urbanvision

Reddish North Primary School
Site Completion Report

August 2011

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1. Introduction

Urban Vision Partnership Ltd (UV) have been commissioned by BAM Construction Ltd to carry out verification of remedial works for the development of Reddish North Primary School and Children's Centre

The site is situated approximately 700m to the northeast of Reddish town centre, on land to the east of Harcourt Street and to the south of Mill Lane in North at National Grid Reference 389850 394050 (approx centre of site).

The site is approximately 1.8 hectares at an elevation of approximately 36.3 metres above ordnance datum (m AOD). The site is situated within a residential area.

The report is in support of a planning condition relating to a planning application number ref DC/024357 for the redevelopment of site as a primary school. A copy of the proposed development plan is presented in Appendix A1 (drawing number 7095-53-01-B).

The development comprises a primary school and children's centre with associated outdoor play areas and car parking to the northwest of the site. The majority of the play areas are on a asphalt surface, together with some turf and habitat areas. The remainder of the site comprises a recreation ground and public open space and a new line of tree planting along the southeast boundary of the primary school and children's centre.

Vehicle access to the site is from Mill Lane to the northeast with additional pedestrian access from Harcourt Street to the west and from the fishing pond at the south eastern corner of the site. The development incorporates the re-construction of a footpath from Harcourt Street to the south eastern corner of the site.

A Ground Investigation Report was carried out in 2006 by Greater Manchester Geological Unit (now part of Urban Vision Partnership). The Ground Investigation Report (Ref: UV/000174-01) was revised in October 2009 to ensure the recommendations were in line with current guidance and legislation.

A remediation strategy report (Ref: UV/000174-01) was produced in December 2009 to identify remedial measures necessary to ensure the development of the site is safe and suitable for use.

The verification work has been carried out in line with the recommendations made in the Remediation Strategy and in line with Stockport MBC Environmental Health's additional requirements.

2. Review of Previous Reports

2.1 Historical Review of the Site

The site historically comprised a clay pit (associated with a brick works located to the south of the site) which was subsequently in filled. The 1934 map shows the first possible evidence of tipping and by 1958 a refuse tip is shown on the site. Tipping was completed prior to the mid 1980s when the site is shown as a playing field.

2.2 Environmental Settings

British Geological Survey (BGS) digital data maps the drift deposits across the site as glacial till. The solid geology beneath the majority of the site is the Triassic Sherwood Sandstone Group deposits. The northeast corner of the site is underlain by Triassic Manchester Marls.

The Environment Agency Groundwater Vulnerability map (Sheet 17) shows that the majority of the site is underlain by principle classification (Sherwood Sandstones). The northeast corner is underlain by a secondary B classification (the negligibly permeable Manchester Marls).

As the site is in an urban area a worst-case vulnerability classification (HU) is assumed for the soil classification above the principle aquifer. This represents soils with little ability to attenuate diffuse source pollutants and in which non-adsorbed diffuse source pollutants and liquid discharges have the potential to move rapidly to underlying strata or to shallow groundwater.

The nearest surface water feature is the large pond to the southeast of the site. The nearest surface watercourse appears to be over 500m to the east.

2.3 Review of Ground Investigation

2.3.1 Intrusive Investigation

A ground investigation undertaken during December 2005 and January 2006 included excavation of four trial pits and four hand-dug trial holes, drilling of eleven cable percussion boreholes and three in-situ California Bearing Ratio tests. The investigation also included analysis of soil and water samples for contamination, laboratory geotechnical testing and gas and groundwater monitoring.

Made ground was found at thicknesses from 1.3m to 7.0m and comprised clay, sand and gravel in varying proportions. Gravel and cobble fragments frequently included ash, clinker, brick and concrete. Made ground was underlain by stiff to very stiff glacial till.

2.3.2 Risk Assessment

Compared to generic assessment criteria, benzo(a)pyrene was found to be elevated across the site. However, subsequent detailed quantitative risk assessment found that there was no risk to human health from benzo(a)pyrene.

Arsenic and lead across the site were found to be above the generic assessment criteria. Asbestos was also identified during the investigation at one location. Delineating excavations around this location identified no additional asbestos. However, assuming a worst case scenario, recognising the nature of the site as a former landfill, it was considered that isolated fragments could potentially be present within the site.

Limited concentrations of contamination were identified within groundwater and leachability results. However, the concentrations were not considered to present a risk to surface or groundwater.

No significant elevations of hazardous ground gases were identified.

2.4 Summary of Remediation Strategy

The remediation Strategy is presented in detail in UV/000174-01 December 2009. In summary, the remedial measures to be employed at the site comprises a cover system was recommended in all soft landscaping areas which will form a barrier from the made ground to the site users. The following were given as a minimum thickness of cover:

Topsoil minimum thickness 150mm
Subsoil minimum thickness 250mm
Geotextile membrane or capillary break layer of minimum thickness 100mm

Should there be excess suitable reclaimed topsoil available for use, there is no reason this could not be used instead of subsoil within the cover system as long as the total thickness of clean soils is a minimum of 400mm.

Site won Topsoil intended for re use should be stockpiled during excavations and subjected to verification testing.

The current proposals provided by BAM Construction Ltd (as presented in Appendix A1) are for a asphalt finish on the diverted public footpath, rolled stone path between the school grounds and the surrounding houses, and paving slabs around the car park areas and on internal paths.

The tarmac surface or 300mm of gravel or paving slabs will break the potential pollutant linkages identified. If there is a change to the design and the footpaths are not to be surfaced (i.e. to remain as grass) the cover system detailed for soft landscaping will be required.

2.5 Additional Remedial Measures based on Stockport MBC requirements

The remediation strategy was reviewed by Stockport MBC Environmental Health and they made the following recommendations:

- Due to the new guidance relating to radon protection measures, precautionary gas protection measures should be incorporated into the development which should include a Reinforced concrete cast *in situ* floor slab (suspended, non-suspended or raft) with at least 1200 g DPM^2. The membrane shall go across any cavity, with all joints and penetrations sealed in accordance with manufactures installation instructions. The installation of this membrane shall be subsequently validated during installation to ensure that the integrating of the membrane has been preserved throughout the slabs construction (validation for the membrane installation, shall be included in verification report for the