depth	Dian	neter (mm)	R	emark	s	Core 7	Top (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike 4.20	Minutes	Standing	Ca	asing
											contamination	sample hole con n observed. No i encountered at	radiological read	bgl. No visual or olfa lings above backgro installed upon comp	und recor	ded.	one
Scal	e 1:37	.5				ensio		etres. Lo	ogs sh	nould be read	in accordance	with the provi	ded Key. Des	criptions are base	ed on visu	ual and	

က္ကါ																		
ğ[		Hole	Diameter						Recov	very				Water	Strikes			
ORD	Depth	Dian	neter (mm)	Re	marks	(	Core T	op (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Cas	sing
LOG WOODF														4.20				
WINDOW SAMPLE												contamination	ample hole com observed. No rencountered at	adiological read	ings above back	ground record	ed.	one

<b>WSP</b>	WINI	DOW SAMPLE		Hole	e No. <b>WS116</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430	Client	Harrow Estates Plc		Dat	te 24-06-14 24-06-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Premier Tracker Compact 110	J Watson	E 389853.900 N 382704.600		89.250

Depth	VII LL	S & TE						Death				STRAT	A				Ins Bad
.	Туре	Test Result	PID (Madd)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Di 5 m
).20-0.40	ES		0				89.10	1 1	MAI	DE GROUND: DE GROUND: rse angular Gl	Orangish bro	own slightly sai estone.	ndy slightly cla	ayey fine to		TARMAC	
1.00	(C)	1,2,1 2,2,2 N=7.						- - - - -									
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			1											
3.00	(C)	6,6,4 4,3,3 N=14.				<u></u>	86.25	3.00		DE GROUND: estone.	Orangeish bi	rown fine to co	arse angular (	GRAVEL of		MG	
3.50-3.80	ES		0				85.75	3.50	MAI	DE GROUND: rse of limestor	: Very soft ver ne.	y gravelly sand	dy CLAY. Grav	vel is fine to		MG	
1.00	(C)	1,1,1 1,1,1 N=4.					85.25	4.00		se orangish bi POSITS)	rown slightly c	layey fine and	medium SAN	D. (GLACIAL			
1.50-4.70	ES		0					(1.45)								GDU	
5.00	(C)	2,3,3 3,3,3 N=12.						- - - -	5.00	) m bgl; becon	ning medium	dense					
							83.80	- 5.45 - - -	5.45	5m bgl; windov	wless sample	complete					
	Holo	Diamete	<u></u>					Recov	(OD.)		I		Water	Strikes			
	_	neter (mm)		emark	s	Core -	Гор (m)	Core Bas		% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing

	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 Rem				<u> </u>	
						contamination	n observed. No r encountered at	adiological read	bgl. No visual or lings above bacl nstalled upon co	karound recorde	d.

### Hole No. **WS117 WINDOW SAMPLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project 1 of 1 Woodford Aerodrome Fax: Job No Client Date 25-06-14 70004430 Harrow Estates Plc 25-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389726.310 **Premier Tracker Compact** 90.380 Dynamic Sampling Ltd S McGeever N 382750.000

SA	MPLE	S & TE	STS									STRAT	-A				Inst
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)		1		Г	Description			Legend	Geology	D 5 m
							90.30	(0.57)	MAE of pr	DE GROUND: DE GROUND: redominantly b	Reddish bro	wn sandy GRA	VEL and occa	asional cobbles		TARMAC GMG	
1.00	D (S)	1,1,2 1,2,1 N=6.					89.73 88.98	- - - (0.75)	MAE	oles. Gravel is	predominant					GMG	
2.00	D (S)	1,2,2 3,3,4 N=12.						- - - - - - - - - - - - - - - - - - -				Firm to stiff red ce of underlyin		.AY. Assumed		CMG	
2.90 3.00	ES D (S)	1,1,1 2,1,2 N=6.					87.53 87.38 87.03	3.00 - -(0.35) - 3.35	Soft angu	ular of predom	rey slightly sa inantly muds	ndy slightly gra	(SUPERFICIA	AL DEPOSITS)		SUPD SUPD SUPD	
.30	D (S) ES	1,1,1 2,1,2 N=6.				1	86.58	-(0.45) - 3.80 		t brownish gre	ey very sandy	organic CLAY	'. (SUPERFICI	IAL DEPOSIT)	- <u>-</u> - <u>-</u>	SUPD	
5.00	(S)	2,3,3 3,3,4 N=13.					85.38	5.00		dowless samp	ole hole comp	olete at 5m bgl			- <u>+</u>		
	Hole	Diamete	r					Reco	very				Water	Strikes			
Depth	Diam	neter (mm	) R	emark	s	Core 7	Гор (т)	Core Ba	se (m)	% Recovery	Date	Time	Strike 4.30	Minutes	Standing	Ca	sing
											No visual or No radiologio Groundwate	sample hole con olfactory evidence cal readings above rencountered at	ce of contaminative background r	tion observed.			
Scal	e 1:37	.5				ensio		etres. Lo	ogs sh	nould be read i	n accordance	e with the prov	ided Key. Des	criptions are base	ed on visu	ual and	

### Hole No. **WINDOW SAMPLE LOG WS118** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 25-06-14 70004430 Harrow Estates Plc 25-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389714.300 **Premier Tracker Compact** Dynamic Sampling Ltd S McGeever N 382718.970 91.140 110

SAN	/PLE	S & TE	STS									STRAT	Α				Insta Back
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)	Depth (Thick			D	escription			Legend	Geology	Dia
0.15 0.20	ES	:	0	108	)		91.04 91.02 90.89 90.79	0.25	MAD Suba MAD Firm CLA	DE GROUND: angular GRAV DE GROUND: locally soft br Y. Gravel is fil	Light grey su Black slightly EL with frequ Reddish brov rown mottled ne and mediu	sandy fine and ent ash. Grave vn sandy GRA grey and light to m angular to s	d medium ver el is coal. VEL of predo prown slightly	minantly brick.		TARMAC GMG GMG GMG	ļ.,
1.00	D (S)	1,1,2 3,4,5 N=14.	0	45				-	lithol	logies. (GLAC	IAL DEPOSI	(8)				CDII	
				32				_(2.20) - -								GDU	
2.00	D (S)	2,3,3 4,5,5 N=17.		55				- - - - -									
2.60	ES						88.59 88.44	- - 2.55 - 2.70	Light	t grey medium	n SAND. (GLA	CIAL DEPOS	ITS)		-0	GDU	
2.00	ES	•					00.44	-	Soft pred	and firm grey omiantly coal.	slightly sandy (GLACIAL D	gravelly CLA` EPOSITS)	Y. Gravel is fir	ne angular of			
3.00	D (C)	2,3,2 3,3,4 N=12.	0	38												GDU	E E E E E E E E E
				50			87.14	4.00							-0_		\$250 \$250 \$250 \$250 \$250 \$250 \$250 \$250
4.00	D (C)	2,3,3 4,3,5 N=15.					86.94	4.20	Stiff	reddish browr	n gravelly CLA	AND. (GLACIA	ne and mediu			GDU	
				76				- -(0.80) -	Subr	ounded or var	ious lithologie	s. (GLACIAL [	DEPOSITS)			GDU	KESTER STEET
5.00	(C)	6,9,9 9,11,10 N=39.					86.14	5.00	5.0m	n bgl; windowl	ess sample h	ole complete					
								- - - -									
	Hole	Diamete	r					Recov	very				Water	Strikes			
Depth	Diam	neter (mm)	R	emark	s (	Core 1	Top (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
											No visual or on No radiologic Groundwater	narks sample hole com olfactory evidence al readings abov not encountered d upon completi	e of contaminate background r	tion observed.			
Scale	1:37	.5		es: All				etres. Lo	gs sh	ould be read i	n accordance	with the provi	ded Key. Des	criptions are base	d on visu	ual and	

### Hole No. **WINDOW SAMPLE LOG WS119** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 25-06-14 70004430 Harrow Estates Plc 25-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389798.900 **Premier Tracker Compact** 90.480 Dynamic Sampling Ltd S McGeever

N 382640.950

Гуре	Test Result	PID (ppmV)	2° E	en n2)	듄		Depth									
		별	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Di 50 mi
ES						90.30	<u>-ness)</u> - 0.18	MAE	DE GROUND:	Brown clayey	/ SAND with ro	ootlets. (TOPS	OIL)	XX	MG	
		0				89.93	(0.37)					vel is fine and e and various I			GMG	
						69.93	- (0.55)								GMG	
D	1,2,3					89.38	1.10									
(5)	3,4,7 N=17.		55				- - (0.65)	is fir	ne and mediun	rangish grey s n subangular	slightly gravelly to rounded of	y slightly sand various litholo	y CLAY. Gravel gies. (GLACIAL		GDU	
			60		<b>⊉</b>	88.73	- 1.75	1	!:=!st ====	a dissa CAND	(CLACIAL D	EDOCITE)				
D (C)	1,1,1 2 1 2					88 28	_ _(0.45) - 2.20	LOOS	se light grey m	iedium SAND	. (GLACIAL D	EP05(15)			GDU	
(0)	N=6.		30			00.20	-	Soft	low strength I	ight brown sli	ghtly sandy Cl	AY. (GLACIA	L DEPOSITS)			
						97.69	- -(0.60) -								GDU	
													ubangular to	0	GDU	
D (C)	1,1,2 3,5,7 N=17.						- _(0.35)	Grev	yish brown slig	htly gravelly	sandy CLAY. (	Gravel is fine a	and medium		GDU	
							-	Med	lium dense ligl	ht orangish re	ddish brown S	SAND. (GLACI	AL DEPOSITS)			
D	222						- - - (1.15)								GDU	
(C)	4,3,4 N=14.					9E 09	- - - - 4.50									
ES						00.90	(0.50)					GLACIAL DEF	POSITS)		GDU	
D	123					85.48	5.00	5 On	n hal: windowl	ess samnle h	ole complete					
(C)	1,1,1 N=6.						-	<b>0.0</b>		ooc oampio	50 cop.60					
Hole	Diameter	<u> </u>					Recov	very				Water	Strikes			
		_	emark	s	Core 7	op (m)			% Recovery	Date	Time	Strike		Standing	Ca	sing
										Windowless: Strong hydro No radiologic Groundwater	sample hole con carbon odour er al readings abov encountered at	countered at 4.5 ve background r 1.7m bgl.	50m bgl. ecorded.			
· · · · ·	ES DCC)  DCC)  For Diam	S) 3,4,7 N=17. ES . D 1,1,1 C) 2,1,2 N=6. D 1,1,2 C) 3,5,7 N=17. D 2,3,3 4,3,4 N=14. ES . D 1,2,3 C) 1,2,3 C) 1,1,1 N=6.	S) 3,4,7 N=17.  ES	S) 3,4,7 N=17. 55  60  ES	S) 3,4,7 N=17. 55  60  ES	S) 3,4,7 N=17. 55  60  1,1,1 2,1,2 N=6. 30  D 1,1,2 N=6. 30  D 2,3,3 4,3,4 N=17.  D 1,2,3 C) 1,1,1 N=6.  Hole Diameter  Diameter (mm) Remarks Core 1	SS 3,4,7 N=17.	D 1,2,3	D 1.2.3	1.2.3   S   3.4.7   S   S   S   S   S   S   S   S   S	D 1.2.3 3.4.7 N=17. 55	MADE GROUND: Dark brown slightly gravelly medium very angular to subrounded of predoi medium very angular to subrounded of predoi significance is firm to stiff light orangish grey slightly gravelly is firm and medium subangular to rounded of DEPOSITS)  88.73	MADE GROUND: Dark brown slightly gravelly SAND. Grave medium very angular to subrounded of predominantly coal a medium very angular to subrounded of predominantly coal a medium very angular to subrounded of predominantly coal a sign and medium very angular to subrounded of predominantly coal a sign and medium very angular to subrounded of various lithologies. (GLACIAL DEPOSITS)    Solid   Soli	MADE GROUND: Dark brown slightly gravelly SAND. Gravel is fine and medium very angular to subrounded of predominantly coal and brick.    Society	MADE CROUND: Dark brown slightly gravelly SAND. Gravel is fine and medium very angular to subrounded of predominantly coal and brick.  88.38   1.10   Firm to stiff light crangish grey slightly gravelly slightly sandy CLAY. Gravel is fine and medium subangular for rounded of various lithologies. (GLACIAL DEPOSITS)	MADE GROUND: Dark brown slightly gravelly SAND. Gravel is fine and medium very angular to subrounded of predominantly coal and brick.  See 1.10  10.55  1.17  10.55  1.17  10.55  1.17  10.55  10.650

		<b>NSP</b>						WIN	ID	OW SA	AMPLE	E LOG	i	Hole	e No.	<b>/</b> S12	20	
	150-182 M50 ephone:	The Quays 0 3SP 0161 886 2 ax:			Proj	ect			٧	Voodford A	Aerodrom	e		She		1 of	1	
Job No	7000	04430			Clie	nt				Harrow E	states Plc			Dat	2	5-06- 5-06-		
Contract	or / Dr	iller					t Used			ogged By			ates (NGR)		Ground	Level	(m AO	D)
Dynan	nic Saı	mpling L	td	Pre	emie		acker C 110	ompac	t	J Wa	tson		389450.570 382808.170			90.5	570	
S	AMPLI	ES & TE	STS									STRAT	'A					Install a
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)				escription			L	Legend	Geology	mm
0.20-0.40	ES		0				90.47 90.37 90.17	0.20	MAI MAI	DE GOUND: D	Reinforced Coark grey and I	black very sai	ndy fine and med	dium ang	-	, s 4 ,	TARMAC CONC MG	
0.60-0.80	ES		0			<b>⊉</b>	90.02	- 0.55 - -	Sand MAI GRA	dstone. DE GROUND: AVEL of sands	Orange brown	n clayey sand	y fine to coarse	subangu	ılar / -	X X	MG	
1.00-1.45	D (S)	2,3,3 3,1,1 N=8.				\ <del>\</del>		_	sligh	ntly gravelly C		s fine to coars	wn mottled grey e rounded to su			<u>-</u>		
1.40-1.60	ES		0					-							-			
	D (S)	1,2,1 2,2,2 N=7. 2,2,3 3,3,4 N=13.		52 52 64 52 62 56 46 50 50 54				-(4.90)	3.70	ı m bgl; becom	ning stiff clay						GDU	
4.00-4.45	D (S)	3,3,4 3,4,5 N=16. 3,4,4 4,5,6 N=19.		76 96 76				- - - - - - - - - - - - - - - - - - -										
-							85.12	- 5.45 -	5.45	m bgl; windov	vless sample o	complete				· ×.— . ·		
					<u> </u>													
Depth		Diamete meter (mm		emark	(S	Core	Top (m)	Recor Core Bas		% Recovery	Date	Time	Water S Strike	trikes Minutes	s Str	anding	Ca	asing
_ 5501					-		-12 (2.7)		- (***)			0	0.90			·3		
											contamination	ample hole cor observed. No encountered at	nplete at 5.45m bg radiological readin 0.9m bgl. Hole ins	gs above	backgroun	nd record	ded.	one
Sc	ale 1:37	7.5				nension fication		etres. Lo	ogs sh	nould be read i	n accordance	with the prov	ided Key. Descr	iptions a	re based	on visu	ial and	

### Hole No. **WINDOW SAMPLE LOG WS121** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project 1 of 1 Woodford Aerodrome Fax: Job No Client Date 25-06-14 70004430 Harrow Estates Plc 25-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389446.480 **Premier Tracker Compact** Dynamic Sampling Ltd 90.660 J Watson N 382776.710

SA	MPLE	S & TE	STS									STRA <sup>-</sup>	ΤΑ				Insta Back
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				[	Description			Legend	Geology	Dia.
			Ť				90.56	-ness) 0.10	MAI	DE GROUND:	ASPHALT.					TARMAC	
							90.36	L	$\sim$	DE GROUND:		CONCRETE.			P P P	CONC	
0.30-0.50	ES							-	MAI	DE GROUND:	Reddish bro	wn slightly cla	yey medium S	AND.		MG	
0.60-0.80	ES			60			90.11	- 0.55 -	Stiff	locally firm hi	gh strength re	eddish brown	slightly sandy s	slightly gravelly		1	
0.00-0.00	LO	•		100				-	CLA (GL	AY. Gravel is fi ACIAL DEPOS	ne to coarse	rounded to su	bangular of va	rious lithologies	S		器
				90					,		,						3
1.00-1.20	ES (S)	1,2,2 3,3,3															3
		N=11.		100				-							-0		
				106				-									
				110				-							-0		
				100												1	
_ 2.00		1,2,2						-									宏
	(S)	2,3,2 N=9.						(3.40)								GDU	Ä
				100				[									瓷
				100				-									
				102				-									祭
_				102				L									4
3.00	(S)	2,3,3 4,3,4		106				-									8
	, ,	N=14.						-									8
				80				-									
				78				-								1	知
				70			86.71	- 3.95									贷
_ 4.00		2,2,3				1	00	-			ddish brown t	fine and medic	ım SAND. (GL	ACIAL			
	(S)	2,2,3 N=10.				<u>1</u>			DEF	POSITS)							安
								(4.05)								CDII	2
								_(1.05) -								GDU	
_							85.66	5.00									祭
5.00	(S)	2,3,3 4,4,5						-					velly CLAY. Gr	avel is fine to SIAL DEPOSITS	3)		<b>X</b>
		N=16.						(0.45)							,	GDU	8
							85.21	- 5.45 -	5.45	5m bgl; windov	vless sample	complete					<b>5</b> Q
								-		<b>3</b> /	·	·					
								-									
	Hole	Diameter	r				<u> </u>	Recov	very				Water	Strikes		<u> </u>	<u> </u>
Depth	Dian	neter (mm)	R	emark	s	Core 7	Гор (т)	Core Bas		% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
													4.20				
											General Re						
											contamination	on observed. No	radiological rea	bgl. No visual or dings above back back filled upon o	ground recor	dence of ded.	
	- 4.07		Not	es: Al	l dim	ensio	ns in m	etres Lo	ngs sh	ould be read	in accordanc	e with the prov	vided Kev Des	criptions are ba	ased on visi	ual and	
Scal	e 1:37	.5		es: Ai nual id				eues. LO	ys si	iouiu be read	iii accordanc	e with the prov	viueu Ney. Des	onpuons are ba	aseu OII VISI	uai ai10	

### Hole No. **WINDOW SAMPLE LOG WS122** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 25-06-14 70004430 Harrow Estates Plc 25-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389388.410 **Premier Tracker Compact** Dynamic Sampling Ltd 90.710 J Watson N 382732.330

SAI	MPLE	S & TE	STS									STRAT	A				Ins Ba
Depth	Туре	Test Result	PID (bpmV)	HSV (kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				С	escription			Legend	Geology	/ 5 m
				_ =			90.63	-ness) 0.08	NAAF	DE GROUND:	ACDUALT					TARMAC	
							90.63	F I	_	DE GROUND:		CONCDETE			P 4 4 0	CONC	
							30.43	0.22	$\overline{}$						$\wedge$	MG	
0.30-0.50	ES		0				90.31	0.40				black sandy fin avel is clinker,			$\triangle$	IVIG	
								- I		dstone.	uent asn. Gr	avei is cilliker,	coai, siag, bri	ick and	$^{\prime}$		
								(0.50)			Doddieh brox	un eliabtly elay	rov sandy GP	AVEL of fine and		MG	
0.70-0.90	ES		0					[(0.50)				e, and occasion		AVEL OF THE AND	$\langle \times \rangle$	IVIG	
0 0.00		•	"			1	89.81	0.90		ilani banabion	o, barrit oriaic	, and occasion	iai ooai.		XX		
						▼			MAE	DE GROUND:	Loose reddis	h brown sandy	fine to coars	e GRAVEL of	$\times \times$		1.
.00-1.45	ES	1,2,3 1,2,2				_		-	crus	hed brick.					$\langle X \rangle$		
	(S)	1,2,2 N=8.						-(0.60)								MG	
								F							XX		
							89.21	1.50							$\sim$		1
								- 1				ish brown san	dy gravelly C	LAY.			Æ
								(0.50)	(SU	PERFICIAL D	EPOSITS)					SUPD	120
				24				(0.50)							F .—	SUFD	160
							88.71	2.00							0		Ŕ
.00	(0)	3,2,1						-						gravelly CLAY.			K
	(S)	2,2,2 N=7.						- I				d to subangula	r of various lit	hologies.			19
.30-2.50	ES							†	(GL/	ACIAL DEPOS	0110)				F		16
		•						[							-°		
				60				(1.20)								GDU	K
				50				F,	2 70	m hali haas	ing brown ==	d cand:					19
								-	2.70	m bgl; becom	iing brown ar	iu sariuy					16
				48				Ė l									
.00-3.45	ES	3,4,4						[ l							-0		X
	(S)	4,3,3 N=14.					87.51	3.20	Dani	vn fine SAND.	(OLACIAL D	EDOCITO)			<del> </del>		-100
							87.31	3.40			•					GDU	þ
				30			87.11	3.60		osoft low strer	igth dark grey	brown sandy	gravelly CLA	Y. (GLACIAL	-0	GDU	5
									$\overline{}$		wn fine SAN	D. (GLACIAL I	DEPOSITS)				16
								-	IVICU	idili delise bie	, , , , , , , , , , , , , , , , , , ,	B. (OL) TOIT L	DEI GOITO)				
								-									X
.00-4.45	ES	2,2,3						(0.85)								GDU	120
	(S)	3,3,4															16
		N=13.						-									
							86.26	- 4.45									50
								ĖΙ	Win	dowless samp	le complete a	at 4.45m bgl					
								-									
								-									
								-									
								- 1									
								-									
								-									
								- 1									
		Diameter				_		Recov			_	T		Strikes	_		
Depth	Dian	neter (mm)	R	emark	s (	Core 7	op (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asin
													1.00				
											General Rer	narks	1	1			
														bgl. Slight olfactory			
														to 1.2m bgl. No radio ered at 1.0m bgl. Ho			ove
										n l	- Juonground I	Journal Or Gull		orou at nonn byn 110	III ISTAIIC	. apon	
											completion. F	Response zone 0	0.5 to 1.5m bgl.	•			
														scriptions are base			

řń												
9	ŀ	Hole Diameter			Recovery				Water	Strikes		
SE SE	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
Ž									1.00			
Š												
9												
=												
Ŧ							General Ren	narke				
⋛												
Š							Windowless s	sample hole com	nplete at 4.45m l	bgl. Slight olfacto	ory evidence of	
>							hydrocarbon o	contamination of	bserved at 1.0 to	o 1.2m bgl. No ra	adiological read	ings above
⋛										red at 1.0m bgl.		
ັ										ica at i.uiii byi.	i ioic ii istalieu t	pori
Ź							completion. R	desponse zone 0	1.5 to 1.5m bgl.			
=												

### Hole No. WS123 **WINDOW SAMPLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 25-06-14 70004430 Harrow Estates Plc 25-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389259.750 **Premier Tracker Compact** Dynamic Sampling Ltd 89.590 J Watson N 382671.230

		$\square$			D				STRAT	A				Insta Back
Water	(KN/mz) P.Pen (KN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Dia.
				89.54	0.05	MAI	DE GROUND:	Concrete par	ving slab.				CONC	M
				89.47	0.12/ - - -(0.78) -	MAI	DE GROUND: DE GROUND: AVE. Gravel is	Brown clayey	ashy SAND a	ind fine to coa	rse angular nics.		MG MG	
				88.69	0.90									I ⊨
				00.00	-(0.60)	MAI odo	DE GROUND: ur. Gravel is fi	Black gravelly ne and mediu	y ashy SAND m of clinker.	with a faint hy	drocarbon		MG	
1			1	88.09 87.99	1.50 1.60	MAI	DE GROUND:	Sandy reddis	h brown fine to	o coarse angu	lar GRAVEL of	XX	MG	<u>%</u>
¥			<u></u>	86.79	- - -(1.20) - - - - - 2.80	Firm CLA DEF	ken brick.  n medium strei Y. Gravel is fi POSITS)  1 - 1.90 m bgl;				htly gravelly LACIAL		GDU	
				00.70		Gre	yish brown me	dium and coa	rse SAND. (G	LACIAL DEPO	OSITS)			
₹			<b>2</b>		(0.50)								GDU	
-			_	86.29	3.30									Z
					- - - - - - -(2.15)	) DEF	POSITS)						GDU	
				84.14	- - - - 5.45 -	5.45	ōm bgl; windov	vless sample o	complete					
					- -					Water	Ctrillog			
Co	ırks	(S (	Core	Top (m)	Recov Core Bas		% Recovery	Date	Time	Strike	Strikes Minutes	Standing	Ca	sing
501			5016	TOP (III)	OUT DAS	<del>∞ (III)</del>	, recovery	General Ren Windowless s	narks sample hole con	1.70 3.10	bgl. Olfactory evid	ence of hyd	rocarbon	ion ig
	A.II. ::					-		background re upon complet	ecorded. Ground ion. Response z	dwater encounter cone 0.5 to 1.5m	ered at 1.7 and 3.1 n bgl.	m bgl. Hole	installed	
	All dim identif				etres. Lo	ogs sh	nould be read i	Windowless s contamination background ru upon complet	sample hole con n observed be ecorded. Grou ion. Response	no e z	tween 0.9 to 1.5m indwater encounte e zone 0.5 to 1.5m	tween 0.9 to 1.5m bgl. No radiologic indwater encountered at 1.7 and 3.1 azone 0.5 to 1.5m bgl.	tween 0.9 to 1.5m bgl. No radiological readings indwater encountered at 1.7 and 3.1m bgl. Hole at 2.5m bgl. Hole at 2.5m bgl.	omplete at 5.45m bgl. Olfactory evidence of hydrocarbon tween 0.9 to 1.5m bgl. No radiological readings above indivater encountered at 1.7 and 3.1m bgl. Hole installed at 2 zone 0.5 to 1.5m bgl.  vided Key. Descriptions are based on visual and

### Hole No. **WINDOW SAMPLE LOG** WS124 Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 25-06-14 70004430 Harrow Estates Plc 25-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389321.850 **Premier Tracker Compact** Dynamic Sampling Ltd 90.480 J Watson N 382586.290

SAI	MPLE	S & TE	STS									STRAT	A				Insta
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Dia
							90.18	-ness) _(0.30) 0.30	MAE	DE GROUND:	Reinforced (	CONCRETE.				CONC	8
0.30-0.50	ES						89.88	(0.30)		DE GROUND: dstone and bri		fine and medi	ium angular G	RAVEL of		MG	
0.70-0.90	ES			46				-	MAE sligh	DE GROUND: ntly gravelly Cl	Firm locally s AY. Gravel is	oft low and me fine and coar	edium strengtl se angular of	h brown sandy brick.			
1.00-1.45	D (S)	1,0,1 0,1,0		30				(1.10)								MG	
		N=2.		30 30 42				-									
				"-			88.78 88.58			low strength o	dark brown sa	ndy organic C	LAY (POSSIE	BLE RELICT		SUPD	
_ 2.00-2.45	D (S)	1,2,1 1,2,2		70				-	Firm	medium stre	ne to coarse	ottled grey slig angular to rour	htly sandy slig nded of variou	ghtly gravelly s lithologies.			
		N=6.		74 74 90				-	(OL)	NOW LE DET O	5110)				0	OD!	
				102				(1.30)								GDU	2000
_ 3.00-3.45	D (S)	2,3,3 4,5,5		120 110		<u>‡</u>	87.28	3.20									
	, ,	N=17.					86.98	(0.30)	DEP	POSITS)		ne and mediun				GDU	223
				100				-	Gra\	n high strength vel is fine to co POSITS)	brown mottle parse angular	ed grey slightly to rounded of	sandy slightly various litholo	gravelly CLAY. ogies. (GLACIAL			
4.00-4.45	D (S)	3,4,4 5,5,6						(0.95)								GDU	
		N=20.					86.03	- 4.45	m hr	gl; windowless	sample com	nlete			-0		
								-	2	g.,aooo	, campio com	p.101.0					
-								-									
								-									
	Hole	Diameter						Reco	verv				Water	Strikes			
Depth		neter (mm)	_	emark	s	Core <sup>-</sup>	Гор (т)	Core Bas		% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
													3.10				
											contaminatio	sample hole con n observed. No i encountered at	radiological read	bgl. No visual or o dings above backg installed upon com	ound recor	ded.	one
	e 1:37		Note	es: Al	l dim	ensio	ns in m	etres I d	nas sh	ould be read i	n accordance	with the provi	ided Koy Des	criptions are bas	od on vio	ıal and	

LOG	I	Hole Diameter			Recovery				Water	Strikes		
240	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
Ž									3.10			
Š												
ر.												
2												
۳,												
⇟║							General Rem	narks				
N.								sample hole com				
<u>``</u>							contamination	observed. No r	adiological read	ings above bacl	kground recorde	d.
2							1.0 to 2.0m b	encountered at	3.1m bgi. Hole ii	nstalled upon co	impletion. Respo	onse zone
إ≧							1.0 to 2.0111 b	9				

### Hole No. **WINDOW SAMPLE LOG WS125** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 25-06-14 70004430 Harrow Estates Plc 25-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389334.500 **Premier Tracker Compact** Dynamic Sampling Ltd 90.420 J Watson N 382573.630

SA	MPLE	S & TE	_					Danth				STRAT	Ä .				Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Di 5 m
							90.26	,	MAE	DE GROUND:	Reinforced (	CONCRETE.			0 4 4 6	CONC	M
							89.92	(0.34)	MAI	DE GROUND: dstone.	Brown sandy	fine and med	ium angular G	RAVEL of		MG	
0.50-0.60	ES		0				89.82 89.72	0.60 0.70	MAI ash.	. Gravel is clinl		black very sar	ndy fine angula	ar GRAVEL with	P 1 1	MG CONC MG	
							89.57 89.42	- 0.85 - 1.00	1 2445	NCRETE. DE GROUND:	Gravelly orar	nge brown med	dium and coar	se SAND.		NODATA	
.00-1.45	D (S)	2,2,2 3,2,2					89.22	1.20	∖(Gra	vel is fine and DE GROUND:	medium angı	ular of sandsto	ne.	/		MG	
.00-1.20	ES (S)	N=9. 2,2,2 3,2,2	1				89.02		Grav	vel is fine and DE GROUND:	medium of br	ick and variou	s lithologies.			SUPD	
.40-1.60	ES	N=9.	0					_	114	rocarbon odou				TODGOUL	<u> </u>		
.40-1.00	LO					1	00.40	-(0.60)	Firm	dominantly fine	ngth brown sli	ightly sandy sl subangular to	ightly gravelly	CLAY. Gravel is		GDU	
2.00-2.45	D	1,2,1				<u>*</u>	88.42	2.00	$\overline{}$	logies. (GLAC se slightly clay			nedium SAND	. (GLACIAL			1
	(S)	1,1,1 N=4.						(0.50)		POSITS)	.,			( -		GDU	
							87.92	2.50		) - 2.50 m bgl;							
								-		lium dense red POSITS)	ldish brown fi	ne and mediu	m SAND. (GL	ACIAL			
								-									
.00-3.45	D	2,2,3						(0.90)								GDU	
	(S)	3,4,5 N=15.															
							87.02	3.40	_								
								- - -	grav	locally firm me relly CLAY. Grand logies. (GLAC	avel is fine ar	nd medium sul		dy slightly unded of various			
								(0.90)							-0	GDU	
1.00	(0)	2,3,4						_									
	(S)	4,5,6 N=19.					86.12	4.30									
								_		lium dense ora POSITS)	angish brown	medium and o	coarse SAND.	(GLACIAL			] [
								- (0.60)		00110)						GDU	
								-									
							85.52	4.90		n medium strer	nath reddish	brown sliahtly	sandv slightly	gravelly CLAY.			┨
5.00-5.45	D (S)	2,2,3 2,3,2						_(0.55)	Grav	vel is fine and ACIAL DEPOS	medium suba					GDU	
	(-)	N=10.						-(0.55)	(OL)	AOIAL DLI OC	5110)					GDO	
							84.97	5.45	_	5m bgl; window	dess sample	complete			ļ		<i>5</i> Q
								- - -	3.43	om bgi, window	ness sample	complete					
	Hole	Diameter	<u></u>					Reco	verv				Water	Strikes			
Depth		neter (mm)		emark	s	Core	Гор (m)			% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
													2.00				
											General Rer	l narks					
											Windowless to 1.2m bgl. I	sample hole con No radiological re	eadings above b	bgl. Slight hydrocar packground recorde completion. Respo	d. Groundy	vater	

ΩĮ																		
2		Hole	Diameter						Recov	very				Water	Strikes			
욁	Depth	Dian	neter (mm)	R	Remark	s	Core T	op (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Cas	sing
LE LOG WOODF(														2.00				
NDOW SAMP												to 1.2m bgl. N	ample hole com lo radiological re	adings above b	ogl. Slight hydro ackground recor completion. Res	ded. Groundw	ater	

<b>WSP</b>	WINI	DOW SAMPLE	LOG	Hol	e No. <b>WS126</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome	;	She	eet 1 of 1
Job No 70004430	Client	Harrow Estates Plc		Da	te 26-06-14 26-06-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Premier Tracker Compact 110	S McGeever	E 389391.800 N 382514.520		90.270

							110										=
SAM	MPLE	S & TE										STRAT	A				Inst Bac
Depth	Туре	Test Result	Old (Dudd)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			[	Description			Legend	Geology	Di 5 m
							90.12	,	MAE	DE GROUND:	ASPHALT.					TARMAC	ı
).25	ES						89.77	(0.35) 0.50	with		gments of m	etal. Gravel is		gravelly SAND very angular to		GMG	
1.00	D (C)	Sw,Sw,0 1,0,1 N=2.								r soft reddish b	rown slightly	sandy CLAY.	(PROBABLE	MADE		CMG	
2.00	D (C)	1,1,2 2,3,7				<b>±</b>	88.07	2.20									
2.20	ES	N=14.		60		-		- - - -(1.20)	Firm angu	ı dark grey slig ular to subrour	htly sandy g ided of vario	ravelly CLAY. ( us lithologies. (	Gravel is fine t (GLACIAL DE	o coarse POSITS)		GDU	
3.00	D (S)	2,3,3 4,4,4 N=15.					86.87	- - - - - 3.40	Firm	high strength	light roddish	brown mottled	d grev slightly	sandy slightly			
1.00	D	2,3,3		98			86.17		grav		avel is fine to	coarse angula				GDU	
.50	(S)	3,5,5 N=16.						(0.90)	fine	locally firm da to coarse subr POSITS)	rk reddish br ounded to ro	own slightly gr ounded of vario	avelly sandy ( ous lithologies.	CLAY. Gravel is (GLACIAL	0	GDU	
5.00	(S)	6,5,6 6,6,7 N=25.					85.27	5.00	m bọ	gl; window san	nple hole cor	nplete					
	_	Diameter	_					Reco	<del>-</del>					Strikes			
Depth	Diam	neter (mm)	R	emark	s	Core 1	Гор (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike 2.20	Minutes	Standing	Ca	asing
											No visual or No radiologic Groundwate	sample hole con olfactory evidence cal readings abover encountered at	ce of contaminative background r 2.2m bgl.	tion observed.			
	e 1:37	5	Not	es: A	l dim	ensio	ns in me	etres. Lo	nas sh	ould be read i	n accordanc	a with the provi	ided Key Des	crintions are has	ed on visi	ıal and	

		VSP					1	WIN	DOW SAMPLE	LOG	Hol	e No.	NS1	27	
	50-182 M50 M50 phone: 0	SP The Quays 3SP 1161 886 24 ax:	400	-	Proje	ect			Woodford Aerodrome	•	She	eet	1 of	1	
Job No	7000	4430			Clie	nt			Harrow Estates Plc		Da		26-06- 26-06-	-14 -14	
	Dynamic Sampling Ltd  SAMPLES & TESTS  Test  Premier Tracker Cor 110  SAMPLES & TESTS  Test  Premier Tracker Cor 110							ompact	Logged By S McGeever	Co-Ordinates (NGR) E 389434.780 N 382543.730	1	Groun	od Leve		D)
SA	SAMPLES & TESTS									STRATA					Install
Depth	Test QQ M S Result Q a da d							Depth (Thick	De	scription			Legend	Geology	Backfil Dia. 50 mm
	-(0.40						90.01	-(0.40)	CONCRETE.					CONC	
									0.40 m bgl; windowless sample h						

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION, GPJ WSP	-													
000		Hole Diameter				Recovery				Water				
FOR	Depth	Diameter (mm)	Remarks	Core To	op (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Cas	sing
WINDOW SAMPLE LOG WOOD								General Rem Windowless s below concret		ble to be drilled n could not be m	due to unable to oved due to ser	penetrate Mad vices in area.	le Groun	d
08 WSP	Scal	le 1:37.5	Notes: All di manual iden	mension tification	ns in m	etres. Logs sh	hould be read	in accordance	with the provi	ded Key. Desc	criptions are b	ased on visua	al and	

# Hole No. **WINDOW SAMPLE LOG WS128** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 26-06-14 70004430 Harrow Estates Plc 26-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389444.710 N 382538.380 **Premier Tracker Compact** Dynamic Sampling Ltd 90.380 S McGeever

		.pg _				1	110					IN	382538.380	,			
SA	MPLE	S & TE							1			STRAT	A			1	Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Di 5 m
0.10			0				90.13	-	1	DE GROUND:	ASPHALT.					TARMAC	
								(0.35)	MAE			nottled black s ninantly sands		oarse angula	ar to	GMG	
0.70			0				89.78	0.60	MAE	DE GROUND:	Light orangisl	n white sandy subrounded t	GRAVEL with	occasioal	lv X		ı
1.00		9,7,8						(0.75)		dstone.						GMG	
1.00	(C)	5,3,2 N=18.					89.03										
1.35	ES	•	0				88.93	- 1.45 -	4 C	DE GROUND: c and various I	Black sandy f	ine angular to	subrounded (	GRAVEL of		GMG	
1.50	ES	٠	0					- - -	Firm	and stiff redd	ish brown slig	htly gravelly sl ubrounded of v	ightly sandy C various litholo	CLAY. Grave gies. (GLAC	I is	-	
2.00	D (S)	2,1,2 3,3,3 N=11.	0					-									
				62				- - -									
								-									
3.00	(C)	3,3,3 4,4,6 N=17.						(3.55)								GDU	
				100													
				140+				_									
1.00	D (S)	2,3,4 6,9,9	0			1		-									
		N=28.				<u>*</u>		-									
				70				-									
				78			85.38	5.00									
5.00	(C)	2,2,4 5,5,6 N=20.						-	5.0n	n bgl; window	sample hole o	complete					
		20.						-									
								[									
								-									
	Hole	Diamete	r					Reco	very				Water	Strikes		1	
Depth	Dian	neter (mm	) R	temark	s	Core 7	Гор (т)			% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
													4.30				
											No visual or o No radiologica Groundwater	narks sample hole com lifactory evidenc al readings abov not encountered upon completio	e of contamina e background re I.	tion observed. ecorded.			

'nΙ												
ĕ[	I	Hole Diameter			Recovery				Water	Strikes		
ORD	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
LOG WOODF									4.30			
P WINDOW SAMPLE L							No visual or o No radiologica Groundwater	sample hole com olfactory evidence al readings above not encountered	e of contaminate background red	tion observed.	ogl.	

<b>WSP</b>	WIN	DOW SAMPLE		Hole No. WS129
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome		Sheet 1 of 1
Job No 70004430	Client	Harrow Estates Plc		26-06-14 26-06-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
Dynamic Sampling Ltd	Premier Tracker Compact 110	S McGeever	E 389543.940 N 382625.480	90.730

SA	MPLE	S & TE			_			Donth				STRAT	A				Inst Bad
Depth	Туре	Test Result	(Vmdd)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			С	Description			Legend	Geology	Di 5 m
.10			0				90.53	_ ′	MAE	E GROUND:	ASPHALT.					TARMAC	
. 10		•					90.23	(0.30)	MAE suba	E GROUND: angular to rour	Light grey sa	andy GRAVEL. ominantly limes	Gravel is fine stone.	and medium		GMG	
.50	ES	•					90.08		Med	ium dense ora	ngish brown	medium SAN	D. (GLACIAL I	DEPOSITS)		GDU	
.60			0					-	Stiff	medium stren	gth reddish b	orown slightly s	andy slightly g	gravelly CLAY.	-0		
.80	ES	•								ACIAL DEPOS							
.00	D (S)	1,1,1 1,1,1															
		N=4.						-									
								F									
				68				-									
								-									
2.00	D (S)	1,2,1 2,2,3						-							-		
	(0)	N=8.						-									
				50				-									
				30				-									
								(4.35)								GDU	
.00		3,3,3						- 1									
	(S)	3,4,5 N=15.															
								-									
								-									
								-							0		
								_									
.00	D (S)	1,2,2 3,3,5 N=13.						-							0		
		IN- 13.						-									
															-		
							85.73	5.00									
.00	(S)	4,5,6 7,7,10						-	5.0n	n bgl; window	sample hole	complete					
	, ,	N=30.						-									
								-									
								-									
D: "		Diamete	_	•		0	F / . T	Recove	_	0/ 5	D.:	T -		Strikes	01- "		_
Depth	Dian	neter (mm	) R	emark	s (	Core	Гор (т)	Core Base	e (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asino
											General Day	marks					
											No visual or No radiologic Groundwater	marks sample hole cor olfactory evidence al readings abor r encountered at d. Response zor	ce of contaminative background r 2.80m bal.	tion observed. ecorded.			
			1											criptions are b			

<b> ₩SP</b>		WINE	OOW SAMPLE		Hole	e No. <b>WS130</b>
WSP 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 26-06-14 26-06-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	S McGeever	E 389633.360 N 382620.340		92.060

SA	MPLE	S & TE	_					l e				STRAT	A				Ins Bad
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				С	escription			Legend	Geology	Di 5 m
0.10	ES							-ness) - -(0.37)	Dark	brown slightl	ly gravelly silty	fine SAND wi	th rootlets (To	OPSOIL)	711 <sub>N</sub> 7/11	TS	
		•					91.69								1/2/1/	15	
0.40			0					-	Ligh	t whitish oran	gish brown cla	ayey fine SAND	D. (GLACIAL	DEPOSITS)			
								(0.53)							<u> </u>	GDU	京
							91.16	0.90					10.11				
1.00	D	1,2,3	0					-	sand	ty CLAY Grav	vel is fine and	medium andu	lar to rounded	lightly gravelly d of sandstone,			2
	(S)	3,5,5 N=16.						_	mud	stone and var	rious lithologie	es. (GLACIAL I	DEPOSITS)				
								_									浴
				132				-							0		
								_									
2.00	D	4,4,5	0					(2.20)							-0	GDU	0
	(S)	6,5,6 N=22.						-									双
								-							-0		SS SS
				80				<u> </u>									8
								-									器
		0.5.					00.00	<u> </u>									
3.00	(C)	3,3,4 5,4,5					88.96	3.10	Med	ium dense lig	ht reddish bro	wn fine to coa	rse SAND. (G	LACIAL	<del>                                     </del>		E CONTRACTOR
		N=18.						_	DEF	POSITS)							农
3.50			0														2
																	200
								_									公公
4.00	(C)	4,4,4 4,6,5						(1.90)								GDU	
		N=19.															
								-									2
4.80	ES						87.06	5.00									E S
5.00	(C)	4,4,5 3,6,6					07.00	- 3.00	5.0n	n bgl: Window	less sample l	nole complete					unc
	(0)	N=20.						-									
								-									
								-									
								-									
		Diamete	_				_ , .	Recov			_	I		Strikes			
Depth	Dian	neter (mm	R	emark	is (	Core -	Гор (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
												<u> </u>					
											General Rer Windowless	sample hole com	plete at 5.00m	bgl.			
											No visual or on the No radiologic Groundwater	olfactory evidence al readings above not encountered	e of contamina e background i	tion observed.			
				· • ·	0 -00							ed upon completi		t-st		1	
Sca	le 1:37	.5				ensic		erres. Lo	ogs sn	iouid be read	iii accordance	with the provi	uea ney. Des	criptions are ba	isea on visi	ıaı and	

ဖွှ၂																		
9	ŀ	lole	Diameter						Recov	ery				Water	Strikes			
ORD	Depth	Diam	neter (mm)	F	Remark	s	Core T	op (m)	Core Bas	e (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Cas	sing
WINDOW SAMPLE LOG WOODFC		Diameter (mm) Remarks										No visual or o No radiologica Groundwater	sample hole com lfactory evidence al readings above not encountered	e of contaminati e background red.	ion observed.			
≥												noie backlille	d upon completi	OH.				

#### Hole No. **WS131 WINDOW SAMPLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 25-06-14 70004430 Harrow Estates Plc 25-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389736.550 **Premier Tracker Compact** 89.740 Dynamic Sampling Ltd S McGeever N 382506.760

SAI	MPLE	S & TE	STS									STRAT	Α				Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Di 50 mi
							89.66 89.59	-ness) - 0.08 - 0.15	MAE	DE GROUND:	Brown slightl	y clayey slightl	ly gravelly SAI	ND with rootlets.	11/2 X11/	TS GDU	
							09.59	- 1		vel is fine angu DE GROUND:					<del></del>	GDU	
				400			89.29	- 0. <del>4</del> 5	pred	lominantly coa	l. <u> </u>				[===		<b>%</b>
0.50			0	130				-		dark brown Clium dense bro			,	/ ITS)			
								(0.75)			· ·	,		,		GDU	8
1.00		2 5 6						_									
1.00	(C)	3,5,6 6,5,6 N=23.					88.54										
		IN-23.						_	Med	ium dense ligh	nt yellowish b	rown SAND. (0	GLACIAL DEF	POSITS)			
								-									Ž,
								-									8
2.00	D (C)	1,1,2 3,5,6	0					<del>(</del> 1.60)								GDU	
	(0)	3,5,6 N=16.															公
								-									
2.50	ES					ا را		<u> </u>									
						<u>‡</u>	86.94		Med	ium dense rec	ldish brown fi	ne and mediur	m SAND. (GL	ACIAL			
3.00		3,4,3						-		POSITS)		ana moaia	0, (02.				欧
	(C)	3,2,3 N=11.						-									
								-									Ž,
								-									8
								-									
.								-(2.20)								GDU	
4.00	D (C)	2,3,2 3,3,3	0														
		N=11.						-									
								-									
							84.74	5.00									S
5.00	(C)	1,1,2 3,2,3						-	5.0n	n bgl; Window	sample hole	complete					
	(0)	N=10.						-									
								-									
								-									
								-									
Donth		Diameter		om =='	_	Co 7	on (==)	Recov		0/ Doc	Deta	Tiere		Strikes	Ctondi	T _	:-
Depth	Dian	neter (mm)	K	emark	.S	Core I	ob (m)	Core Base	e (m)	% Recovery	Date	Time	Strike 2.80	Minutes	Standing	0	asing
											General Des	narke					
											No visual or on No radiologic Groundwater	narks sample hole con olfactory evidenc al readings abov encounterd at 2 d upon completi	ce of contamina ve background r l.8m bgl.	tion observed.			
							I				I IOIC DACKIIIIC	a apon completi	OII.				

# Hole No. **WINDOW SAMPLE LOG WS132** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 27-06-14 70004430 Harrow Estates Plc 27-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389422.910 N 382347.770 **Premier Tracker Compact** 87.450 Dynamic Sampling Ltd S McGeever 110 Install /

MPLE	S & TE	STS									STRAT	`A				Insta
Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	(Thick			С	escription			Legend	Geology	Dia 50 mr
ES		0				87.22	ļ .	root	lets. Gravel is	fine and med				××××	GMG	I
			46			86.90	-(0.32) - 0.55	MAI is fir	DE GROUND: ne and medium	Firm brown s	slightly gravelly r to rounded o	slightly sand f brick, coal a	y CLAY. Gravel nd various		CMG	
ES D	1,1,1	0 0	28				(0.80)	MAI	DE GROUND: AY. Gravel is fir	ne and medic	light grey slig ım very angula	htly sandy slig ar to rounded	htly gravelly of coal, brick and		CMG	
(S)	2,1,2 N=6.					86.10	- - 1.35									ı
							-	CLA	AY. Gravel is fir	ne very angul						
			98				-									
D (C)	2,2,3 4,4,7 N=18.		122				(1.55)								GDU	
			130			94 55	2.00									
D	2,2,3					04.55	2.90						and medium	0000		
(C) ES	3,4,4 N=14.	0					(0.85)							0000	GDU	
						83.70	- 3.75	Med	lium dense ligh	nt brown fine	and medium S	SAND. (GLAC	IAL DEPOSITS)	0 0 0		
(C)	3,3,3 4,5,5 N=17.						- - - -	Wica	aum dende ligi	ic srown inio	and modium c	<i></i>	we ber don't			
							L(1.25)								GDU	
	5,6,5					82.45	5.00	5.0 ו	mbal: Window	less sample	hole complete					
(C)	6,5,7 N=23.								•							
Hala	Diamete						- -					10/242	Obrile a			
_		_	emark	s	Core	Гор (m)			% Recovery	Date	Time	VV ater Strike		Standing	Ca	asing
										Windowless No visual or No radiologic No groundwa	sample hole cor olfactory evidend al readings reco ater encountered	ce of contamina orded above back.	tion observed. ckground.	zone 1.501	o 5.00m	bal.
	Type ES ES D (S) C(C) C(C) Hole	Type Result  ES .  ES .  D 1,1,1,1 (S) 2,2,2,3 (A,4,7 N=18.  C) 3,4,4 N=14. ES .  (C) 3,5,5 N=17.  (C) 5,6,5 N=17.	ES . 0  ES . 0  D 1,1,1 0  N=6.  D 2,2,3 4,4,7 N=18.  C 3,4,4 N=14.  ES . 0  (C) 3,3,4,4 N=14.  ES . 0  (C) 3,6,5 N=17.	Type   Test Result   Q   Q   Q   Q   Q   Q   Q   Q   Q	Type   Test Result   C   L   L   L   L   L   L   L   L   L	Type   Test Result   G   G   G   G   G   G   G   G   G	Type	Type   Test Result   Q   Q   Q   Q   Q   Q   Q   Q   Q	Type   Test Result   Class   C	Test Result	Type	Type	Type Test Result a	Type Test Result Q S Type Q S	Type   Test   Q   E   E   E   Q   E   E   E   E   E	Type Test Result   S   S   S   S   S   S   S   S   S

ည်[																	
<u>ğ</u> [	I	Hole Diar	neter					Reco	very				Water	Strikes			
묎	Depth	Diameter	(mm)	Remar	ks	Core 7	Top (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
LE LOG WOODF																	
WINDOW SAMPL											No visual or o No radiologica No groundwa	sample hole con olfactory evidence al readings reco ter encountered	nplete at 5.00m lie of contaminat rded above back talled upon com	ion observed. kground.	se zone 1.50 to	5.00m l	bgl.

# Hole No. **WINDOW SAMPLE LOG WS133** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 27-06-14 70004430 Harrow Estates Plc 27-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389405.110 N 382314.600 **Premier Tracker Compact** Dynamic Sampling Ltd S McGeever 87.530

SA	MPLE	S & TE	STS									STRAT	A				Insta Back
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Dia 50 mn
-				Ť			07.00	-ness)	MAE	DE GROUND:	CONCRETE	<u> </u>			9 4 9	CONC	
							87.32	(0.29)	MAI angi	DE GROUND:	Yellowish brounded GRAV	own very sandy EL of predomi	y fine and me	dium very one (SUBBASE).		GMG	
0.55	ES		0	65			87.03	(0.70)	Grav	DE GROUND: vel is fine and dstone and va	medium very	angular to sub	lightly sandy ( prounded of br	gravelly CLAY. rick, mudstone,		CMG	
1.00	D (S)	1,1,1 1,1,1 N=4.	0			<b>1</b>	86.33	1.20	Soft	arevish brown	n eliahtly eand	ly slightly grave	ally CL AV with	occasional			
1.40	ES		0	30				-	orga	nic material.	Gravel is fine	and medium v	ery angular to	subrounded of			NO STOCK
- 2.00	D (S)	Sw,Sw,0 1,1,1 N=3.	0					- - - -							-71/0 -0		\$2555 \$2555
				20				(2.50)							<u> </u>	SUPD	625257 625257
3.00	D (S)	1,1,1 1,2,1 N=5.	0	75				-									
- 4.00		3,4,5		73			83.83	_	Med DEF	lium dense lig POSITS)	ht orangish br	rown fine and r	medium SANE	D. (GLACIAL	9		
1.00	(C)	7,7,9 N=28.						-(0.80) -								GDU	
4.50	(C)	5,9,11 11,13,14 N=49.					83.03	4.50	4.5n	n bgl; Window	rless sample h	nole refusal					
-																	
	_	Diameter						Reco				I		Strikes			
Depth	Dian	neter (mm)	R	emark	s	Core <sup>-</sup>	Top (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike 1.20	Minutes	Standing	Ca	asing
											No visual or on the No radiologic No groundward No groundw	sample hole con olfactory evidency al readings reco	e of contaminat rded above bac ntered, seepage	tion observed.	untered at	1.2m bgl.	
Scal	e 1:37	7.5		es: A nual i				etres. Lo	ogs sh	ould be read	in accordance	with the provi	ded Key. Des	criptions are base	ed on visu	ual and	

ıχ																		
3		Hole	Diameter	-					Reco	very				Water	Strikes			
욁	Depth	Diam	neter (mm)		Remark	(S	Core	Top (m)	Core Ba	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
LE LOG WOODF(														1.20				
WINDOW SAMP												No visual or o No radiologica No groundwa	sample hole com lfactory evidence al readings reco	e of contamination of c	ion observed.	countered at	1.2m bgl.	

# Hole No. **WINDOW SAMPLE LOG WS134** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 03-07-14 70004430 Harrow Estates Plc 03-07-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389956.270 N 381557.400 **Premier Tracker Compact** Dynamic Sampling Ltd S McGeever 82.980

SAI	MPLE	S & TE	STS						•			STRAT	A				Inst
Depth	Туре	Test Result	PID (ppmV)	HSV kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				С	escription			Legend	Geology	Di 50 mi
							82.83	<u>-ness)</u> - 0.15	MAE	E GROUND:	CONCRETE	<u>.</u>			P 5 4 0	GMG	
							82.33	- - -(0.50)	GRA		s fine to coar	yellowish brov se very angula				GMG	
).80	ES		102				81.98	(0.35)	angu		I GRAVEL of	ash, asphalt,		nd course, very er.		GMG	
.00	D (C)	Sw,Sw 1,1,1 N=4.					01.90	-		to stiff mediu			ightly gravelly	slightly sandy			
				50				(1.10)								ALV	
				52				- - -									
2.00	D (C)	2,3 3,3,2				ϫ	80.88	2.10		ium dense red	dish brown s	lightly clayey S	SAND				
.10	ES	N=9.										3 1, 11, 1, 1,					
								- - -	2.50	m bgl; relict o	rganic matte	r.					
.00	(C)	1,2 2,3,4 N=14.						- - -		- 3.10 Band o el of various li		ne and mediur	n, subrounded	I to well rounded			
								-									
								_(2.90) - -								ALV	
.00	(C)	3,3 3,4,5 N=19.						-									700
		14-19.						- - -									
							== 00	-									
.00	(C)	4,4 5,4,5					77.98	5.00	5.0m	n bgl; Window	ess sample l	nole complete					
		N=20.						- - -									
								- - -									
	Hole	Diamete	r					Reco	very				Water	Strikes			
Depth	Dian	neter (mm)	) R	emark	s	Core 7	Гор (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike 2.10	Minutes	Standing	Ca	sing
													2.10				
											Olfactory evi- No radiologic Groundwater	sample hole con dence of hydroc cal readings above encountered at	arbon contamina /e background r 2 1m bal	ation observed at 0		bgl.	
	1		1														

2	ŀ	Hole Diameter			Recovery				Water	Strikes		
	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
E LOG WOODF(									2.10			
WINDOW SAIVILE							Olfactory evid No radiologica Groundwater	sample hole com	arbon contamina re background ro 2.1m bgl.	ation observed a ecorded.	t 0.65m to 1m bo	gl.

# Hole No. **WINDOW SAMPLE LOG WS135** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 03-07-14 70004430 Harrow Estates Plc 03-07-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389963.560 N 381525.670 **Premier Tracker Compact** Dynamic Sampling Ltd S McGeever 82.910

SAN	MPLE	S & TE	STS									STRAT	A				Insta Back
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Dia 50 mn
							82.72	,	MAE	DE GROUND:	ASPHALT.				P 6 4 P	CONC	
							82.36	(0.36)				slightly clayeys nded of various		L. Gravel is fine		GMG	
1.00	D (C)	Sw,Sw,Sw 1,0,0 N=0.	125				52.00	- - - - - - - - - - - - - - - - - - -	ash.	Gravel is fine	very angular	gravelly slight to subrounded n odour and sh	of various lith	Y with frequent nologies.		GMG	
		·	120	24			81.41	1.50	Firm	locally soft de	rde arou aliabi	ly aandy aliabt	ly grayally Cl	A.V. with	XX		
1.60	ES	٠		65			81.01	- -(0.40) 1.90	occa	asional organio	matter. (SUI	tly sandy slight PERFICIAL DE	EPOSITS)			SUPD	
2.00	D (C)	1,1,1 1,2,1 N=5.	1					-		brown slightly POSITS)	sandy CLAY	with organic r	natter. (SUPE	RFICIAL			
		N=5.						- -(1.00) - -							/	SUPD	
						<u>1</u>	80.01	2.90	Loos	se hecoming r	nedium dense	hrown coared	SAND and fi	ne and medium	0000		
3.00	(C)	1,0,1 0,1,1 N=3.				<del>-</del>		-	well	rounded GRA	VEL of variou	us lithologies. (	GLACIAL DE	POSITS)		; ;	
1.00	(C)	2,2,2 2,3,2 N=9.						(2.10) 								GDU	2000 X
1.50	ES		0					- - -							0.50		
5.00		2,3,2					77.91	5.00	\A/in	doudoos somm	la hala aama	lete at 5.0m bo	-I		.0 0.0		S
5	(C)	3,4,4 N=13.						-	*****	asmoos damp	is note comp		<b>,</b> .				
	Hole	Diameter	r					Recov	very				Water	Strikes			
Depth	Diam	eter (mm)	R	emark	s (	Core T	op (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
											Strong olfactors No radiologic	sample hole con	nydrocarbon cor re background r	tamination observe	ed from 0.5	5m to 2m	bgl
														ne from 3.0 to 4.0n	n hal		

**												
ğ	ŀ	Hole Diameter			Recovery				Water	Strikes		
25	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
Ĕ									3.00			
Š												
<u>ر</u>												
₹												
⇟							General Rem	narks				
ĕ							Windowless s	sample hole com	nplete at 5.00m l	oal.		
>							Strong olfacto	ory evidence of h	vdrocarbon con	tamination obse	erved from 0.55	m to 2m bal.
S								al readings abov				
₽								encountered at				
⋚								upon completio		ne from 3.0 to 4	.0m bal.	

# Hole No. **WINDOW SAMPLE LOG WS136** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 03-07-14 70004430 Harrow Estates Plc 03-07-14 Contractor / Driller Method/Plant Used Logged By Co-Ordinates (NGR) Ground Level (m AOD) F 389802 500 Premier Tracker Compact Dynamic Sampling Ltd J Watson 82.900 N 381552.720 Install **SAMPLES & TESTS STRATA** Depth HSV (kN/m2) P.Pen (kN/m2) PID (ppmV) Dia. Elev. Test Depth Description Legend Geology 50 (mAOD) (Thick Result mm MADE GROUND: ASPHALT 82.85/ 0.05 ES 0.10-0.30 MADE GROUND: Reinforced CONCRETE. (0.45) CONC 82.40 82.30 0.60 0.50-0.60 ES MADE GROUND: Black sandy fine and medium angular GRAVEL of ash MG 82.20 0.70 GDU 40 and clinker 0.70-0.80 ES Soft medium strength dark greenish grey sandy CLAY. (GLACIAL DEPOSITS) Loose orange brown and greenish grey slightly clayey silty fine SAND. (GLACIAL DEPOSITS) 1.00 1,0,1 1,1,1 N=4. (S) (0.90) GDU 1.60 1.70 1.80 81.30 81.20 GDU GDU Firm red brown sandy CLAY. (GLACIAL DEPOSITS) 36 81.10 Red brown clayey fine SAND. (GLACIAL DEPOSITS) o Soft and firm low strength brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium, subrounded to rounded of various lithologies. 28 2.00-2.45 1,0,1 1,1,1 N=4. 26 (GLACIAL DEPOSITS) (S) \_\_\_\_\_\_ 28 30 70 2.80 m bgl; becoming high strength 110 WSPETEMPLATE1.03.GDT 3.00-3.45 2,3,3 108 (2.65) GDU 4,3,4 N=14 (S) 80 3.45 - $3.46\ m$ bgl; lense of coarse sand 128 80 100 4.00-4.45 3,4,4 4,5,5 N=18. 08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION. GPJ (S)

_												
	Hole Diamete	r		Recove	ery			Water	Strikes			
Depth	Diameter (mm	Remarks	Core Top	(m) Core Base	(m) % Recovery	Date	Time	Strike	Minutes	Standing	Casi	ing
								0.80				
						contamination	sample hole con n observed. No encountered at	radiological rea	bgl. No visual o dings above bac le installed upon	kground record	ed.	

Window sample terminated at 4.45m bgl

78.45

4.45

Scale 1:37.5

		VSP					1	WIN	DOW	SAMPL	ΕL	_OG		Но	ole No.	NS1	37	
	150-182 M50 phone: (	SP The Quays ) 3SP )161 886 2 ax:			Proje	ect			Woodfo	ord Aerodror	ne			Sh	neet	1 of	1	
Job No	7000	)4430			Clier	nt			Harro	w Estates Plo				Da	ate	03-07- 03-07-	14 14	
Contract	or / Dri	ller		Meti	nod/l	Plan	t Used		Logged E	Ву	С		ites (NGR)		Grour	nd Leve	(m AO	D)
Dynan	nic Sar	npling L	td	Pre	emie		acker C 110	ompact	S	McGeever			389873.280 381403.440			82.3	360	
Si	AMPLE	ES & TE										STRAT	4					Install Backfil
Depth	Туре	Test Result	Old (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Descri	ption				, and	Geology	Dia. 50 mm
- -0.15 - - - - -	ES			84			82.21 82.14	- 0.15 - 0.22 - - - -	MADE GROU to coarse ver Firm to stiff n CLAY. Grave	JND: CONCRET JND: Reddish bro y angular to subro nedium strength r el is fine and medi GLACIAL DEPOS	own ve ounded eddish um an	d of predo brown sli	minantly brick ghty gravelly s	and coa	al/ sandy		CONC GMG	
 _1.00 - - -	D (C)	2,1,2 1,2,2 N=7.		60				(1.43)	1.20 m bgl; C	Cobble of subroun	ded sa	andstone.					GDU	
- - - - 2.00	D	2,2,3		48			80.71	-(0.30)	Firm to stiff n CLAY. Grave lithologies. (0	nd medium SANE nedium strength relis fine and medi GLACIAL DEPOS h brown fine to co	eddish um an ITS)	brown sli gular to w	ghty gravelly s ell rounded of	various	sandy		GDU	
- - - - _2.60	(S)	1,2,2 N=8.						- - - -	20000 100010	n brown into to oc	, di 00 C	,		.0110)				
- 3.00 - - - - - -	(C)	1,2,1 0,1,1 N=3.				<u>‡</u>		-(2.05)									GDU	
							78.36	4.00	4.00 4.0m bg	l; Windowless sa	mple h	nole comp	lete at 4.00m	ogl.				
	Hole	Diamete	<u>                                     </u>					Recov	ery				Water	Strikes				
Depth	Diar	neter (mm	) Re	emark	s (	Core <sup>-</sup>	Top (m)	Core Bas	e (m) % Reco	very Date		Time	Strike 3.00	Minut	tes	Standing	Ca	asing

က္က												
Γο		Hole Diameter			Recovery				Water	Strikes		
ORD	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
DF(									3.00			
ΛOV												
9												
ELC												
AMPLE							General Rem	narks				
SAI								ample hole com				
δ								offcatory evidence al readings abov				
ξ								seepage encour upon completion			0m hal	
≥												
8 WS	Scal	e 1:37.5	Notes: All dir		netres. Logs sh	ould be read i	in accordance	with the provi	ded Key. Des	criptions are ba	ased on visu	al and
٥I												

<b>WSP</b>	WINI	DOW SAMPLE		Hole No. WS138
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome		Sheet 1 of 1
Job No 70004430	Client	Harrow Estates Plc		03-07-14 03-07-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	Ground Level (m AOD)
Dynamic Sampling Ltd	Premier Tracker Compact 110	J Watson	E 389926.820 N 381372.650	82.200

MPLE											STRAT	Α				Inst Bac
Туре	Test Result	PID (bpmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	(Thick			D	escription			Legend	Geology	Di 5 m
						82.14	-ness) 0.06	MAE	E GROUND:	ASPHALT.					TARMAC	20
ES	٠						(0.59)	fragr	ments of ash.	Dark grey bro Gravel is fine	wn and black to coarse ang	sandy GRAV ular of clinker	EL with , limestone and		MG	25.5
						81.55	- 0.65							$\wedge \wedge \rangle$		
ES			58				-	Firm	locally soft m	edium strengt	h dark greenis	sh grey to gree	enish brown			
			32				_		1. (001 2141	011 KE DE1 00	10)					
D (S)	1,1,2 2.3.4						_(0.85)								SUPD	
	N=11.						-									
						80.70	1.50									8
					1		-	Loos	se brown med	ium to coarse	SAND. (SUPE	ERFICIAL DE	POSITS)	- : - : - :		
					Ţ		-									
_	0.01						(0.90)								SUPD	Ø,
(S)	0,1,0						-									反
	IN-Z.					79.80	2.40									
							_	Soft   2.50	low strength r m bgl; becom	eddish brown ning medium s	very sandy Cl trength	.AY. (GLACIA	AL DEPOSITS)			
							-			J	J					Z,
							(1.05)								GDU	
D	1,1,2															
(5)	2,2,2 N=8.						-									
						78.75	- 3.45	10//		1- 1- 1	-110 45 h	-1				2
		_								_						_
Dian	ieter (mm)	) R	emar	KS	Core -	1 op (m)	ore Bas	se (m)	% Recovery	Date	Time	Strike 1.80	iviinutes	Standing	Ca	asing
										Windowless s No visual or o No radiologic Groundwater	sample hole com olfactory evidence al readings above encountered at	e of contaminate e background r 1.80m bgl.	tion observed.			
	ES D (S) D (S)	Type Result  ES .  D 1,1,2 (S) 2,3,4 (N=11.  D 0,0,1 (0,1,0 (N=2.)  D 1,1,2 (2,2,2 (N=8.)	ES  D 1,1,2 (S) 2,3,4 (N=11.)  D 0,0,1 (N=2.)  D 1,1,2 (N=2.)  D 1,1,2 (N=2.)  D 2,2,2 (N=8.)	Type Result Q (	Type   Test Result   Q   Q   Q   Q   Q   Q   Q   Q   Q	Type   Test Result   G   G   G   G   G   G   G   G   G	Type	Type   Test Result   2	Type   Test   Ca   Ca   Ca   Ca   Ca   Ca   Ca   C	Type   Test	Type	Type Result Q S S S S S S S S S S S S S S S S S S	Type Test Result & Q & & & & & & & & & & & & & & & & &	Type   Test   Result   Result	Property   Property	Type   Test   Result   Result

었												
ĕ	ŀ	Hole Diameter			Recovery				Water	Strikes		
ORD	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
WOODF									1.80			
FOG												
WINDOW SAMPLE							No visual or o No radiologica Groundwater	narks sample hole com- olfactory evidence al readings abovencountered at d upon completion	e of contaminative background re 1.80m bgl.	ion observed.		1

# Hole No. **WINDOW SAMPLE LOG WS139** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 30-06-14 70004430 Harrow Estates Plc 30-06-14 Logged By Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Ground Level (m AOD) E 389801.800 N 381340.020 **Premier Tracker Compact** Dynamic Sampling Ltd S McGeever 82.130

SAI	MPLE	S & TE	STS									STRAT	Ą				Ins
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	D
			Ť		$\overline{}$			-ness)	MAE	DE GROUND:	ASPHALT.					TARMAC	50
							81.93	0.20	MAE	DE GROUND:	Loose black s	sandv GRAVE	L with frequer	nt ash. Gravel is			
0.30	ES		0				81.68		fine	and medium a	angular to sub	rounded of asp	phalt and varie	ous lithologies.		GMG	2
							81.58	- 0.55		DE GROUND:			madium angu	lar to rounded of	$\longrightarrow$	GMG	
							01 12	(0.45)	vario	ous lithologies	iy CLAT. Grav	vei is line and l	medium angu	iar to rounded or		GDU	がある
.00		2,3,4					81.13	1.00	Loos	se whitish brov	wn fine and m	edium SAND.			XX		<b>X</b>
	(S)	2,3,3 N=12.						(0.60)								GDU	200
								-(0.60)								GDU	2
						Ţ	80.53	1.60									器
.70	ES		0					-	roun	se grey fine to ded of various	coarse grave lithologies.	lly SAND. Grav Blowing condit	vel is fine sub ions.	rounded to well	0		
								-									
2.00	(S)	1,1,1 2,1,2						F									
	(5)	N=6.						ļ									器
								ţ									浴
								-							0		NA PA
								F							0		
		40-						Ļ							0		
.00	(S)	1,2,2 3,3,4						E	3.00	m bgl; becom	ning medium o	dense.					
		N=12.						-(3.40)							0	GDU	
								-									
								-							0		
								Ŀ									0
1.00								-							0		0
	(S)	•						-									Q
								-							0		Ž.
								Ŀ									Ž.
								-							0		Ž,
							77.13	5.00									2
.00	(C)						77.10	- 5.00	Win	dowless samp	le hole compl	ete at 5.00m b	gl.				u v
	(S)							-									
								Ŀ									
								-									
								[									
		Diamete						Reco						Strikes			
Depth	Diam	neter (mm)	) R	emark	s (	Core 7	Top (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asin
													1.60				
											No olfactory of No radiologic Groundwater	sample hole come evidence of conta al readings above encountered at	amination obser e background r 1.6m bal	ved.	ns.	'	

ιχL												
ğ[	ŀ	Hole Diameter			Recovery				Water	Strikes		
	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
E LOG WOODF									1.60			
SP WINDOW SAMPLE							No olfactory e No radiologica Groundwater Unable to inst	narks sample hole com- evidence of contral readings abovencountered at tall windowless s	amination obser re background re 1.6m bgl. sample hole due	ved. ecorded. to blowing cond		

<b>WSP</b>	WINI	DOW SAMPLE	LOG	Hole	e No. <b>WS140</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430	Client	Harrow Estates Plc		Dat	te 03-07-14 03-07-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Premier Tracker Compact 110	S McGeever	E 389819.590 N 381373.600		82.130

MPLE	S & TE						Denth				STRAT	A				Inst Bac
Туре	Test Result	PID (ppmV)	HSV (kN/m2	P.Pen (kN/m2	Water	Elev. (mAOD)				D	escription			Legend	Geology	Di 50 mi
						81.96	1 1	MAE	E GROUND:	ASPHALT.					TARMAG	
		0					(0.39)	asph	nalt and brick.	Gravel is fine	gravelly SAN to coarse ang	D wirh occasion	onal cobbles of ed of		GMG	
ES	٠	0					(0.34)	MAE fine	E GROUND: and medium s	Black slightly ubangular to	gravelly SAN rounded of va	D with frequer rious lithologie	it ash. Gravel is es.		GMG	
(C)	4,4,3 4,5,4				₹					nt grey mediu	m SAND. (GL	ACIAL DEPO	SITS). Blowing			
ES	N=16.	0					-									
(C)	2,2,3 4,5,6 N=18.						- - - - -									
							(3.10)								GDU	
(C)	٠						- - - -									
						78.13										
							-	vviii	uowiess samp	ie noie termii	ialeu al 4.00m	i bgi.				
							- - - - -									
Hole	Diamete	r					Recove	ery				Water	Strikes			
Dian	neter (mm	R	emark	s	Core	Fop (m)	Core Base	e (m)	% Recovery	Date	Time	Strike 1.10	Minutes	Standing	Ca	asing
										Windowless: No olfactory of No radiologic Groundwater	sample hole con evidence of cont al readings abov encountered at	amination obser re background re 1.1m bgl.	ved. ecorded.	ons		
	ESS (C) ESS (C)	Type Result  ES  (C) 4,4,3 4,5,4 N=16.  ES  (C) 2,2,3 4,5,6 N=18.	C   C   C   C   C   C   C   C   C   C	Type   Test Result	Type   Test Result   Q   Q   Q   Q   Q   Q   Q   Q   Q	Type   Test Result	Type   Test Result   Q   Q   Q   Q   Q   Q   Q   Q   Q	Type   Test Result   Q   Q   Q   Q   Q   Q   Q   Q   Q	Type	Test	Type	Type   Test   Result	Type Test Result & & & & & & & & & & & & & & & & & & &	Type Result Q	Properation   Properation	Type   Test   Result   Resul

#### Hole No. **WINDOW SAMPLE LOG WS141** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project 1 of 1 Woodford Aerodrome Fax: Job No Client Date 30-07-14 70004430 Harrow Estates Plc 30-07-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389852.330 **Premier Tracker Compact** 82.440 Dynamic Sampling Ltd S McGeever N 381250.200 110

			Not								Window san Strong olfac bgl. No radiologi Groundwate	nple complete at tory evidence of cal readings abo r not encountere	hydrocarbon colove background in ed.	ntamination observe ecorded. one 2.0 to 5.0m bgl.	d from 0.4	5m to 2.0	) m
											General Re	marks					
Depth	Dian	neter (mm)	R	temark	s	Core 7	Гор (m)	Core Ba	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
	_	Diameter						Reco						Strikes	o		<del>-</del>
.00 .00 Depth							11.44			dowless samp	le hole comp	olete at 5.00m	bgl.				
							77.44	- - - - - - 5.00									
.00	D (S)	5,5,6 7,8,10 N=31.						(2.90)								GDU	
.00	D (S)	3,2,4 3,5,5 N=17.		70				- - - -	2.90	) - 3.00 m bgl;	Cobble of sa	ndstone					
.60	ES			110						,							
	(0)	N=10.						- - -	DEF	POSITS) - 2.60 m bgl;		, ,	OLAT. (GLA	JIAL .	)		
.00	D (C)	3,2,3 3,2,2					80.34	- - 2.10		locally stiff ==	ddieh brown	eandy gravall	/ CLAY. (GLA	SIAI			
		N=0.						(0.90)	sand		rel is fine to o RFICIAL DE	coarse subang POSITS)		ightly gravelly inded of various		SUPD	
.00	(C)	Sw,Sw,Sw Sw,1,0					81.24	(0.75) - 1.20								GMG	
.60	ES							-	MAE	DE GROUND: 5 - 1.20 m bgl r	Dark brown	mottled black		_			
.10	ES						81.99	(0.40)	Subr	rounded GRA\ DE GROUND:	/EL of aspha	ilt. andv GRAVEL	Gravel is fine	to coarse		GMG	
Depth	Туре	Result	Old (ppmV)	HSV (kN/m2)	P.Pe (kN/m	Water	(mAOD)	-ness)	MAG	DE CROLIND:		Description	ne and medium	n very angular to	Legend	Geology GMG	
		Test	≥	> &	ا تر زک	ē	Elev.	Depth	וי								D

# Hole No. **WINDOW SAMPLE LOG** WS142 Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 30-06-14 70004430 Harrow Estates Plc 30-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389827.320 N 381259.670 **Premier Tracker Compact** Dynamic Sampling Ltd S McGeever 82.590

SA	MPLE	S & TE						I B #.				STRAT	A				Ins Ba
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	D 5 m
							82.54 82.39	0.05	MAE asph		Dark grey mo	ottled black fine	e and medium	GRAVEL of		GMG GMG	
							02.00	_(0.35)	MAE	E GROUND:	Light greyish	brown gravelly edominantly sa	/ SAND. Grav	rel is fine to BBASE).		GMG	
							82.04	- 0.55 -	\Gra\	el is fine and	medium very	clayey gravell angular to sub	y SAND with to	frequent ash. udstone, coal			
0.80	ES							_ _(0.65)	Firm	various litholo	y gravelly san	dy CLAY with a	rootlets. Grave	el is fine and		SUPD	
.00	(C)	1,2,1 2,1,3					81.39	- 1.20	litho	logies. (SUPE	RFICIAL DE	POSITS)					
		N=7.						- - -	angı orga	and stiff redd ular well round inic or sulphur - 1.50 m bgl;	led of various ous odour	• •	ravel is fine ai LACIAL DEPO	nd medium OSITS) - slightly			
								-									
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.						-									
		N-21.						-									
								-									
							78.69	3.90						SAND. Gravel			
1.00	(S)	3,4,4 5,7,8 N=24.				<u>‡</u>		-	is tin	ie subangular	to rounded of	r various litholo	gies. (GLACI/	AL DEPOSITS)			
								(1.10)								GDU	
l.70	ES							-									
5.00		4,4,4					77.59	5.00	Wine	dowless samp	le hole comp	lete at 5.00m b	ogl.				
	(S)	3,4,2 N=13.						-									
								-									
								-									
	Hole	Diameter	<u></u>					Recov	/ery				Water	Strikes			<u></u>
Depth	Dian	neter (mm)	R	emark	S	Core 1	Top (m)	Core Bas	e (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
													4.20				
											SLightly orga No radiologic Groundwater Windowless	sample hole com inic or sulphurous al readings above encountered at	s odour 0.55-1.2 e background r 4.2m bgl.	2m bgl.	one from 1	.0 to 5.0r	n
Scal	e 1:37	.5		es: All				etres. Lo	gs sh	ould be read i	bgl. n accordance	with the provi	ded Key. Des	criptions are base	ed on visu	ual and	

က္က																	
Š	ŀ	Hole [	Diameter					Recov	ery				Water	Strikes			
ORD	Depth	Diame	eter (mm)	Remark	ks	Core 7	op (m)	Core Base	e (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Cas	sing
WOODE													4.20				
E LOG																	
WINDOW SAMPLE											SLightly organ No radiologica Groundwater	narks sample hole cominic or sulphurous al readings abovencountered at a	s odour 0.55-1.2 e background re 4.2m bgl.	m bgl. ecorded.	e zone from 1.	0 to 5.0m	1

#### Hole No. **WINDOW SAMPLE LOG** WS143 Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Client Date 03-07-14 70004430 Harrow Estates Plc 03-07-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389730.140 **Premier Tracker Compact** Dynamic Sampling Ltd J Watson N 381410.720 82.410

												Inntall /
SA	MPLE	ES & TE	STS						STRATA			Install / Backfill
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)	Description	Legend	Geology	Dia. 50 mm
							82.36	0.05/	MADE GROUND: ASPHALT	0 4 4 6	TARMAC	SOR:
-							82.22 82.16	0.19	MADE GORUND: CONCRETE		CONC GMG	
+							82.01	0.40	MADE GROUND: Reddish brown sandy fine to coarse angular GRAVEL of		GMG	(650)
0.40-0.50	ES								broken brick.	$\langle \rangle \rangle$	GMG	
-							81.81	0.60	MADE GROUND: Firm brown sandy CLAY.	$\langle \times \rangle$		
+							81.71	0.70	MADE GROUND: Dark brown silty clayey fine SAND.		GMG	
ţ				30				Ė l	MADE GROUND: Brown slightly clayey medium SAND.	$\bowtie$		
L	_			40				(0.50)	MADE GROUND: Soft brown mottled grey sandy CLAY.	$\bowtie$	CMG	(65×16
1.00-1.45	D (S)	1,1,1 0,1,1				١,	81.21	1.20				
<u> </u>	(0)	N=3.				$\blacksquare$	01.21	1.20	Loose reddish brown clayey fine and medium SAND. (GLACIAL			
[						=			DEPOSITS)		1	
-								-		- · · · ·	-	
<u> </u>								-				
[								(1.10)			GDU	
+								-		F		
2.00-2.45	D	1,2,1						-				200
	(S)	2,2,1						Ī		<u> </u>		
-		N=6.					80.11	2.30		<u> </u>		
<b>†</b>								-	Firm low and medium strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium angular to rounded. of various lithologies.			
[				44 30					(GLACIAL DEPOSITS)			
:-				30				-				
<u></u>								- _(1.15)			GDU	
				34				_(1.13)			ODO	
3.00-3.45	D (S)	1,1,3 4,4,5						-				
<u>{</u>	(3)	N=16.						-				
:[							78.96	- 3.45				
<u> </u>								-	Window sample terminated at 3.45m bgl			W X JJW
t								_	· · · · · · · · · · · · · · · · · · ·			
:[												
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Š <del>–</del>	Llola	Diameter						Dogs	Woter Chillian		<u> </u>	
II.	Hole	Diameter	I					Recov	very Water Strikes			

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1.03.GDT 11/12/14 Hole Diameter Recovery Water Strikes Diameter (mm) % Recovery Depth Remarks Core Top (m) Core Base (m) 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

# Hole No. **WINDOW SAMPLE LOG WS144** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 30-06-14 70004430 Harrow Estates Plc 30-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389661.190 N 381327.200 **Premier Tracker Compact** Dynamic Sampling Ltd 82.040 S McGeever

MPLE	S & TE	STS	_	_			Donth	1			STRAT	A				Insta Bac
Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	(Thick			C	escription			Legend	Geology	Di 5 m
						04.70	-		DE GROUND:	ASPHALT.				XX	GMG	
D (C)	6,10,8 7,7,6 N=28.	0					- - - - -(1.25)	MAI fine							GMG	
(C)	2,2,1 1,1,2 N=5.	0				00.04	- - - - - - - - - - - - - - - - - - -	MAE cobb	oles. Gravel is	fine to mediu	ım subangular	to subrounde	d of		GMG	-
ES						79.44	2.60	MAE	DE GROUND: to coarse sub	Brown mottle angular to rou	ed black very g unded of brick	ravelly sandy and various lit	CLAY. Gravel is hologies.		GMG	=
(C)	2,1,1 0,3,4				<u>*</u>	78.94	3.10		very low and	low strength i	eddish brown	sandy CLAY.	(GLACIAL			
ES	N=8.		20			78 30	_(0.55) - - 3.65		POSÍTS)						GDU	
D (C)	1,1,2 2,4,4 N=12.							Med (GL			tled black fine	and medium (	SAND.		GDU	
(C)	1,2,1 2,4,5 N=12.		130				(0.50)	Stiff and DEF	medium suba POSITS)	ngular to weli	rounded of va	rious lithologi			GDU	
Hole	Diameter						Reco	verv				Water	Strikes			<u>_</u>
_		_	emark	s	Core :	Top (m)			% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
										Windowless Slight hydrod No radiologic	sample hole con arbon odour end	ountered at 2.6 e background r	0m bgl.			
	D (C) (C) ES (C) ES (C) (C)	Type Test Result  D 6,10,8 7,7,6 N=28.  (C) 2,2,1 1,1,2 N=5.  ES .  (C) 0,3,4 N=8. ES .  D 1,1,2 2,4,4 N=12.  (C) 1,2,1 2,4,5 N=12.	C) 6,10,8 7,7,6 N=28.  (C) 2,2,1 1,1,2 N=5.  ES	Type	Type Result Q (\frac{1}{\lambda}\) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Type   Test Result   G   G   G   G   G   G   G   G   G	Type	Type Result	Type   Test   Q   Q   Q   Q   Q   Q   Q   Q   Q	Type   Test   Result   2	Type	Type Test Result Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Type Test Result Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Type Test Result 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Type Result   Co   Co   Co   Co   Co   Co   Co   C	Test   Result   Res

9	ŀ	Hole Diameter			Recovery				Water	Strikes		
ORD	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
LOG WOODF									3.10			
WINDOW SAMPLE							Slight hydroca No radiologica Groundwater	harks cample hole com arbon odour enc al readings abov encountered at upon completio	ountered at 2.60 e background re 3.1m bgl.	om bgl. ecorded.	.0m bgl.	

#### Hole No. **WINDOW SAMPLE LOG WS145** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 27-06-14 70004430 Harrow Estates Plc 27-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389688.380 **Premier Tracker Compact** 81.970 Dynamic Sampling Ltd S McGeever N 381303.740

SA	MPLE	S & TE	STS									STRAT	·A				Insta Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				Г	Description			Legend	Geology	Dia 50 mr
0.30	ES		0				81.92 81.77 81.52	0.20	MAI	DE GROUND: Iominantly lime	Light grey m estone	/EL of asphalt. edium very and	gular GRAVEI	/		TARMAC GMG GMG	
- 1.00	(S)	0,1,1 0,1,1		56		1	80.77	(0.75)	And coal MAI Grav vario	medium very : DE GROUND:	angular to su Firm dark gr parse very an	bangular of pro eyish brown sli	edominantly beginning	urnt shale and		CMG	
	(0)	N=3.		25		<u></u>	00.77		Soft matt	greyish browr ter. Gravel is fi logies. (SUPE	ine and medi	dy gravelly CLA um subangula POSITS)	AY with occasi r to rounded o	onal organic f various	\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_		
2.00	D (S)	1,1,1 1,1,1 N=4.						-							\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_		
- 3.00	D (C)	Sw,1,1 1,1,1		26				(2.70) - - - - -								SUPD	
3.40	ES	N=4.	0	10						5 m bgl; organi 5 m bgl; wood						_	
- 4.00	(C)	2,2,1 0,1,3 N=5.				<b>⊉</b>	78.07	-(0.57)	Loos	se brown sligh	tly gravelly co	oarse SAND. ( arious litholog			0	SUPD	
				20			77.50 76.97	(0.53)				brownish grey patter. (SUPER		gravelly CLAY SITS)	\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_	SUPD	
5.00	(C)	2,3,4 5,6,7 N=22.					70.37		5.00	5.0m bgl; Wii	ndowless sar	nple hole com	olete at 5.00m	bgl			<u> </u>
	Hole	Diameter						Reco	very				Water	Strikes			
Depth	_	neter (mm)	_	emark	s	Core <sup>-</sup>	Гор (т)			% Recovery	Date	Time	Strike 1.20 3.90		Standing	Ca	sing
											No visual or No radiologion Damp at 2.1	sample hole con olfactory evidence al readings reco m, wet at 3.9m b	ce of contaminat orded above bac gl.	ion observed.	1.50 to 5.	00m bgl.	
Scal	e 1:37	.5				ensio		etres. Lo	ogs sh	nould be read i	n accordance	e with the prov	ided Key. Des	criptions are base	d on visu	ual and	

# Hole No. **WINDOW SAMPLE LOG WS146** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 30-06-14 70004430 Harrow Estates Plc 30-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389724.130 N 381303.430 Premier Tracker Compact S McGeever 82.180 Dynamic Sampling Ltd

110

SAN	1PLE	S & TES	STS									STRAT		<u> </u>			Inst
Depth -	Гуре	Test	Ð. V	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev.	Depth				escription			Legend	Geology	Bac Dia 50
2004.	,,,,,	Result	<u> </u>	ΞÃ	<u>- X</u>	Š	(mAOD)	-ness)							Logona		m
0.20	ES						82.08	- - -(0.60) -	MAE GRA brick	AVEL of predo	Black sandy		um angular to with occasiona			TARMAC GMG	
1.00	D (C)	1,1,1 0,1,2 N=4.				•	81.48 80.78	(0.70) 	MAE with	occasional or	ganic matter.		d black slightly	ŕ		CMG	
							80.28		to w	vn slightly grav ell rounded of	velly coarse S various lithol	SAND. Gravel ogies. (SUPER	is fine to coars RFICIAL DEPO	e subrounded OSITS)	0	SUPD	
2.00	D (S)	1,1,0 1,1,0 N=2.					79.88	 -(0.40) 2.30	subr DEP	ounded to wel	I rounded of	various litholog	gies. (SUPERI		× ×	SUPD	
						<b>↓</b>	79.18	- _(0.70) - 3.00	matt	er. (SUPERFI			silty CLAY with	i organic	* X X X X X X X X X X X X X X X X X X X	SUPD	S2555
3.20	(C) ES	Sw,1,0 0,1,0 N=1.				₹ :	78.73	(0.45)	Loos GRA lithol	AVEL. Gravel i logies. (SUPE	s fine and me RFICIAL DEI	edium subroun POSITS)		unded of various	000	SUPD	5555
4.00	D (C)	2,2,3 2,4,5 N=14.						- - - - - - - (1.55)	med	ium dense bro ium subanguli ACIAL DEPOS	ar to well rou	avelly sandy (	CLAY. Gravel i	s tine and ithologies.		GDU	
5.00	(C)	2,4,5 6,6,6 N=23.					77.18	5.00	Wind	dowless samp	le hole comp	lete at 5.0m b	gl.				
	Hole I	Diameter						- - - - - - Reco	very				Water	Strikes			
Depth	Diam	eter (mm)	R	emark	s (	Core T	op (m)	Core Bas		% Recovery	Date	Time	Strike		Standing	Ca	asing
											No olfactory No radiologic Groundwater	pple complete at evidence of hydrological al readings above encountered at	rocarbon contam ve background ro 3.0m bgl.	nination observed.			
Scale	1:37.	5		es: Al				etres. Lo	ogs sh	ould be read i	Hole backfille	ed upon complet	ion.	criptions are base	ed on visu	ıal and	

3		Hole Diameter			Recovery				Water	Strikes		
욁	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
핅									3.00			
31												
≥												
ĭΙ												
Щ												
١							General Rem					
Š								ple complete at	5.00m bgl. ocarbon contam	ination observe	4	
§									e background re		u.	
$\geq$								encountered at				
۶							Hole backfille	d upon completi	on.			
ה			Notoo: All dir	monoiono in m	otron Logo ob	ould be read	in accordance	with the provi	dod Koy Door	orintiana ara h	anad an vieua	Lond

# Hole No. **WINDOW SAMPLE LOG WS147** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 27-06-14 70004430 Harrow Estates Plc 27-06-14 Co-Ordinates (NGR) Logged By Contractor / Driller Method/Plant Used Ground Level (m AOD) E 389562.640 N 381465.600 **Premier Tracker Compact** Dynamic Sampling Ltd S McGeever 86.560

SAI	MPLE	S & TE	STS									STRAT	A				Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Di 5 m
							00.44	-ness)	MAC	DE GROUND:	ASPHALT.					TARMAC	250
							86.41 86.26	0.15				gravelly SANI	D with frequer	nt ash. Gravel is	$\Diamond \Diamond$	GMG	
).25	ES		0				86.16		fine	and medium a	angular to sub	rounded of val	rious lithologie	es.	$\not\longleftrightarrow$	GMG	Ø
								[ ]			<u> </u>	bble of sandsto			1		饺
								- 1	Loos	se orange fine	SAND. (GLA	CIAL DEPOSI	IS)				
								-(0.80)								GDU	8
								ĿI									8
.00	(C)	2,2,2 2,2,3					85.36	1.20									
	(0)	N=9.					00.00	1.20	Loos	se light whitish	orange med	um SAND. (G	LACIAL DEPO	OSITS)			
								-									
																	<b>X</b>
								-									2
								-(1.20)								GDU	Ž
2.00	D	1,2,2						-									D.
	(C)	2,2,2 N=8.						[									NO.
		IN-O.					84.16	2.40									
								F	Loos	se brownish g	ey medium a	nd coarse SAN	ND. (GLACIAL	DEPOSITS)			8
								<u> </u>									
								(0.90)								GDU	1
						1		_(0.90)								GDU	S S
3.00	D (C)	1,2,1 2,2,2				Ţ		-									
		N=7.					83.26	3.30									
3.20	ES	•	0					-	Med	ium dense red OSITS). Blow	dish brown n	nedium and co	arse SAND. (	GLACIAL			
									DLI	OOITO). DIOW	ing condition.	o.					
								-									
								Γ Ι									2
1.00	D	5,6,6						- 1									TO TO
	(C)	4,5,11 N=26.						(1.70)								GDU	No.
		20.															N.
1.50		9,11,13						-									Ø
1.50	(C)	12,12,12															
		N=49.						-									
							81.56	5.00									
								-	5.00	Windowless	sample hole o	complete at 5.0	00m bgl.				
								[									
								t l									
								-									
								ţ									
								-									
Depth	_	Diameter	т —	emark		Coro 3	Fon (m)	Recov Core Bas		% Recovery	Date	Time	Water Strike	Strikes Minutes	Standing	0.0	noin.
ьеріп	Dian	neter (mm)	K	cmdrk	.s   1	core l	Гор (т)	OUIE BAS	e (III)	70 Necovery	Date	rime	3.10	iviiriules	otanuing	Ca	asing
											Consest	norke					
											No visual or on No radiologic Groundwater	sample hole com olfactory evidence al readings reco encountered at	e of contaminated above bac approximately 3	ion observed. kground.			
		.5	Not	20: AI	l dim	oncio	no in m	otroo Lo		ould be reed i		· · · · · · · · · · · · · · · · · · ·		criptions are base	nd on viou	ıal and	

		Hole Diameter			Recovery				Water	Strikes		<u>'</u>
ORD	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
WOODF									3.10			
LE LOG												
SP WINDOW SAMPLE							No visual or o No radiologica Groundwater	sample hole com lfactory evidence al readings reco encountered at	nplete at 5.00m l be of contaminati rded above back approximately 3 ble hole due to b	ion observed. kground.	s.	
Ŕ	0 1 -	4.07.5	Notes: All dir	mensions in m	netres Logs sh	ould be read	in accordance	with the provi	ded Key Desi	crintions are b	ased on visua	al and

#### Hole No. **WINDOW SAMPLE LOG WS148** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 27-06-14 70004430 Harrow Estates Plc 27-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389508.660 **Premier Tracker Compact** 87.040 Dynamic Sampling Ltd S McGeever N 381512.410

SAI	MPLE	S & TE	_					Danth				STRAT	Ā		1	I	Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Γ	Description			Legend	Geology	Di 5 m
							86.84	L '	MAE	DE GROUND:	ASPHALT.					TARMAC	
							86.54	(0.30)				andy fine to comminantly limes		ular to		GMG	
						<u>1</u>	86.44		MAI	DE GROUND:	Dark brown	slightly gravell unded of vario	y sandy CLAY	. Gravel is fine		CMG	ı
).80			0			<del>-</del>		-				AND. (GLACIA		)			
.00		1,1,1						(0.70)								GDU	
.00	(C)	1,1,1 1,1,1 N=4.					85.74	1.30									
40	FC						00.74	- 1.50	Soft	reddish brown	slightly san	dy slightly grav	elly CLAY. Gr	avel is fine and	<u></u>		
.40 .50	ES		0					-		ium subangula POSITS)	ar to well rou	nded of variou	s lithologies. (	GLACIAL			
								-									
								- <del>(</del> 1.40)								GDU	
2.00	D (S)	1,1,1 3,3,4						(1.10)								ODO	
		N=11.						_									
								-									
							84.34	2.70	Med	ium dense ligt	nt orangish re	eddish brown r	medium and co	parse SAND	-		
								-		ACIAL DEPOS							
.00	D (C)	4,6,6 7,7,11	0					-									
	(0)	N=31.						(1.15)								GDU	
								-									
								-									
							83.19	- 3.85 -	Med	ium dense vel	lowish areen	ish brown mot	tled dark red a	and black slightly			
1.00	D	3,4,4						_		ey SAND. (GL							
1.20	(C) ES	3,3,3 N=13.						-(0.70)								GDU	
1.20	ES	•					82.49	- - 4.55									
							02.10	-		ium dense wh	itish reddish	brown fine and	d medium SAN	ND. (GLACIAL			
								-(0.45)	DEF	-03113)						GDU	
5.00		3,4,5					82.04	5.00	5.00	5.0m bgl; Wir	ndowless sar	nple hole com	plete at 5.00m	bgl.			
	(C)	5,5,6 N=21.								0,				•			
								_									
	Hole	Diameter	r		T	<u> </u>		Recov	very				Water	Strikes			
Depth	Diam	neter (mm)	R	emark	s	Core <sup>-</sup>	Гор (m)			% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
													0.70				
											No visual or No radiologic	sample hole cor olfactory eviden cal readings abo	ce of contamina ve background i	tion observed.	n approxim	nately 0.60	0m
			1		- 1									rom 1.0 to 5.0m bg			

#### Hole No. **WINDOW SAMPLE LOG WS149** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 30-06-14 70004430 Harrow Estates Plc 30-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389778.530 N 381337.140 **Premier Tracker Compact** 82.390 Dynamic Sampling Ltd S McGeever

3,3,3,0) 2,6	3,2 ,6,4 =14.	(Audd) 0	HSV (KN/m2)	P.Pen (KN/m2)	Water	Elev. (mAOD) 82.14 81.99	-ness) - 0.25 - 0.40 - 0.65	MAD asph Soft		CONCRETE	dium dark grey	v mottled black	GRAVEL of	Legend	Geology CONC GMG	Dia 50 mm
) 2,6 N=	,3,2 ,6,4	0				81.99	- 0.25 - 0.40 - 0.65	MAD asph Soft	DE GROUND: nalt to firm dark br	Fine and med	dium dark grey	mottled black	GRAVEL of			2020
) 2,6 N=	,6,4					81.99	- 0.40 - 0.65	asph Soft	alt to firm dark br			mottled black	GRAVEL of			
) 2,6 N=	,6,4						- 0.65	asph Soft	alt to firm dark br			mottica biaci	COLOTALEO	$\Leftrightarrow$	GIVIG	<u> </u>
) 2,6 N=	,6,4					81.74	0.00			rown slightly s			/	F	ODLI	W
) 2,6 N=	,6,4	1					- - -	Medi	ium dense bro					× -×	GDU	<b>X</b>
6		1					-			ownish orange	e very siity SAr	ND. (GLACIAL	DEPOSITS)	× · · · · · · · · · · · · · · · · · · ·		STATE OF STA
3,4	,4,3				1		(1.55) - - - - -	1.40	- 1.60 m bgl;	Slight hydrod	arbon odour a	t 1.4m to 1.6n	1.	× × × × × × × × × × × × × × × × × × ×	GDU	
) 4,4	,4,5				<u></u>	80.19		Medi	ium dense ligh	nt reddish bro	wn medium S <i>i</i>	AND. (GLACIA	AL DEPOSITS)			
4,6	,6,7						- - - - -(2.80)								GDU	
5,6	,6,6						- - - - - - - -									
) 3,4	,4,5					77.39		Wind	dowless samp	ole hole compl	ete at 5.0m bç	<b>j</b> l.				
ole Diar	meter			<u> </u>			Recov	ery				Water	Strikes			<u></u>
iameter	r (mm)	Re	emark	s (	Core 7	Top (m)	Core Base	e (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
										Window Sam Olfactory evid No radiologic Groundwater	ple complete at dence of hydroca al readings abov seepage at 2.2r	5.00m bgl. arbon contamina re background n n bgl.	tion observed at 1.4 ecorded.	4m to 1.6m	l.	
_ (i)	3 3 4 N N S 5 N S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S S S N N S N S N N S S N N S N S N N S S N N S N S N N S N S N N S N S N N S N S N N S N S N N S N S N N S N S N N S N S N N S N S N N S N S N N S N S N N S N N S N N S N S N N S N S N N S N S N N S N N S N S N N S N S N N S N S N N S N N S N S N N S N N S N S N N N S N N S N N S N N S N N S N N S N N S N N S N N S N N S N N S N N N S N N N S N N N S N N N S N N N S N N N S N N N S N N N S N N N S N N N S N N N S N N N N S N N N N S N N N N S N N N N N N S N	3,2,5 4,6,7 N=22.	3.2.5 4.6.7 N=22. 3.4.5 5.6.6 N=22. 3.3.4 3.4.5 N=16.	3,4,5 5,6,6 N=22.   3,4,5 5,6,6 N=22.   3,4,5 5,6,6 N=16.	3.2.5 4.6.7 N=22. 3.4.5 5.6.6 N=22. 3.3.4 3.4.5 N=16. le Diameter ameter (mm) Remarks	3,4,5 3,4,5 5,6,6 N=22.    Semantic   Sem	3,2,5 4,6,7 N=22.  3,4,5 5,6,6 N=22.  77.39  18. Diameter  ameter (mm) Remarks Core Top (m)	4,4,5	3.2.5 4.6.7 N=22.  3.3.4.5 5.6.6 N=22.  1.	4,4,5	4.4.5 N=16.    Solid   Solid	80.19 2.20  Medium dense light reddish brown medium Solution (2.80)  3.2.5 4.6.7 N=22.  77.39 5.00  Windowless sample hole complete at 5.0m bg  78.5 N=18.  Recovery  Recovery  Remarks  Core Top (m) Core Base (m) % Recovery  Date Time  General Remarks  Window Sample complete at Oifactory evidence of hydroca No radiological readings of Core No radiological readin	Solution   Solution	3.2.5 N=16.  3.2.5 A, 6.7 N=22  3.3.4 3.4.5 N=16.    Part	Solid   Soli	Section   Sect

<b>WSP</b>	WINI	DOW SAMPLE	LOG	Hole	WS150
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome		Shee	et 1 of 1
Job No 70004430	Client	Harrow Estates Plc		Date	30-06-14 30-06-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)	(	Ground Level (m AOD)
Dynamic Sampling Ltd	Premier Tracker Compact 110	S Weston	E 389594.760 N 382472.200		91.970

SAI	MPLE	S & TE	STS									STRAT	Α				Ins Bad
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	D
							01 77		MAE	DE GROUND:	Grass over b	rown SILT with	n many rootle	ts. (TOPSOIL)		CMG	
							91.77 91.72	0.25	(MA	DE GROUND	) Stiff brown (	CLAY			<del>- XXXX</del>	MG	×
							91.61	0.36	Gras	ss over brown	slightly claye	y SILT with ab	undant rootlet	s. (POSSIBLE		GDU	2
).50	ES			86						ICT TOPSOIL		al. ali alath. ailt.	aliadath casas	II ala itha	/	0.511	2
								(0.54)	rootl	to stiff brown lets. Occasion	speckied bia al grey mottlii	ck slightly slity ng in places ar	sligntly grave nd rare sandy	partings.		GDU	22
							91.07	0.90	(GL/	ACIAL DEPOS	SITS)						Įģ.
.00	ES	2,2,3						-	Stiff	medium stren k smearing. (C	gth brown CL	AY with rare li	ght grey mott	ling and rare			Ø
.00	(S)	2,3,3		66					Diac	ik sineaning. (C	DEAGIAE DEI	00110)			<u> </u>		Ø
		N=11.		76				-									檢
				'				[									
				96				t l	1.50	) m bgl; becom	iing stiπ nign	strengtn			F		
				102				(1.70)								GDU	
								Ł I									
2.00	(S)	2,3,3 4,5,4		114				-							+=		
	(-)	N=16.		108				ļ							<u> </u>		X
				114				-							F		K
				62			89.37	2.60	NA - 1	Bross alam - P. C.	-4 laura	Ene CAND (C	LACIAL DED	OCITO)	+		K
								<u> </u>	ivied	lium dense ligh	it drown silty	iine SAND. (G	LACIAL DEP	USI15)	× . × .		
								-							×		
.00		3,4,4													×		12
	(S)	5,5,6 N=20.													× .		E S
								-(1.40)							×	GDU	Ž
								-							×		TO TO
								-							` . ` .× .		
															×		No.
1.00		4,4,5					87.97	4.00	4.00	) Windowless s	sample comp	lete at 1m hal			<del> </del>		R
	(S)	5,6,6 N=22.							7.00	, willidowiess .	sample comp	iete at <del>-i</del> iii bgi					
		14-22.						-									
								-									
								-									
								-									
								<u> </u>									
								-									
								-									
								-									
								-									
					_												
Dorth	_	Diameter neter (mm)	_	emark	+	Coro 7	Fon (m)	Recov Core Bas		% Recovery	Date	Time		Strikes	Standing		001-
Depth	Dian	icici (IIIII)	,	orridi K	9	JUIE	Top (m)	OUIE DAS	)c (III)	70 NECOVERY	Date	Time	Strike	Minutes	Standing		asin
																$\perp$	
											General Rer		nolate at 4.0== !	al Noviews 'f	notoni	noo -f	
											contaminatio	n observed. No i	adiological read	ogl. No visual or olf dings above backg	round recor	ded.	
			1								Groundwater	not encountered	<ol> <li>Hole backfille</li> </ol>	d upon completion	. NOTE: W	S153 NC	JΤ
											COMPLETE	)					
														criptions are bas			

#### Hole No. **WINDOW SAMPLE LOG WS151** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 30-06-14 70004430 Harrow Estates Plc 30-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389535.000 **Premier Tracker Compact** Dynamic Sampling Ltd 88.530 S Weston N 382420.560

SA	MPLE	S & TE	STS									STRAT	A				Ins Bad
Depth	Туре	Test Result	PID (bpmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)				escription			Legend	Geology	Di 5 m
							88.33 88.18	0.20	rootl	lets. Rare sub	rounded fine	orown slightly c gravel (TOPSC slightly sandy C	DIĽ)			CMG	
0.50	ES			82			00.10	(0.35)	and	rare sandy po	ckets (<20mi				-/ <b>***</b>	CMG	ı
				02		<u></u>	87.83	-		DE GROUND:	Pinkish grey	very sandy an	gular fine to c	oarse GRAVEL		040	I
1.00	(S)	0,0,0 0,1,0		20		÷	87.43				Soft low stre	ngth brown mo	ottled grey CL	AY with rare		GMG	
		N=1.		30 16			87.13	_(0.30) 1.40	angı	ular fine grave	l.	anic CLAY. (SI				CMG	-
.50	ES			36 26				(0.60)		3	3 3 3	(1)		,	<u> </u>	SUPD	
2.00		1,1,1					86.53	2.00	Loos	se light brown	silty fine SAN	ID. (GLACIAL	DEPOSITS)		/ <sub>7</sub>		
2.10	(S) ES	1,1,1 N=4.					86.13	-(0.40) 2.40	2000	so light brown	only mile of a	ib. (OE) toll te	<i>DE</i> 1 00110)		×	GDU	
				21 32				(0.43)	Soft	locally firm lov	w strength bro	own CLAY. (GI	LACIAL DEPO	OSITS)		GDU	
							85.70	_ 2.83 -	Med	ium dense ligl	nt brown fine	SAND. (GLAC	CIAL DEPOSIT	ΓS)			
3.00	(S)	2,3,3 3,3,4 N=13.						(0.82)								GDU	
							84.88	- - - 3.65									
								- - -	Med	lium dense ligl	nt brown fine	and medium S	SAND. (GLAC	IAL DEPOSITS	)		
1.00	(S)	3,3,4 4,3,4 N=15.						(0.80)								GDU	
							84.08	- 4.45 - -	Win	dowless samp	le complete a	at 4.45m bgl					
								- - -									
								- - -									
								- - -									
								- - -									
	Hole	Diameter						Recov	very				Water	Strikes			
Depth	Dian	neter (mm)	R	emark	s	Core -	Top (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike 0.90	Minutes	Standing	Ca	asing
											Onnered D						
											contaminatio	sample hole con n observed. No i encountered at	radiological read	bgl. No visual or odings above back installed upon cor	ground recor	ded.	one
	e 1:37		Note	es: Al	l dim	ensic	ne in me	atrae I o	vac ob	ould be reed i			ided Key Dee	criptions are ba	and an view	ıal and	

ıδ																		
S C		Hole	Diameter	-					Reco	very				Water	Strikes			
240	Depth	Dian	neter (mm)		Remark	(S	Core	Top (m)	Core Ba	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
WOODFO														0.90				
LE LOG																		
INDOW SAMP												contamination	sample hole com n observed. No r encountered at	adiological read	ings above back	ground record	led.	one

<b>WSP</b>		WINE	OOW SAMPLE	LOG	Hol	e No. <b>WS152</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 30-06-14 30-06-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	S Weston	E 389467.210 N 382186.550		87.060

SA	MPLE	S & TE	STS								STRAT	A				Install / Backfill
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)		D	escription			Legend	Geology	Dia. 50 mm
							86.86		MADE GROUND: G rootlets. (TOPSOIL)	rass over b	rown slightly s	andy CLAY w	ith many		CMG	
							86.71	- 0.35	MADE GROUND: Bi		y sandy slightly	y gravelly CLA	AY. Gravel is	$\gg$	GMG	
0.50	ES						86.16	(0.55)	MADE GROUND: Si medium to coarse lin	iff brown sli	ghtly gravelly d subrounded	CLAY. Grave fine various li	l is angular thologies.		MG	
1.00	ES (S)	1,1,1 1,1,1 N=4.		82 74				-	Stiff medium to high gravelly CLAY. (GLA	strength br CIAL DEP	own mottled gr OSITS)	rey slightly sa	ndy slightly			
-				98 114				(1.70)							GDU	
_2.00	(S)	2,3,3 4,4,4 N=15.		122 70			84.46	2.60								
								-	Loose orange brown DEPOSITS)	slightly gra	velly fine and	medium SAN	D. (GLACIAL			
3.00	(S)	1,1,1 1,2,2 N=6.					83.06	-(1.40) - -(1.40) - - - - - 4.00	3.00 - 4.00 No Reco	very					GDU	
-							83.00		4.00 Window sample	e complete	at 4.0m bgl					
<u> </u>	<u> </u>	D			<u></u>			<u> </u>	Т							
Donth		Diameter	_	omorl	-	Coro -	Top (m)	Recov		Data	Timo	Water	Strikes	Standing		oina

Hole Diameter

Depth

Diameter (mm)

Remarks

Core Top (m)

Core Base (m)

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 encountered at 3.0m bgl. Hole installed upon completion. Response zone 1.0 to 3.0m bgl.

08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION.GPJ WSPETEMPLATE1.03.GDT 11/12/14

<b>WSP</b>	WINI	DOW SAMPLE	LOG	Hole	WS154
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome		She	et 1 of 1
Job No 70004430	Client	Harrow Estates Plc		Dat	e 27-06-14 27-06-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Premier Tracker Compact 110	J Kinchington	E 389691.010 N 382276.050		87.210

SA	MPLE	S & TE										STRAT	·A				Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			[	Description			Legend	Geology	Di 50 mi
0.20	ES		0				86.81	(0.40)	Gras med	ss over brown lium subangul	gravelly fine ar to rounded	SAND with roo l of various lith	otlets. Gravel i ologies. (TOP	s fine and SOIL)	1/2 1/2 1/2 1/2 2/1/2 1/2	TS	
0.60	ES		0				00.01	-	Med DEF	ium dense ora POSITS)	ange and ligh	t brown fine ar	nd medium SA	ND. (GLACIAL			
1.00		3,3,4						- -									
.00	(S)	4,5,5 N=18.						-								0.511	
								_(2.10) - -								GDU	
2.00	D (S)	4,4,4 4,3,4						-		m bgl; becom		rown					
	(3)	N=15.					84.71	2.50									
							84.51				•	Y. (GLACIAL D				GDU	
							84.41	2.80	$\overline{}$			SAND. (GLAC		,	×	GDU	
3.00	D (S)	1,1,1 2,1,1 N=5.						- - -		POSITS)	n drown siign	tly silty slightly	sandy CLAY.	(GLACIAL	×		
		14 0.				<b>±</b>		- -(1.20)							× × ×	GDU	
							83.21	4.00		m bgl; becom					× ×		
-	D (S)	2.2.2 3.3,4 N=12.								dow Sample o	ompiete at <del>-</del>	om og.					
	Hole	Diameter	<u> </u>					Recov	very				Water	Strikes			
Depth	Dian	neter (mm)	R	emark	s	Core 7	Гор (т)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
											contamination	sample hole con n observed. No	radiological read	bgl. No visual or dings above back pletion. Respons	ground recor	ded. Sligh	ntly
Scal	e 1:37	.5		es: Al				etres. Lo	ogs sh	nould be read i	,			criptions are ba			

<b>WSP</b>	WIN	DOW SAMPLE	LOG	Hole	• No. <b>WS155</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome	3	She	et 1 of 1
Job No 70004430	Client	Harrow Estates Plc		Dat	e 27-06-14 27-06-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Premier Tracker Compact 110	J Kinchington	E 389723.890 N 382426.770		88.860

SA	MPLE	S & TE			_	}		Depth				STRAT	A				Ins Ba
Depth	Туре	Test Result	(Vmqq)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				Г	Description			Legend	Geology	n
							88.66	0.20				rown gravelly to subrounde			XX	GMG	
0.20	ES						88.46	0.40	\(TOI	PSOIL).	· ·			/		GMG	
0.40	ES						00.40	_	\MAE \angı	DE GROUND: ular to subrour	Light grey fir nded GRAVE	ne to coarse SA L of various lit	AND and fine hologies.	to coarse		GMG	ı
0.70						-	88.16	_(0.30) 0.70	MAE of as		Black fine ar	nd medium ano	gular and suba	angular GRAVEL		GIVIG	
J.70	ES							- -			own fine and	medium SANE	). (GLACIAL [	DEPOSITS)			
1.00	(6)	3,4,4						 -(0.80)								GDU	
	(S)	5,5,6 N=20.						-` ´  -									
							87.36	1.50									
								-	Med	ium dense bro	own silty fine	SAND (GLACI	AL DEPOSIT	S)	×		
								-							×		
								- -							×		
2.00	D (S)	4,4,5 6,6,6						-							×		
		N=23.						-							×		
								-							×		
								(2.50)							×	GDU	
								_(2.50) -							×	GDO	
3.00	D	2,2,2						-	3.00	m bgl; loose					. · ×		
	(S)	1,2,2 N=7.						-							×		
								-							×		
								-							×		
								- -							×		
							84.86	4.00		m bgl; mediu					×		
4.00	(S)	3,4,4 5,6,6						-	Win	dow sample c	omplete at 4.	00m bgl.					
		N=21.						-									
								-									
								-									
								-									
								-									
								-									
								- -									
								- -									
								-									
								-									
	Hole	Diamete	r					Recov	ery				Water	Strikes			
Depth	Dian	neter (mm	) R	emarks	s C	Core T	op (m) (	Core Bas	e (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asin
											General Re						
											contamination	n observed. No	radiological read	bgl. No visual or olfa dings above backgro	und recor	ded. No	_
											groundwater	encountered. H	lole installed up	on completion. Resp	onse zone	e 1.0 to 4.	.0m.
Sca	le 1:37	.5				ensio icatio		tres. Lo	gs sh	ould be read i	in accordance	e with the provi	ided Key. Des	criptions are base	ed on visu	ual and	

<b>WSP</b>		WINE	OOW SAMPLE		Hole	e No. <b>WS156</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 27-06-14 27-06-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	J Kinchington	E 389899.160 N 382412.410		86.000

- SA	MPLE	S & TE	STS									STRAT	A				Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			C	escription			Legend	Geology	Di 5 m
0.30	ES						85.50	(0.50)	rootl	DE GROUND: lets. Gravel is logies. (TOPS	fine to coarse			ne SAND with of various		GMG	
							85.30		Dark	k brown slightly lets. Gravel is	y gravelly clay	yey SAND with	n organic matte	er including		SUPD	ı
0.80	ES						00.00	(0.30)	litho	logies.						GDU	
1.00	D	2,1,1					85.00	1.00		t grey and bro							
	(S)	1,2,1 N=5.						- - - -		riodany sort ng	nt brown sail	NY 012 (11. (01.	NOME BELLO	5116)			
2.00	D (S)	1,0,1 1,1,1 N=4.						- -(1.80) - - - -								GDU	
								-	2.50	m bgl; becom	ing brown ar	nd grey					
							83.20	2.80									
- 3.00 - 4.00	D (S)	1,1,0 1,1,1 N=3. 1,2,1 2,2,2 N=7.				<u></u>	82.00	-(1.20)		se brown fine a		,	,,			GDU	
								- - - - - - - - - - - -									
	Hole	Diameter	r					Recov	very				Water	Strikes			
Depth	Diam	neter (mm)	R	emark	S	Core 7	Гор (т)	Core Bas	se (m)	% Recovery	Date	Time	Strike 3.00	Minutes	Standing	Ca	asing
											contaminatio	sample hole cor n observed. No encountered at	radiological read	bgl. No visual or dings above backee installed upon c	ground recor	ded.	one

#### Hole No. WS157 **WINDOW SAMPLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project 1 of 1 Woodford Aerodrome Fax: Job No Client Date 27-06-14 70004430 Harrow Estates Plc 27-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 390029.450 **Premier Tracker Compact** 85.560 Dynamic Sampling Ltd J Kinchington N 382352.740

SA	MPLE	S & TE	STS									STRAT	A				Insta Back
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Dia
-							85.36	-ness) - 0.20	( Grav	DE GROUND: vel is fine to co PSOIL)	Crops over boarse angular	rown slightly g to subrounded	ravelly SAND d of various lit	with rootlets. hologies.		GMG	
- - - 0.50	F0						85.06 84.96		MAE		Light grey an us lithologies.	d brown sandy	fine to coars	e angular		GMG	
0.50	ES	•					04.90	0.00				r fine and med			<del>X                                   </del>	GIVIG	100
0.70	ES							-	Loos	se orange bro	wn slightly gra	velly fine and ded of various	medium SAN	D. Gravel is fine			<b>100</b>
- 4.00	_	4.4.4						Ē.		POSITS)	ana babiban	aca or various	maiologico. (C		0		
1.00	D (S)	1,1,1 1,2,1															院
		N=5.						-							0		REC.
						₹		-	4.50		( <b>.</b>						
								-	1.50	m bgl; gravel	becoming co	arse.			0		
								(2.30)								GDU	
_								_							0		R
2.00	D (S)	1,0,1 1,0,1						-									R
	` ′	N=3.						[							0		1
								-							0		
								-									
							82.66	2.90									
							82.56		Soft	brown sandy	CLAY. (GLAC	CIAL DEPOSIT	S)		- 0	GDU	
3.00	D (S)	1,2,1 1,1,1						-	Win	dow sample c	omplete at 3.0	)m bgl					
	Hole	Diamete			$\Box$			Recov	very				Water	Strikes			
Depth	Dian	neter (mm	R	emark	s	Core 7	Гор (т)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
											contamination	sample hole com n observed. No r	adiological read	bgl. No visual or olfi dings above backgro e backfilled upon co	ound recor	dence of ded.	
Scal	e 1:37	.5		es: Al nual ic				etres. Lo	ogs sh	nould be read	in accordance	with the provi	ded Key. Des	criptions are base	ed on visu	ual and	

# Hole No. **WINDOW SAMPLE LOG WS158** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 04-07-14 70004430 Harrow Estates Plc 04-07-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389900.850 **Premier Tracker Compact** 87.410 Dynamic Sampling Ltd S Weston N 382540.590

SA	MPLE	ES & TES				-		D e				STRAT	A				Inst Bac
Depth	Туре	Test Result	(bpmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Di 5 m
							87.21	0.20	MAE	E GROUND:	Hay over bro	wn silty clay w	ith rootlets (To	OPSOIL)		CMG	
0.20-0.50	ES						87.01	0.40	MAE	E GROUND:	Brown fine a	nd medium sa	nd with rare bi	rick fragments	XXX	GMG	ı
).50-0.90	ES						86.91	0.50		DE GROUND: medium brick		ght brown fine	sand with rare	angular fine		GMG	ı
								-(0.40)		brown CLAY		EPOSITS)			<b>~ -</b>	ALV	
							86.51	0.90	1:	4 h	- d di 0	AND (GLACIA	L DEDOCITO	<u> </u>			ı
1.00-1.45	D	2,2,1						- (2.50)	Lign	t brown tine a	na mealum S	AND (GLACIA	L DEPOSITS	)			=
	(S)	1,0,1 N=3.						_(0.50)								ALV	lF
							86.01	1.40	Firm	reddish brow	n CLAY (GLA	CIAL DEPOS	ITS)				1
						<b>↓</b>	85.71	(0.30) 1.70			02 (02	.0., .2 22. 00				ALV	
						÷		(0.30)		dish brown sli	ghtly silty fine	SAND. Becon	ning saturated	(GLACIAL	×	ALV	1
		0)4/ 0)4/ 4					85.41	2.00				ACIAL DEDO	OLTO)		××	,	
2.00-2.45	D (S)	SW,SW,1 0,0,1						-	Red	dish brown sa	indy SILT (GL	ACIAL DEPOS	SIIS)		×××		
		N=2.						_(0.50)							× ×	ALV	
							84.91	2.50	Pod	dieh brown fin	o SAND with	localised pock	ets of clay (C	I ACIAI	××		-
								- -(0.40)		OSITS)	E SAND WILL	iocaliseu pock	ets of clay. (G	ILACIAL		ALV	
							84.51	2.90									
3.00-3.45	D	SW,SW,1					84.31	_ 3.10				SAND. (GLAC		TS)		ALV	
	(S)	0,0,0 N=1.							Red	dish brown SI	LT. Very dam	p. (GLACIAL [	DEPOSITS)		× × ×		
								(0.50)							× ×	ALV	
							83.81	3.60			01.41/./01.4	0141 DED00	ITO'		<u>×</u> _×_		
							83.61	3.80			`	CIAL DEPOS				ALV	
								_	Red	dish brown fin	e occasionall	y medium SAN	ND. (GLACIAL	DEPOSITS)			
4.00-4.45	D (S)	1,2,1 2,2,2						(0.65)								ALV	
		N=7.															
							82.96	- 4.45 -	Win	dow sample c	omplete at 4.4	45m bgl					
								-									
								-									
-								-									
								-									
								_									
								-									
	Hala	Diameter						Recov	(OD:				\\/atc-	Strikes			<u> </u>
Depth	_	neter (mm)		emark	s	Core 7	Гор (m)	Core Bas		% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asin
· ·										,			1.70				
											General Rer	l narks					
											Windowless : contamination	sample hole con n observed. No i	adiological read	bgl. No visual or o lings above back installed upon co	ground recor	lence of ded.	
			Note	DC: VI	I dim	ancio	ne in ma	atros I c	nge eh	ould be read i	in accordance	with the provi	ded Key Doo	criptions are ba	sed on vice	ıal and	
Sca	le 1:37	'.5		es: Ai nual id				ues. LC	ys sn	iodia ne read l	iii accordance	with the provi	ueu ney. Des	criptions are Da	iscu on vist	uai aliu	

က္ကါ															
ĕ		Hole Di	iameter				Recove	ery				Water	Strikes		
묎	Depth	Diamet	ter (mm)	Remark	ks	Core Top (m)	Core Base	e (m) % R	Recovery	Date	Time	Strike	Minutes	Standing	Casing
3 WOODF												1.70			
E LOG															
NDOW SAMPLE										contamination	ample hole com observed. No r	adiological read	ogl. No visual or ings above back installed upon c	caround recorde	nce of ed.

#### Hole No. **WINDOW SAMPLE LOG WS159** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 04-07-14 70004430 Harrow Estates Plc 04-07-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 390096.920 **Premier Tracker Compact** Dynamic Sampling Ltd 85.940 S Weston N 382459.160 110

0.4	MOLE	-0 0 TE	0.70									OTDAT	Δ.				Ins
SA	MPLE	S & TE	_					Depth				STRAT	Α				Bad
Depth	Туре	Test Result	Old (bpmV)	HSV (kN/m2)	P.Pen (kN/m2	Water	Elev. (mAOD)	'			С	Description			Legend	Geology	m
0.00-0.30	ES						0= 0.	(0.30)	Brov	vn sandy SILT	with rootlets	. (TOPSOIL)			1/ 1//	GDU	
0.30-0.50	ES						85.64		Light	t grey sandy S	SILT. (GLACI	AL DEPOSIT)			× ×	GDU	
							85.44	0.50	Firm	light brown m	nottled grey C	CLAY. (GLACIA	L DEPOSIT)		<u>××</u>		
								-									
1.00-1.45	D	111						-									
1.00-1.45	(S)	1,1,1 1,1,1 N=4.						- -(1.40)								GDU	
		14-4.						-									S. S.
																	S
						1	94.04	1 00									
200045	_	400				<u></u>	84.04	1.90	Light	t brown SILT.	(GLACIAL D	EPOSIT)			× ×		
2.00-2.45	D (S)	1,0,0 1,0,0 N=1.						(0.50)							× × × ×	GDU	
		IN=1.					83.54	2.40	D		OAND.		I ODA)/E	. (01.40141	× ×		夏
							83.34	2.60	LDEP	OSIT)		and fine suban			0.00	GDU	200
								-	Soft	to firm brown	slightly silty (	CLAY. (GLACIA	AL DEPOSIT)	l	× ×		S S
3.00		1,0,1						-							× ×		
5.00	(S)	0,1,0 N=2.						- -(1.20)							× ×	GDU	
		., 2.						-							×		
															× ×		500
							82.14	3.80	Brow	un fine and me	OMA2 muiba	. (GLACIAL DE	:DOSIT)		* _× _		
4.00-4.45	D	1,2,2						-	BIOV	vii iiile aliu iile	edidili SAND	. (GLACIAL DL	.FO311)				
4.00-4.40	(S)	3,2,2 N=9.						(0.65)								GDU	
							81.49	- - 4.45									Ž
								-	Wind	dow sample c	omplete at 4.	45m bgl					
								-									
•								-									
								-									
								-									
								[									
								-									
	Hole	Diamete	<u>                                       </u>					Recov	verv				Water	Strikes			
Depth	_	neter (mm	_	temark	s	Core 7	Гор (т)	Core Bas		% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
													1.90				
											contaminatio	sample hole com n observed. No r	adiological read	bgl. No visual or dings above back backfilled upon o	ground recor		
			Not	66. V	I dim	ensio	ns in m	etres La	nge eh	ould be read i	n accordance	with the provi	ded Kev Dec	criptions are ba	ased on vier	ıal and	_
Scal	le 1:37	.5				ficatio		5.103. LU	/gu 311	JUNE 1000	accordant	- maraic provi	aca ney. Des		accu on vist	adi dilu	

#### Hole No. **WINDOW SAMPLE LOG WS160** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 27-06-14 70004430 Harrow Estates Plc 27-06-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389843.200 **Premier Tracker Compact** 85.460 Dynamic Sampling Ltd J Kinchington N 382247.550

	IVIFLE	S & TE						I 5				STRAT	A				Ins Ba
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			С	escription			Legend	Geology	D 5
0.10	ES						85.26		MAE is fir	DE GROUND: ne to coarse ar	Crops over b	rown gravellegounded of var	y fine to coars	e SAND. Gravel s. (TOPSOIL).	711/2 7/11	GMG	
							85.06		MAE	DE GROUND: to coarse sub	Orange brow	n gravelly fine	to coarse SA			GMG	ı
).50	ES						84.96 84.86		_	DE GROUND:				of ash.	$\times$	GMG GMG	H
7.50	LO	•								DE GROUND:						OIVIO	
								-		brown and greangular to rour				fine to coarse POSIT)			
.00	D (S)	1,0,1 0,1,1						(0.90)								GDU	
1.01	ES	N=3.						Ė	1.20	) m bgl; no gra	vel						
							83.96	1.50	Loo	ee brown and l	iaht arov elia	htly gravelly fir	no and modium	n SAND. Gravel	0		
								<u> </u>	is ro	unded and sul	brounded of v	arious litholog	ies. (GLACIA	L DEPOSIT).			
								(0.50)								GDU	
							83.46	2.00							0		
2.00	D (S)	2,2,2 2,1,1						-	Loos	se reddish bro	wn silty fine S	SAND (GLACI	AL DEPOSIT)	•	×		
	`	N=6.						[ ]							×		
								-							× .		
								-							×		
								-							×		
															× .		
.00	D	1,1,1						(2.00)	2 00	m bgl; becom	ing clavov				×	GDU	
.00	(S)	0,1,0						E l	3.00	m bgi; becom	ling clayey.				×		
		N=2.						[							× .		
								-							×		
								1							×		
								-							× .		
								ا ا							×		
.00	D	1,1,1					81.46	4.00	Win	dow sample co	omplete at 4	Om bal			× .		H
	(S)	1,1,1 N=4.						1		don dampio di	ompioto at 1.	om bgi.					
		14-4.						-									
								[									
								-									
								-									
								-									
								t l									
								[									
								-									
								[									
								_									
		Diameter				<u> </u>	F / . ·	Recov		0/ 5				Strikes	01 "		
Depth	Dian	neter (mm)	R	emark	s (	core I	op (m)	Core Bas	e (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asin
											General Rer		anlata at 4.00	hal No visual see	Ifactor:	longe of	
											contaminatio	n observed. No	radiological read	bgl. No visual or o dings above backg	round recor	ded. No	
														oon completion. R			4.0n
	1		I		- 1					i	ugi.						

<b>WSP</b>		WINE	OOW SAMPLE		Hol	e No. <b>WS161</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 02-07-14 02-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	S Weston	E 389802.760 N 382140.400		85.400

SA	MPLE	S & TE	STS									STRAT	A				Insta Back
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			Г	Description			Legend	Geology	Dia 50 mn
	ES						85.05	(0.35)	Hay and	over brown si medium roun	lightly clayey a ded of various	slightly gravelly s lithologies. (T	fine SAND. ( OPSOIL)	Gravel is fine	7 717	TS	
- -							84.75	-(0.30)	Orai	nge brown me	edium and coa	arse SAND. (S	UPERFICIAL	DEPOSITS)		SUPD	
0.70-0.80	ES						84.50		angı	ular of various	lithologies. (	slightly gravelly	DEPOSITS)	)	0	SUPD	
_ 1.00-1.45	D	2,1,2					84.30	1.10				SAND. (GLAC				GDU	
2.00-2.45	(S)	3,3,4 N=12.		70 78 110 106				(1.30)	sligh	medium and htty gravelly Cl logies. (GLA	LAY. Gravel i	orange brown s fine and med ITS)	mottled grey ium angular o	slightly sandy of various		GDU	
	(S)	2,2,2 N=8.				1	83.00	2.40							0		
						<u></u>	82.70	(0.30)	Red	dish brown cla	ayey fine SAN	ID. (GLACIAL	DEPOSITS)			GDU	
3.00	(C)	1,1,1 0,1,2 N=4.						(0.90)	Soft	reddish brow	n CLAY. (GL	ACIAL DEPOS	SITS)			GDU	
							81.80	3.60	Loos	se brown sligh	ntly fine SANE	). (GLACIAL E	DEPOSITS)				
4.00 	(C)	1,1,2 1,2,3 N=8.					80.40	-(1.40)								GDU	24242424242
-							60.40	- 5.00	Win	dow sample c	omplete at 5.	0m bgl.					WC.
								-									
Donth		Diamete		ama-		Coro	Fon (m)	Reco		% Paggran	Data	Time		Strikes	Standing		oinc
Depth	Dian	neter (mm	)) R	emark	SS	Core -	Гор (т)	Core Bas	se (m)	% Recovery	observed. No	nple complete at o radiological rea	idings above ba	Minutes  Ifactory or visual ackground records on completion. Res	ed. Groundwa	ontaminat	
Scal	le 1:37	.5				nensio ficatio		etres. Lo	ogs sh	nould be read		e with the provi	ided Key. Des	scriptions are ba	ased on visu	ual and	

<b>MSP</b>					WINDOW SAMPLE LOG										Hole No. WS162 Sheet 1 of 1			
WSP 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:						Project Woodford Aerodrome												
Job No	·				Client Date											04.07	4.4	
	7000	)4430		Harrow Estates Plc											01-07-14 01-07-14			
Contracto	or / Dr	ller	ľ	Met	thod/Plant Used Logged By Co-Ordinates (NGR) Grou									Groun	ind Level (m AOD)			
Dynam	nic Sai	mpling L	.td	Pre	emie		acker C 110	ompac	t	S We	ston		389564.110 381982.630			85.990		
SA	AMPLI	ES & TE	STS									STRAT	4	<u>'</u>				Install /
Depth	Туре	Test Result	PID (ppmV)	HSV kN/m2)	P.Pen kN/m2)	Water	Elev. (mAOD)				De	escription				Legend	Geology	Dia. 50 mm
0.00-0.20	ES						85.89 85.79			DE GROUND:	Grass over bro	own slightly s	andy SILT with	n rootlets.			CMG GMG	
							85.64		IAM/	DE GROUND:					//	<u> </u>	SUPD	
-0.35-0.95 - -	ES							-		n dark brown o y loose light br				)	/			
- -0.75-0.95	ES							(0.95)									GDU	
- _ _1.00		1,0,1																
- -	(S)	0,1,0 N=2.					84.69	1.30										
_1.30-1.50 -	ES							-	and	y soft to firm br medium sand estone and san	(<10mm). Gra	avel is fine to	coarse subrou	pockets of t nded of	tine			
- - -								-	IIIIIC	ssione and san	idstorie. (GLAC	DIAL DEFOSI	1)					
- -								_										
_2.00 -	(S)	1,0,0 1,0,0 N=1.						- -(1.80)									GDU	
- - -								-								<u> </u>		
- -								-										
- -								-										
3.00	(S)	1,2,1 2,1,2					82.89	3.10	Loo	se silty fine SA	ND. Blowing o	conditions fror	n 3.1m bgl. (G	ILACIAL		×		1
-		N=6.						-	DEF	POSITS)						×		
-								-								×		
- - -								(1.35)								×	GDU	
_4.00	(S)	1,2,1 1,1,1						-								×		
-	(0)	N=4.					81.54	- 4.45								×		
- -							61.34	-	Win	idow sample c	omplete at 4.4	5m bgl						
-								-										
- -								-										
-																		
-								-										
-								-										
-								_										
Hole Diameter  Depth Diameter (mm) Rema										Strikes Minutes								
20011	Jidi		, 10		-		- 17 (***)		- (***)		34.0	,,,,,	500					
											contamination	ample hole com observed. No r	plete at 4.45m t adiological read	ings above b	ackgro	und record	ded.	
													I. Hole installed					to

08 WSP WINDOW SAMPLE I

Scale 1:37.5

<b>WSP</b>		WINE	OOW SAMPLE		Hol	e No. <b>WS163</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Sheet 1 of 1			
Job No 70004430		Client	30-06-14 30-06-14			
Contractor / Driller		thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	S Weston	E 389355.530 N 381969.190		86.160

SAMPLES & TESTS										Install / Backfill						
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)	Description	Legend	Geology	Dia.				
							85.96	0.20	MADE GROUND: Brown silty slightly gravelly CLAY with occasional ash. Gravel is fine of coal. (TOPSOIL)		CMG					
0.30	ES			66 70			85.76	0.40	MADE GROUND: Firm and stiff brown silty slightly gravelly CLAY Gravel is		MG					
0.50	ES			46			-		-	Firm medium strength grey slightly sandy CLAY (GLACIAL DEPOSITS)						
-				36				-(0.60)			GDU					
1.00		1,2,2					85.16	1.00	Loose to medium dense light brown fine and medium SAND. (GLACIAL							
-	(S)	2,3,3 N=10.						-	DEPOSITS)							
-								-								
2.00		1,2,2				₹		- -								
2.00	(S)	2,2,2 N=8.						(2.45)			GDU					
-								-								
- <u> </u>  -								-								
2								_								
3.00	(S)	1,2,1 2,1,2 N=6.						-								
-		11-0.					82.71	- - 3.45								
									Window sample complete at 3.45m bgl							
- - 2-								-								
-								-								
5-																
								-								
<u>-</u>								-								
								_								
								-								
-								-								
								-								
Hole Diameter								Reco	very Water Strikes	Water Strikes						

FE1.03.GDT 11/12/14	3.00	(S)	1,2,1 2,1,2 N=6.				82.71	- - - - - - - - - - - - - - - - - - -									
08 WSP WINDOW SAMPLE LOG WOODFORD LOGS - COMBINED -100914 - UP TO DATE VERSION GPJ WSPETEMPLATE1.03.GDT 11/12/14										dow sample c	omplete at 3.4	l5m bgl					
D LO(					Reco					Water							
WINDOW SAMPLE LOG WOODFORD	Depth	Dian	neter (mm)	Re	marks	Core T	op (m)	Core Bas	se (m)	% Recovery	General Rem Windowless s contamination Groundwater		Strike 2.00  pplete at 3.45m I adiological read 2.0m bgl. Hole b	Minutes  ogl. No visual or ings above back ackfilled upon c	Standing  Olfactory evide ground record ompletion.	Casing  nce of ed.	
08 WSP	Scal	e 1:37	'.5	Note	otes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and nanual identification.												

<b>WSP</b>	WINI	DOW SAMPLE	LOG	Hole	e No. <b>WS164</b>
WSP 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:	Project	Woodford Aerodrome	;	She	et 1 of 1
Job No 70004430	Client	Harrow Estates Plc		Dat	e 30-06-14 30-06-14
Contractor / Driller	Method/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Premier Tracker Compact 110	S Weston	E 389160.030 N 381965.380		85.410

SAM	MPLE	S & TE	STS									STRAT	Α				Ins Ba
Depth	Туре	Test Result	PID (bpmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	D f
							85.21	Γ΄		DE GROUND: PSOIL)	Grass over b	rown slightly s	andy clay with	many rootlets.		CMG	
							84.96	-	MAE		Grey very sa	ndy fine to coa	rse angular G	RAVEL of		MG	
0.60	ES						04.90	- 0.43			ium strength	grey very silty	CLAY. (GLAC	IAL DEPOSITS)	× × ×		
								[							× ×		
.00	(0)	1,1,1						(1.15)							× ×	GDU	
	(S)	1,1,1 N=4.						-							XX		
							83.81	1.60							× ×		
								E	Firm	to stiff brown	and light gre	y mottled CLA	Y. (GLACIAL I	DEPOSITS)			
								_									
.00	ES (S)	1,1,1 1,1,1 N=4.						(1.10)								GDU	
		11-4.						-									
							82.71	2.70									
								-	Soft	and firm brow	n slightly silty	CLAY. (GLAC	CIAL DEPOSIT	TS)	× ×		
.00	(6)	1,1,2						_							× _ x		
	(S)	1,2,1 N=6.						-(1.00)	3.20	m bgl; becom	ning very low	strength			× ×	GDU	
						1		-							XX_		
						₹	81.71	3.70	Ligh	t brown fine a	nd medium S	AND. (GLACIA	AL DEPOSITS	5)	× ×		
1.00	(S)	3,4,4 5,5,6 N=20.														GDU	
		11-20.					80.96	- 4.45									Q
								-	Win	dowless samp	ole complete a	at 4.45m bgl					
								-									
								-									
								-									
	Hole	Diameter			T			Reco	very				Water	Strikes			<u></u>
Depth	Diam	eter (mm)	R	emark	s	Core 7	Гор (т)	Core Bas		% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asin
													3.70				
											General Rer	narks					
											Windowless contamination	sample hole com n observed. No r encountered at	adiological read	bgl. No visual or olf lings above backgro nstalled upon comp	ound recor	ded.	one
			1														

<b>WSP</b>		WINE	OOW SAMPLE		Hole	e No. <b>WS165</b>
WSP 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	1 of 1
Job No 70004430		Client	Harrow Estates Plc		Dat	te 01-07-14 01-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	S Weston	E 389278.880 N 381811.100		87.490

	MPLE	S & TE						Danth				STRAT	Α				Inst Bac
Depth	Туре	Test Result	PID (bpmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Dia / mi
							87.29	L '	Gre	y silt with rootle	ets. (TOPSOII	L)			711/2 7/11	TS	
0.30-0.40	ES						01.29	_(0.34)	Firm	and stiff brow	n mottled gre	y slightly sand	ly CLAY. (GLA	ACIAL		GDU	设置
0.55-0.65	ES						86.95 86.84	- 0.54		y fine to mediu	ım SAND with	black staining	a at base (GI	۸۵۸۱	0,0	GDU	<u>Q</u>
0.55-0.65	E3	•					00.04	-	\DEF	POSITS)				IAL DEPOSITS)	/	JODO	2
1.00	(S)	1,2,2 2,3,4 N=11.						- - - - -	Wec	ndm dense ngi	it brown line a	and mediam o	AND. (GLAC	AL DEI 00110)			
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									
-								- - - - - - - - - - - - - - - - - - -	vvin	dow sample o	ompiete at 4.4	ю вді					
	Hole	Diamete	r					Recov	very				Water	Strikes			_
Depth	_	neter (mm		emark	s	Core 7	Гор (m)			% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
Depth	_			emark	is (	Core 1	Гор (m) (	Recov		% Recovery	General Ren Windowless s contamination	narks sample hole com	Strike		Ifactory evic	dence of	

"												
9	ŀ	Hole Diameter			Recovery				Water	Strikes		
SKD	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
OG WOODFC												
VINDOW SAMPLE I							General Rem Windowless s contamination Groundwater	narks sample hole com n observed. No r not encountered	nplete at 4.45m l radiological read d. Hole backfilled	ogl. No visual or lings above bacl d upon completion	olfactory evide kground recorde on.	nce of ed.

<b>WSP</b>		WINE	OOW SAMPLE		Hol	e No. <b>WS166</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 01-07-14 01-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	S Weston	E 389471.740 N 381848.570		85.570

SA	MPLE	ES & TE						Death				STRAT	A		1		Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			C	escription			Legend	Geology	Di 5 m
							85.32	- 1	MAE Grav	DE GROUND: vel is fine to m	Brown slight	lly sandy slight	ly gravelly SIL linker.	T with rootlets.		TS	
).30-0.50	ES	ě					85.32	- 0.25	Soft	to firm organio	CLAY with			eat.			1
								-	(30)	PERFICIAL DI	<u> </u>				77/		
								_(0.85) -							//	SUPD	
.00		Sw,Sw,1					84.47	1.10									
	(S)	0,0,0 N=1.					0	- 1	Ligh DEF	t brown mediu POSITS)	m to coarse	SAND. Becom	ing wet. (GLA	CIAL		CDII	
.10-1.30	ES					₹	84.07	-(0.40) - 1.50								GDU	
						=		(0.30)	Ligh	t brown silty fir	ne SAND (Gl	ACIAL DEPO	SITS)			GDU	
							83.77	1.80	Soft	and very soft	light grey CL	AY (GLACIAL	DEPOSITS)				
2.00	(S)	1,1,1 0,1,2						(0.70)								GDU	
	(-)	N=4.						[									
							83.07	2.50					owing condition	ns experienced			
								-	from	ı 2.5m bgl. (GL	ACIAL DEP	OSITS)					
.00		1,2,1						-									
.00	(S)	2,1,2 N=6.						-									
								(1.95)								GDU	1 1
								-									
								-									
l.00	(S)	1,1,2 1,2,1						-									
		N=6.					81.12	4.45									
							02	-	Win	dow sample co	omplete at 4.	45m bgl					
								-									
								-									
								-									
								-									
								-									
								-									
Depth		Diameter		emark		Coro -	Ton (m)	Recov Core Bas		% Recovery	Date	Time	Water Strike	Strikes Minutes	Standing	0.0	asing
Dehiii	Dial	notor (IIIII)	, 1	omark	9	OULE	1 oh (111)	OUIC DAS	ic (III)	70 Necovery	Date	Tille	1.50	iviii iules	Standing	1 02	2011 IQ
											contaminatio Groundwater	sample hole con n observed. No	radiological read	bgl. No visual or oli lings above backgr ole installed upon o	ound recor	ded.	se
			1														

											TU old	e No.			
,		<b>NSP</b>					1	MIN	DOW SAMPLE	LOG	liloie		<b>N</b> S1	67	
	50-182 <sup>-</sup> M50 ohone: 0	'SP The Quays 0 3SP 0161 886 2 fax:			Proje	ect			Woodford Aerodrome	;	She	et	1 of	1	
Job No	7000	04430			Clier	nt			Harrow Estates Plc		Dat	(	01-07- 01-07-		
Contracto	or / Dri	ller		Met	hod/	Plan	t Used		Logged By	Co-Ordinates (NGR)		Groun	d Level	(m AO	D)
Dynam	ic Sar	mpling L	td	Pro	emie		acker Co 110	ompact	S Weston	E 389530.660 N 381787.190			85.2	260	
SA	MPLE	ES & TE	STS							STRATA					Install / Backfill
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)	Des	scription			Legend	Geology	Dia. 50 mm
0.00-0.20	ES						84.96	(0.30)	MADE GROUND: Brown slightly s Gravel is fine and medium angula	ar of ash and clinker. (TOPSOIL		lets.		CMG	
1		1	1	1	1	1	1 7		MADE COOLIND, Firm brown CL	AV with rore och			$1 \times 1 \times 1 \times 1$	ų.	

Гуре ES	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick			D	escription			Legend	Geology	D 5
ES		١	ı ~	. ~												m
						84.96	-ness) _(0.30) _ 0.30	MAE Grav	DE GROUND: vel is fine and	Brown slightl medium angu	y sandy slightl ılar of ash and	y gravelly SIL <sup>-</sup> clinker. (TOP	Γ with rootlets. SOIL)		CMG	
						84.76		MAE	DE GROUND:	Firm brown C	LAY with rare	ash			CMG	1
ES						04.70	Ι Ι	Ligh	t brown clayey	fibrous PEA	T. (SUPERFIC	IAL DEPOSIT	S)	<u> </u>	DEAT	
						84.41	-(0.35) - 0.85							1, 1,	PEAT	
	100					84.26	1.00				(SUPERFICIA	L DEPOSITS	)	11, 11,	SUPD	
(S)	0,1,0 N=1.						-	BIOV	WIT IIDIOUS F LA	۸۱.				1, 11,		
							(0.70)							<u> </u>	PEAT	
						83.56	1.70							1, 11,		
							-	Soft	light grey san	dy CLAY. (GL	ACIAL DEPO	SITS)				
	100						-									
(S)	1,0,0 N=1.						-									
							-									
							-									
							-									
	1,2,1						(2.75)								GDII	
(S)	2,1,1 N=5.						- (2.73)								GBO	
							-									
							-									
							[									
	1,1,1						- 1									) 33
(S)	1,1,2 N=5.						-									S
						80.81	- 4.45 -	\\/in	dow sample o	omplete at 4	15m hal					芝
							-	VVIII	dow sample d	ompiete at 4	FOITI DGI					
							-									
							-									
							-									
							-									
							-									
							-									
Hole	Diameter						Recov	very				Water	Strikes			_
Diam	eter (mm)	R	temark	s	Core 7	Гор (т)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sin
										Windowless s contamination	sample hole con n observed. No i	adiological read	ings above backs	round record	ded.	1 to
		Not														
	(S) (S)	(S) 1,0,0 1,0,0 N=1. (S) 1,2,1 2,1,1 N=5. (S) 1,1,1 1,1,2 N=5.	(S) 0,1,0 N=1. 1,0,0 1,0,0 N=1. (S) 1,2,1 2,1,1 N=5. (S) 1,1,2 N=5.	(S) 0,1,0 N=1. (S) 1,0,0 1,0,0 N=1. (S) 1,2,1 N=5. (S) 1,1,1 1,1,2 N=5.	(S) 0,1,0 N=1. (S) 1,0,0 N=1. (S) 1,2,1 N=5. (S) 1,1,1 N=5.	(S) 0,1,0 N=1. (S) 1,0,0 N=1. (S) 1,2,1 2,1,1 N=5. (S) 1,1,1 1,1,2 N=5.	(S) 1,0,0 0,1,0 N=1. 83.56  (S) 1,0,0 1,0,0 N=1. (S) 1,2,1 2,1,1 N=5. (S) 1,1,1 1,1,2 N=5. 80.81	(S) 1,0,0 0,1,0 N=1.	(S) 1,0,0 0,1,0 N=1. Soft    (S) 1,0,0 1,0,0 N=1. Soft    (S) 1,0,0 1,0,0 N=1. Soft    (S) 1,0,0 N=1. Soft    (S) 1,1,1 N=5. Soft    (S)	(S) 1.0.0	Soft light grey sandy CLAY. (GL   1.00   1	84.41   0.85   84.26   1.00   Firm brown CLAY with rootlets. (SUPERFICIAL Brown fibrous PEAT.   (0.70)   83.56   1.70	Solution   Solution	Soft light grey sandy CLAY, (GLACIAL DEPOSITS)   Soft light grey sandy CLAY, (GLACIAL DEPOSITS)	Bat 41	Section   1,00

က္က၂															,		
POO	ŀ	Hole Diamet	er					Recove	ery				Water	Strikes			
ORD	Depth	Diameter (mi	m)	Remark	s	Core 7	Top (m)	Core Base	e (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Cas	sing
SAMPLE LOG WOODF											contamination	sample hole com observed. No r	adiological read	ogl. No visual or ings above back	karound record	ed.	
WINDOW											Groundwater 3m bgl.	not encountered	I. Hole installed	upon completion	ı. Response zo	one from '	1 to

#### Hole No. **WS168 WINDOW SAMPLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 02-07-14 70004430 Harrow Estates Plc 02-07-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389597.380 **Premier Tracker Compact** 85.370 Dynamic Sampling Ltd S Weston N 381833.900

SAI	MPLE	ES & TE	STS									STRAT	A				Inst
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen KN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	Di mı
							85.17	-ness) - 0.20		DE GROUND: PSOIL)	Brown occas	ional black sa	ndy SILT with	rootlets.		CMG	
0.20-0.40	ES	•					84.97	0.40	MAE	DE GROUND:	Black fine an	d medium sub evel of clinker.	angular and s	subrounded		GMG	
0.40-0.70	ES	÷					84.67	(0.30)	MAE	DE GROUND:	Grey silty slig		LAY. Gravel i	s medium and		CMG	
0.70-1.10	ES	٠					0	-		vn fibrous PE					<u> </u>		
1.00	5	SW,SW,SV	,					-							<u> </u>		
	(S)	SW,1,0 N=0.						- (1.20)							1, 11,	PEAT	
								[(1.20)							<u> </u>		
								-							1, 11,	1	
							83.47	1.90							71/ 71/		
2.00		1,0,0						-	Very	soft light grey	CLAY. (SUP	ERFICIAL DE	POSITS)				
	(S)	0,0,0 N=0.						-									2
								(1.10)								SUPD	S.
								-(0)								00. 5	
																-	
3.00		1,0,1					82.37	3.00	Liab	t arouish brou	n fine to mad	ium SAND. (G	LACIAL DED	OCITY			
5.00	(S)	1,0,1 1,2,3 N=7.						(0.45)	Lign	t greyish brow	n tine to mea	ium sand. (G	LACIAL DEP	0811)		GDU	
		14-7.					81.92	F` '									E S
									Win	dow sample c	omplete at 3.4	15m bgl					
								-									
-								-									
								-									
								-									
								-									
Depth		Diameter neter (mm)		emark		Core 7	Top (m)	Recov Core Bas		% Recovery	Date	Time	Water Strike	Strikes Minutes	Standing		asing
Берит	Diali			Ciriain		JUIE 1	ορ (III)	COIC Das	~ (111)	70 1 (COOVELY	Date	Time	Oune	iviii iules	Standing		ا ۱۱وم
											General Ren	narks					
											Windowless s contamination	sample hole con	radiological read	bgl. No visual or ol dings above backgr illed.	factory evic ound recor	lence of ded.	
	e 1:37		Not	es. ΔΙ	l dim	ensio	no in m	otroo Lo					dad Kari Daa	criptions are bas		ıol ond	

<b>WSP</b>		WINE	OOW SAMPLE		Hol	e No. <b>WS169</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome	,	She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 02-07-14 02-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact	S Weston	E 389691.350 N 381902 370		85.430

Гуре	Test Result	PID (ppmV)	HSV (kN/m2)	en m2)	ter	Elev.	Depth									Dia
		ᇦ	Ξ¥	₽. Ş	Water	(mAOD)	(Thick -ness)			D	escription			Legend	Geology	mı
						85.23	L ' I	Gras	ss over clayey	silt with rootle	ets. (TOPSOIL	)		Z1 1N Z1 1	TS	
ES							(0.30)	Ligh	t brown fine a	nd medium SA	AND. (SUPER	FICIAL DEPC	SITS)		SUPD	
ES							(0.30)	Very	soft grey slig	htly sandy silty	CLAY. (SUP	ERFICIAL DE	POSITS)	× × ×	SUPD	D. C. C.
						84.63	- 0.80	Very	soft brown C	LAY. (SUPER	FICIAL DEPO	SITS)		- <del>x</del> -		⑫
	SW,SW,1						-									2
(S)	0,0,0 N=1.						-									2
							-									2
							-									
							-									
							-									
(S)	SW,SW,1						(2.65)								SUPD	
(0)	N=1.						-									盆
														<u> </u>		浴
							-							<u> </u>		3
							-									A A
							-									
(S)	0,1,0						_									
	N=2.					24.00								<u> </u>		6
						81.98	- 3.45 -	Wine	dow sample c	omplete at 3.4	I5m bgl					25
							- - - - - - - - - - - - - - - - - - -									
_				T										<u>'</u>		<u> </u>
Dian	neter (mm)	Re	emark	s (	Core 1	op (m)	Core Bas	e (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
										Windowless s contamination	sample hole com n observed. No r	adiological read	ings above back	olfactory evic ground recor	dence of ded.	
	(S) (S)	(S) SW,SW,1 0,0,0 N=1. SW,SW,1 0,0,0 N=1.	SW,SW,1 0,0,0 N=1.  SW,SW,1 0,0,0 N=1.  (S)  1,0,1 0,1,0 N=2.	(S) SW,SW,1 0,0,0 N=1. (S) SW,SW,1 0,0,0 N=1. (S) 1,0,1 0,1,0 N=2.	(S) SW,SW,1 0,0,0 N=1. (S) SW,SW,1 0,0,0 N=1. (S) 1,0,1 0,1,0 N=2.	(S) SW,SW,1 0,0,0 N=1. (S) SW,SW,1 0,0,0 N=1. (S) 1,0,1 0,1,0 N=2.	(S) SW,SW,1 0,00 N=1. (S) SW,SW,1 0,00 N=1. (S) 1,0,1 0,10 N=2. 81.98	SW,SW,1 (S) SW,SW,1 (O.0,0 N=1. (2.65)  (S) SW,SW,1 (O.0,0 N=1. (2.65)  (S) O.1,0 N=2. (2.65)	SW,SW,1 (S) SW,SW,1 (O,0,0 N=1. (S) 0.50 SW,SW,1 (S) 0.80	ES	SW, SW, 1	SW.SW.1	SW SW,1   0,00   N=1.	SW SW,1	SW, SW, 1 (S) SW, SW, 1 (S) N=1.  (S) SW, SW, 1 (S) SW, SW, 1 (S) N=1.  (S) SW, SW, 1 (S) N=1.  (S) SW, SW, 1 (S) SW, SW, 1 (S) N=1.  (S) SW, SW, 1 (S)	Be S 0. 0.50    Respondence   Recovery   Water Strikes   Recovery   Date   Time   Strike   Minutes   Standing   Calcal Provided at 3.5m bgl, Novisual or offscory evidence of contamental or observed Novel and offscory evidence of contamental or observed Novel Novel and offscory evidence of contamental or observed Novel Novel and offscory evidence of contamental or observed Novel Novel and offscory evidence of contamental or observed Novel Novel and offscory evidence of contamental or observed Novel Novel and offscory evidence of contamental or observed Novel Novel and offscory evidence of contamental or observed Novel Novel and offscory evidence of contamental or observed Novel Novel and offscory evidence of contamental or observed Novel Novel and offscory evidence of con

צ												
2		Hole Diameter			Recovery				Water	Strikes		
צ	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
Ź										ļ		
5										ļ		
2										ļ		
										ļ		
7							General Rem	narks				
5							Windowless s	sample hole com	plete at 3.45m	bgl. No visual or lings above back	olfactory evider	nce of
Š							Groundwater	not encountered	d. Hole not insta	lled.	iground recorde	a.

<b>WSP</b>		WINE	OOW SAMPLE		Hol	e No. <b>WS170</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 02-07-14 02-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	S Weston	E 389653.420 N 381828.670		85.660

SA	MPLE	S & TE	STS									STRAT	·A				Inst
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			С	escription			Legend	Geology	Di 5 m
0.00-0.20	ES						85.46	L ' I	Gras	ss over brown	slightly claye	y slightly sand	y SILT. (TOPS	SOIL)	711/	TS	M
0.20-0.60	ES						00.40	- 1	Firm	and stiff geyis	sh brown silty	CLAY. (GLAC	CIAL DEPOSI	T)	<u>×</u> ×		
							85.06	0.60							× × ×	GDU	
							00.00		Stiff	reddish brown	slightly sand	ly CLAY. (GLA	CIAL DEPOS	SIT)	= -		1
								(0.50)								GDU	
.00	(S)	1,2,1 2,1,2					84.56		Loos	se reddish bro	wn fine and n	nedium SAND	(GLACIAL D	FPOSIT)			-
		N=6.											. (0===	,			
								_									
								-									
2.00	(S)	1,1,1 1,1,1 N=4.						-									
		11-4.						-									
								-									
								(3.35)								GDU	
.00		1,1,1						-									
.00	(S)	1,1,1 1,1,1 N=4.						-									
								-									
								-									
																	30
1.00		1,1,2						_									8
	(S)	1,2,1 N=6.						-									
							81.21		Wine	dow sample co	omplete at 4.	45m bgl					20
								-		·		Ü					
								-									
								-									
								-									
								-									
																	<u>_</u>
Depth		Diameter neter (mm)		emark	s	Core -	Гор (m)	Recove Core Base		% Recovery	Date	Time	Water Strike	Strikes	Standing	Ca	asing
r.					1	-	/		` /	,			-		. 9		
											General Rer		nplete at 4 45m	bgl. No visual o	olfactory evid	ence of	
											contaminatio	n observed. No	radiological read	dings above bac upon completio	kground record	ded.	າ 0.8

<b>WSP</b>		WINE	OOW SAMPLE	LOG	Hol	e No. <b>WS171</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome	3	She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 02-07-14 02-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	S Weston	E 389612.240 N 381696.670		85.320

110

SA	MPLE	S & TE	STS									STRAT	A				Insta Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Dia / mr
0.00-0.20	ES	•					85.12	L ´	Firm	brown slightl	y sandy slight	ly gravelly CLA	Y with rootlet	s. Gravel is sub	7/1/2 7/1/2	TS	
0.20-0.70	ES						84.92					FICIAL DEPOS	SITS)			GDU	
							04.92		Firm	brown slightl	y silty CLAY.	(GLACIAL DEI	POSIT)		××	OPU	
							84.62	(0.30) 0.70							× —×	GDU	
								-	Loos	se brownish g	rey fine and m	nedium SAND.	(GLACIAL DI	=POSII)			
1.00	(0)	2,2,2						-									
	(S)	1,0,1 N=4.						_									2
								-									
								(1.90)								GDU	
								L									
2.00		1,0,1						L									
	(S)	1,2,1 N=5.						-									
								-									2
							82.72	2.60	Firm	brown mottle	d arev CLAY.	(GLACIAL DE	POSIT)				
								F			- 9,	(	,				
3.00		1,0,1						(0.85)								GDU	
	(S)	1,1,1 N=4.						F									
							81.87	- 3.45									25
								-	Win	dow sample c	omplete at 3.4	45m bgl					
								F									
_								F									
								-									
								F									
								-									
								ļ									
_								_									
								-									
								-									
								-									
								-									
_																	
Destin		Diamete	_	·		0	Fan (::)	Reco		0/ Dag : : :	Dete	T:		Strikes	Otan II :		
Depth	Dian	neter (mm	, R	temark	is (	core	Гор (т)	core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
											General Rer	narke					
											Windowless	sample hole con	nplete at 3.45m adiological read d. Hole not insta	bgl. No visual or ol lings above backgi lled.	factory evidence or found recore	lence of ded.	
	10.4:07	-	Not	es: A	l dim	ensic	ns in m	etres I o	ogs sh	ould be read	n accordance	with the provi	ded Kev. Des	criptions are bas	ed on visi	ual and	
Sca	le 1:37	.5	mai	nual i	dentif	icatio	n.	Jugg. Ll	-ყა ა	ICUIU DE ICAU	accordance	, with the provi	aca Ney. Des	onpuono are nas	VISI	au ailu	

		<b>VSP</b>					1	WIN	DOW SAMPLE	LOG	Hole		<b>NS</b> 1	72	
	50-182 M50 ohone: 0	5P The Quays ) 3SP )161 886 24 ax:	400		Proj	ect			Woodford Aerodrome	)	She	et	1 of	1	
Job No	7000	)4430			Clie	nt			Harrow Estates Plc		Date	•	02-07- 02-07-		
Contracto Dynam		ller npling Li	td			r Tra	t Used acker Co 110	ompact	Logged By S Weston	Co-Ordinates (NGR) E 389607.410 N 381602.920		Groun	d Level 87.3	`	D)
SA	MPLE	ES & TE	STS						1	STRATA					Install Backfil
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)	Des	scription			Legend	Geology	Dia. 50 mm
0.00-0.20	ES						87.16	_ ′	MADE GROUND: Brown sandy ( (TOPSOIL)	CLAY with rootlets and occasion	nal ast	h.		CMG	
0.20-0.40	ES						86.96	0.40	Brown clayey silty fine SAND. (GI	LACIAL DEPOSITS)			×	GDU	
0.40-0.60 _0.50	ES		0					-(0.55)	Medium dense orange brown fine	SAND. (GLACIAL DEPOSITS	5)			GDU	

						1											_ Ba
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick			С	escription			Legend	Geology	D 5
0.00-0.20	ES	•					87.16	-ness) - 0.20	MAE	DE GROUND:	Brown sandy	CLAY with roo	otlets and occ	asional ash.		CMG	
0.20-0.40	ES									PSOIL) wn clayey silty	fine SAND. (	GLACIAL DEP	OSITS)			GDU	L
0.40-0.60	ES						86.96	0.40				ne SAND. (GL		SITS)	· · · · × ·		ı
0.50		•	0					_ _(0.55)								GDU	
							86.41	-` ′									
1.00		2,2,3	0				00.41	- 0.95				SAND. Blowi	ng conditions	encountered			
	(S)	3,4,3 N=13.						[	from	1.8m bgl. (Gl	LACIAL DEP	OSITS)					
								-									
						١.		-									
						Ţ		-									
								- (2.05)								GDU	
2.00	(S)	1,0,1 1,1,2						-									
		N=5.						-									
								-									
							84.36	3.00									
							0 1.00	-	3.00	Window sam	ple complete	at 3.0m bgl					ľ.
								-									
								-									
								-									
								-									
								_									
								-									
								-									
								-									
								-									
								-									
								-									
								-									
								-									
								-									
								-									
	Holo	Diamete	<u> </u>					Recov	/OD/				Water	Strikes			<u></u>
Depth	_	neter (mm		emark	s	Core -	Гор (m)			% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asin
													1.80				
											General Rer	 marks					
											Windowless	sample hole com olfactory evidenc	plete at 3.0m b	igl.			
											No radiologio	al readings abov	e background r	ecorded. pletion. Response	e zone from 1	0 to 3 0n	m
											bgl.	oampie note inst	anca aport colli	piction. Nespuils	LONG HUIH I	.5 10 3.01	
							- 1				_						

က္ကါ																
ğ[	I	Hole Di	ameter					Recov	ery				Water	Strikes		
ORD	Depth	Diamet	er (mm)	Remark	(S	Core T	op (m)	Core Bas	e (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
LOG WOODF													1.80			
WINDOW SAMPLE											No visual or o	narks sample hole com lfactory evidenc al readings abov sample hole insta	e of contaminati e background re	ion observed. ecorded.	e zone from 1.0	O to 3.0m

#### Hole No. **WINDOW SAMPLE LOG WS173** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Client Date 01-07-14 70004430 Harrow Estates Plc 01-07-14 Co-Ordinates (NGR) Logged By Contractor / Driller Method/Plant Used Ground Level (m AOD) E 389815.780 N 381608.570 Premier Tracker Compact Dynamic Sampling Ltd S McGeever 84.340

SAI	MPLE	S & TE	STS									STRAT	A				Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				D	escription			Legend	Geology	, Di
							84.24	-ness) 0.10	MAE	DE GROUND:	Brown sandy	CLAY with roo	otlets. (TOPS)	OIL)		TS	30
0.20	ES		0				84.04	0.30	MA[	DE GROUND:	Brown mottle	d black gravel antly coal, clin	ly SAND. Gra	el is fine very		GMG	
								-				dy gravelly CL nded of various		fine and			
									med	lium subangul	ar to well rour	nded of various	lithologies.				
								-(0.80)							-0.	GDU	
								-									
1.00	D (S)	1,1,1 0,1,2	0				83.24	1.10	Firm	reddish brow	n eliahtly ean	dy eliabtly aray	ally CLAV Gr	avel is fine and	0		
	(-)	N=4.						-	med	lium subangul	ar to rounded	of various lith	ologies.	aver is fine and			
								-									
								-									8
																	6
2.00	D (S)	1,1,2 2,2,2													-		
		N=8.						_(2.30)								GDU	
								F									
								-									
															0		100
3.00	D	8,7,8						- 1									Ž.
	(S)	10,14,14 N=46.						-	3 20	m bgl; becon	nina stiff				<u> </u>		X
						Ţ	80.94	3.40				no to coorse o	lovov/oilty CAN	ID			2
3.50	ES		0						ivieu	ium dense red	JUISII DIOWII II	ne to coarse c	ayey/siity SAI	ND.			
								-							F =		
								-							<u> </u>		
4.00	(S)	10,10,12 13,14,11						-							F.—: T.		
	(-)	N=50/ 0.285.						-(1.60) -								GDU	
		0.200.															
								Ł I									8
								-									
-							79.34	5.00	\\/in	dow sample c	omplete at 5 (	Om hal			<u> </u>		R
									VVIII	dow sample c	ompiete at 5.	om bgi					
								L I									
								E I									
								- 1									
								_									
	_	Diameter	_		$\perp$			Recov			5 :		Water		01- "		
Depth	Dian	neter (mm)	R	emark	s (	core	Гор (m)	core Bas	se (m)	% Recovery	Date	Time	Strike 3.40	Minutes	Standing	Ca	asing
											No olfactory on No radiologic Groundwater	sample hole com	ocarbon contam e background ro 3.40m bgl.	ination observed. ecorded.			
														criptions are bas			

וא												
Š		Hole Diameter			Recovery				Water	Strikes		
ORD	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
WOODF									3.40			
LE LOG												
WINDOW SAMPLE LOG							No olfactory e No radiologica Groundwater	sample hole con evidence of hydr al readings abov encountered at	nplete at 4.0m by ocarbon contam re background re 3.40m bgl. kfilled upon com	ination observe ecorded.	d.	
/SP	Coolo	1.07 E	Notes: All dir	mensions in m	netres. Loas sh	ould be read	in accordance	with the provi	ded Kev. Desc	criptions are b	ased on visua	l and

<b>WSP</b>		WINE	OOW SAMPLE		Hole	e No. <b>WS174</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 02-07-14 02-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	S Weston	E 389872.140 N 381685.920		84.750

	MPLE	S & TE										STRAT	Α				Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Di
0.10-0.30	ES							-		ss over slightly	clayey silty d	ark brown fine	SAND with r	ootlets.	Z1 12 Z1 1		
0.30	ES						04.00	(0.45)	(.0	. 0012)					7 7 17	TS	
0.50-0.70	ES			50			84.30	- 0.45	Firm	n medium strei	ngth slightly s	andy slightly g	ravelly CLAY.	Gravel is fine			
0.70	D			52						medium round POSITS)	ded to subang	jular of various	s itnologies. (C	SLACIAL			
				40				<u> </u>									
1.00	(C)	1,1,2 1,2,3						(1.35)								GDU	
		N=8.						-									
								-							0		1 1
.70	D			70		<b>±</b>	82.95	1.80									
						-		-	Very   sand	/ loose reddish dy clay. (GLAC	ı brown claye IAL DEPOSI	y fine SAND w TS)	ith localised le	enses very soft			
2.00	(C)	0,1,0 0,1,0 N=1.						-									
		14-1.						-									
								-									
								- -(2.00)							+===	GDU	
3.00		0,0,1						-									
5.00	(C)	0,0,1 0,0,1 N=2.						-							T		
								-									
															+=-		
							80.95		Red	brown fine SA	AND. (GLACIA	AL DEPOSITS	·)			GDU	
1.00	(C)	1,0,1					80.75	4.00	Ver	/ loose gravell	y coarse SAN	D. Gravel is fi	ne angular to	rounded of	0		
	(C)	0,1,1 N=3.						-		ous lithologies 0 - 5.00 50% R		EPOSITS)					
								-(0.80)							0	GDU	
							79.95	4.80							0		
							79.85			very sandy re						GDU	K
5.00	(C)	3,4,5 4,4,3						(O EE)		lium dense gra ous lithologies			is fine angula	r to rounded of		GDU	
	(0)	N=16.						_(0.55) -							0	GDU	
							79.30	- 5.45	Win	dowless samp	le complete a	t 5.45m bgl					aS S
								-									
	Hole	Diameter	<u>                                      </u>					Recov	very				Water	Strikes			<u></u>
Depth		eter (mm)	_	emark	s	Core <sup>-</sup>	Top (m)	Core Bas		% Recovery	Date	Time	Strike	Minutes	Standing	Ca	asing
													1.80				
											General Ren	narks					
											Windowless s contamination	sample hole com n observed. No r encountered at	adiological read	bgl. No olfactory lings above back installed upon co	ground recor	ded.	one
	1		1		- 1					1							

	ŀ	Hole Diameter			Recovery				Water	Strikes		
3	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
5									1.80			
2												
ál												
							General Rem					
-							Windowless s contamination	ample hole com observed. No r	iplete at 5.45m l adiological read	bgl. No olfactory lings above bacl	or visual evider caround recorde	nce of d.
							Groundwater	encountered at		nstalled upon co		
							0.8 to 4.8m bg	gl.				

<b>WSP</b>		WINE	OOW SAMPLE		Hol	e No. <b>WS175</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 02-07-14 02-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	S Weston	E 389862.080 N 381770.810		85.280

SAI	MPLE	S & TE	STS									STRATA	4				Insta Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Dia
								(0.45)	Gras	ss over slightly ular of sandsto	gravelly orga one. (TOPSOI	nic CLAY. Gra L)	avel is fine and	d medium	\(\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2	TS	
0.50-0.60	ES			100 78			84.83	- 0.45 - -	Stiff grav	high strength relly CLAY. Gr	reddish browr avel is fine an	n mottled greer d medium rou	n grey slightly nded of variou	sandy slightly us lithologies.			
	D (C)	1,1,1 0,1,2 N=4.		90				_ _(1.05) _								GDU	
1.50-1.60	ES			40			83.78	1.50	is fir	locally soft me and mediun	edium strengt n angular to ro	h very sandy s ounded of vario	slightly gravell ous lithologies	y CLAY. Gravel . (GLACIAL			
2.00	(C)	1,1,2 2,2,2 N=8.		48 50				- - - -	DEF	03113)							\$2550 \$250 \$4
2.60	D	-		42				- -(2.00) - -	2.50	m bgl; becon	ning stiff					GDU	S255
3.00	(C)	8,7,8 10,14,14 N=46.		68		1		-									75555
						<u>*</u>	81.78	-(0.35)	Orar	nge brown fine	and medium	SAND. (GLAC	CIAL DEPOSI	TS)		GDU	
4.00	(C)	10,10,12 13,14,11 N=50/ 0.285.						(0.60)	Den	se orange bro	wn medium a	nd coarse SAN	nd. (Glacial	DEPOSITS)		GDU	45555
-							80.83	- 4.45	Win	dow sample h	ole complete	at 4.45m bgl					
	Hole	Diameter	<u>                                     </u>					Recov	very				Water	Strikes			
Depth	Dian	neter (mm)	R	emark	s	Core <sup>-</sup>	Top (m)	Core Bas	se (m)	% Recovery	Date	Time	Strike 3.50	Minutes	Standing	Ca	sing
											contamination	ple borehole con observed. No r	adiological read	bgl. No visual or o lings above backgr page. Hole backfill	ound record	ded.	
Scal	e 1:37	.5		es: Al				etres. Lo	ogs sh	nould be read i	n accordance	with the provid	ded Key. Des	criptions are bas	ed on visu	ual and	

ĕ	ŀ	Hole Diameter			Recovery				Water	Strikes		
읾	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing
E LOG WOODF									3.50			
WINDOW SAMPLE							contamination	narks ple borehole cor n observed. No r encountered at	adiological read	ings above back	ground recorde	d.

#### Hole No. **WS176 WINDOW SAMPLE LOG** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Project Woodford Aerodrome 1 of 1 Fax: Job No Client Date 02-07-13 70004430 Harrow Estates Plc 02-07-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 389916.060 **Premier Tracker Compact** 85.240 Dynamic Sampling Ltd J Watson N 382067.750

110

0.41	<u> </u>	· O O TE	0.70									OTDAT	Δ.				Ins
SAI	MPLE	S & TE		_	_			Depth				STRAT	A			1	Bad
Depth	Туре	Test Result	(bpmV)	HSV (kN/m2)	P.Pen (kN/m2	Water	Elev. (mAOD)				D	escription			Legend	Geology	D 5 m
0.10-0.20	ES		0					(0.45)	Gras med	ss over soft bro lium angular o	own slightly g f sandstone.	ravelly organic TOPSOIL)	CLAY . Grav	el is fine and	<u> </u>	TS	
).50 ).50-0.60	D ES	:	0	110			84.79	- 0.45 - -	Stiff CLA	high strength Y. (GLACIAL	orange browr DEPOSITS)	mottled grey	slightly sandy	slightly gravelly	-0-		
				96				(0.65)								GDU	
.00-3.00	B (C)	3,4,4 4,4,3 N=15.					84.14	1.10	Med	ium dense bro	own fine SAN	D. (GLACIAL [	DEPOSITS)		- 0		
								-(0.60)								GDU	
						±	83.54 83.34			greenish grey		•				GDU	
.00	(C)	1,2,2 3,3,4				<del>-</del>	83.14			dish brown fin- low strength r	`			AL DEPOSITS)		GDU	
		N=12.					82.94		Red	dish brown slig	ghtly clayey fi	ne SAND. (GL	_ACIAL DEPC	OSITS)			
							82.44 82.34		l : mlad	t brown mediu	- CAND (CI	ACIAL DEDO	OITO)			GDU	
.00	(C)	2,2,3 2,2,3				<b>2</b> <u>□</u>	02.04	_	Med	ium dense ora POSITS)				GLACIAL		GDO	
	(0)	N=10.						(1.10)								GDU	
								-									
							81.24	4.00	Wind	dow sample o	omplete at 4.0	Om bal					
								-		·	•	ŭ					
								-									
								-									
								- -									
								- -									
								-									
	Hole	Diamete	r					Recov	very				Water	Strikes			
Depth	Diam	neter (mm)	R	emark	s	Core 7	Гор (т)	Core Bas	se (m)	% Recovery	Date	Time	Strike 1.95 3.00	Minutes	Standing	Ca	asin
											visual or olfac background r	ple borehole ten	f contamination dwater encounter	n bgl with sampler and sampler	ological rea	adings ab	
			1	es: Al													

<b>WSP</b>		WINE	OOW SAMPLE		Hol	e No. <b>WS177</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 02-07-14 02-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	J Watson	E 389997.460 N 382157.000		83.970

MPLE	S & TE	STS									STRAT	Ā				Insta Back
Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD				C	escription			Legend	Geology	Dia
							(0.45)	Gra	ss over soft bro dium angular o	own slightly g f sandstone.	ravelly organio (TOPSOIL)	c CLAY . Grav	vel is fine and	1/ 3/1/	TS	
ES		0	76 70				(0.55)	fissu	ured CLAY. Gr	avel is fine ar	ottled grey slig nd medium rou	htly sandy slig unded of vario	ghtly gravelly ous lithologies.		GDU	
D (C)	4,5,4 3,4,4 N=15.		68 60 76			82.97	1.00	Stiff	high strength medium round	brown slightly ded of various	y sandy slightly s lithologies. (Ó	y gravelly CLA GLACIAL DEF	AY. Gravel is fil POSITS)	ne		
D (C)	2,3,3 3,3,4 N=13.		90 82 82 62				(2.10) 								GDU	
D (C) ES	1,1,1 1,1,1 N=4.	0	70		<u>‡</u>	80.87	3.10							ar o		
(C)	1,0,1 2,1,2 N=6.						(2.35)								GDU	
(C)	1,2,2 3,2,2 N=9.					78.52	- - - - - 2 - 5.45	5.45	5m bgl; Windov	v sample hol	e complete at	5.45m bgl				
							- - -									
_		_			0	Fan (: )			0/ B			1		01 "		
Dian	neter (mm)	R	emark	SS	Core -	l op (m)	Core Bas	<u>e (m)</u>	% Recovery	General Rer Windowless contaminatio	marks sample hole con	3.10  nplete at 5.45m radiological rea	bgl. No visual o	olfactory evic	dence of	asing
	Type  ES D(C)  D(C)  ES (C)	Type Result  ES .  D 4,5,4 3,4,4 N=15.  D 2,3,3 3,3,4 N=13.  C 1,1,1 N=4. ES .  (C) 1,0,1 2,1,2 N=6.  (C) 1,2,2 N=9.  Hole Diameter	ES . 0  D 4,5,4 (C) 3,4,4 N=15.  D 2,3,3 (C) 1,1,1 (C) 1,1,1 ES . 0  (C) 1,0,1 N=4. C) N=6.  C) 1,2,2 N=9.  Hole Diameter	Type	Type	Type   Test Result   Q   Q   Q   Q   Q   Q   Q   Q   Q	Type   Test Result   C   C   C   C   C   C   C   C   C	Type	Type   Test Result   Ca   Ca   Ca   Ca   Ca   Ca   Ca   C	Test Result	Type   Test   Q	Type	Type	Type    Test   Result   Result	Depth   Peter   Pete	Type   Test   Result   Type   Test   Result   Type   Typ

<b>WSP</b>		WINE	OOW SAMPLE		Hol	e No. <b>WS178</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 01-07-14 01-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pı	remier Tracker Compact 110	J Watson	E 389319.080 N 381699.290		88.580

SA	MPLE	S & TE	STS									STRAT	A				Insta Back
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)	Depth (Thick -ness)			D	escription			Legend	Geology	Dia 50 mm
0.00-0.20	ES						00.20	L ' I	Brov	vn silty fine SA	AND. (TOPSC	DIL)			7/1/N 7/1/	TS	
0.20-0.30	ES	•					88.38 88.03	_(0.35)	Brov	vn slightly clay	ey slightly sa	ndy SILT. (GL	ACIAL DEPO	SITS)	× × × ×	GDU	
_0.50-0.70 - - -	ES					<u>‡</u>	00.03	- 0.55		lium dense ligl POSITS)	ht brownish gi	rey fine and m	edium SAND.	(GLACIAL	× ×		
 _1.00 - -	(S)	1,0,2 3,3,4 N=12.						(1.00)								GDU	
· · -						<b>2</b> <u>−</u>	87.03	- 1.55 - -		se becoming r ACIAL DEPOS		e light pinkish	grey fine and	medium SAND.			
	(S)	1,1,1 1,1,1 N=4.						-									
- - -								- -(1.90) -								GDU	
	(S)	3,4,4 4,4,5 N=17.						- - -									
- -							85.13	- - 3.45		dow sample c							
		Diamete	_					Recov					Water	Strikes			_
Depth	Dian	neter (mm	R	emark	SS	Core <sup>-</sup>	Top (m)	Core Bas	se (m)	% Recovery	Date  General Ren Windowless s contamination	sample hole con	Strike 0.70 1.80  nplete at 3m bgl	Minutes  . No visual or olfar	Standing  ctory eviden	ce of	asing
Scal	le 1:37	.5		es: Al nual id				etres. Lo	ogs sh	nould be read i	Groundwater completion. I	encountered 0.7 Response zone	70m - 1.80m bg 1.0-3.0m bgl.	I. Windowless san	nple hole ins	talled upo	ın

<b>WSP</b>		WINE	OOW SAMPLE	LOG	Hol	e No. <b>WS179</b>
150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax:		Project	Woodford Aerodrome		She	eet 1 of 1
Job No 70004430		Client	Harrow Estates Plc		Da	te 03-07-14 03-07-14
Contractor / Driller	Ме	thod/Plant Used	Logged By	Co-Ordinates (NGR)		Ground Level (m AOD)
Dynamic Sampling Ltd	Pi	remier Tracker Compact 110	J Watson	E 389687.430 N 382085.290		85.230

SA	MPLE	S & TE						I D: "				STRAT	A				Inst Bac
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD)				Г	escription			Legend	Geology	Di 50 mi
					Ť		85.08	-ness) - 0.15	Soft	dark brown sl	ightly clayey	organic fine SA	ND. (TOPSO	IL)	71 1× 7/1 1	TS	
).30-0.40	ES						65.06	-	Orar	ngish brown m	edium to coa	rse slightly gra ous lithologies.			0		
						<b>1</b>		(1.05)								ALV	
.00-1.45	D (S)	1,1,1 1,2,1					84.03	1.20									
.20-1.40	ES	N=5.					83.63	- -(0.40) - 1.60	Soft	to firm low str	ength sandy	clayey amorph	ous PEAT.		<u> </u>	SUPD	
2.00-2.45	D (S)	3,4,5 5,4,5 N=19.							Med DEF	ium dense gre POSITS)	eenish grey n	nedium and coa	arse SAND. (0	GLACIAL		GDU	
.00-3.45	D					<b>2</b> <u>↓</u>	82.33 82.23	2.90	COIL			CLAY. (GLACIA			× ×	GDU	
.00-3.43	(S)	1,1,1 1,1,1 N=4.						- - - - - - - - - - - - - - - - - - -	Very	loose to loose	e brown sand	ly SILT. (GLAC	IAL DEPOSIT	ΓS)	× × × × × × × × × × × × × × × × × × ×	GDU	
.00	(S)	1,1,1 1,1,1 N=4.					80.78	- - - - 4.45	\A/:	dow sample c		45-ra had			× × × × × × × × × × × ×		20202 20202 20202
								-	VVIII	uow sample d	лпресе ас 4.	+om by					
	Hole	Diameter						Recov	very				Water	Strikes			
Depth	Dian	neter (mm)	R	emark	s (	Core 7	Гор (т)	Core Bas	se (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Ca	sing
											General Rei	marks	0.80 3.00				
											contaminatio Groundwater	sample hole com n observed. No r encountered at one 0.50m to 4m	adiological read 0.80 and 3.00n	lings above bacl	ground record	ded.	
	e 1:37	_	Note	es: All	dim	ensio	ns in me	etres I c	nge eh	ould be read i	n accordance	with the provi	dod Kov Dos	crintions are h	ased on visi	ıal and	

#### Hole No. **WINDOW SAMPLE LOG WS180** Sheet 150-182 The Quays M50 3SP Telephone: 0161 886 2400 Fax: Project Woodford Aerodrome 1 of 1 Job No Date Client 04-07-14 70004430 Harrow Estates Plc 04-07-14 Co-Ordinates (NGR) Contractor / Driller Method/Plant Used Logged By Ground Level (m AOD) E 390024.390 N 382420.700 **Premier Tracker Compact** Dynamic Sampling Ltd 87.080 S Weston

SA	MPLE	S & TE	STS									STRAT	A	·			Insta Back
Depth	Туре	Test Result	PID (ppmV)	HSV (kN/m2)	P.Pen (kN/m2)	Water	Elev. (mAOD) (Thick -ness)			Description					Legend	Geology	Dia mm
-							86.78	(0.30)		DE GROUND:	Brown slight	ly clayey slight	ly sandy SILT	. (TOPSOIL)		GMG	
- _0.30-0.60 - - -	ES							(0.70)		DE GROUND:	Firm brown	slightly gravelly	CLAY with o	ccasional ash.		CMG	
_ _1.00-1.45	D (S)	1,2,1 2,2,2					86.08	(0.30)	MAE	DE GROUND: to coarse ang	Soft and firm	grey slightly g	ravelly silty C	LAY. Gravel is		CMG	
1.00-1.30	ES	N=7.					85.78					y sandy CLAY.	(GLACIAL D	EPOSITS)		-	
1.50-1.80 - 2.00-2.45	ES D (S)	1,1,1 1,2,2 N=6.						- -(1.20)								GDU	
_ 3.00-3.45	D (S)	1,0,0 1,0,0				<u>‡</u>	84.58	2.50 - - - - - - - - - - - - - - - -	Brov	wn SILT. Becc	oming wet. (G	LACIAL DEPC	OSITS)		× × × × × × × × × × × × ×	GDU	LACE CACACA
		N=1.					83.63	- 3.45	Win	dow sample c	omplete at 3.	45m bgl			× × × ×		
-																	
Hole Diameter					Recovery				Water Strikes								
Depth	Diam	neter (mm)	R	emark	S	Core <sup>-</sup>	Top (m)	Core Bas	se (m)	% Recovery	Date  General Rei Windowless		Strike 2.70	Minutes  bol. No visual or	Standing  Olfactory evid		asing
Scal	e 1:37	.5		es: All				etres. Lo	ogs sh	nould be read	Windowless contaminatio Groundwater	sample hole con in observed. No r encountered at	radiological read 2.70m bgl. Hol	bgl. No visual or dings above back e backfilled upon acriptions are ba	ground recor completion.	ded.	

22													
Ö	Hole Diameter				Recovery		Water Strikes						
SE SE	Depth	Diameter (mm)	Remarks	Core Top (m)	Core Base (m)	% Recovery	Date	Time	Strike	Minutes	Standing	Casing	
OG WOODF									2.70				
Щ													
NDOW SAMPI							contamination	narks sample hole com n observed. No r encountered at	adiological read	ings above back	karound recorde		

## **Appendix D**

REMEDIATION / 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)
	Aliphatic C05-C06	78
	Aliphatic C06-C08	231
	Aliphatic C08-C10	65
	Aliphatic C10-C12	324
	Aliphatic C12-C16	2220
	Aliphatic C16-C35	69500
Aliphatics and Aromatics (TP	Aliphatic C35-C44	69500
CWG)	Aromatic C05-C07	145
0110)	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
	1,2,3-Trimethylbenzene	12
	1,2,4-Trimethylbenzene	12
	1,3,5-Trimethylbenzene	12
BTEX and Fuel Additives	Benzene	0.18
	Ethylbenzene	111
	Methyl t-butylether (MTBE)	108
	Toluene	296 133
	Xylene	2.8
	1,1,1,2-Tetrachloroethane	42
	1,1,1-Trichloroethane	3.5
	1,1,2,2-Tetrachloroethane 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
Chlorinated Aliphatics	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
	Arsenic	32
	Cadmium	12
	Chromium III	1590
	Hexavalent Chromium	4.5
	Copper	2490
Metals	Mercury	39
mouno	Mercury - Elemental	0.55
	Methyl Mercury	7.5
	Nickel	126
	Lead	134
	Selenium	258
	Zinc	3860
PAH	Benzo (a) pyrene #	1.6
	Naphthalene	5.6
	iso-Propylbenzene	37
VOC	n-Propylbenzene	111
	iso-Propylbenzene	37
DOD	n-Propylbenzene	111
PCB	Sum of 7 congeners	0.29

<sup>#</sup> 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** 



Revised: 24/05/2017



#### 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.
- 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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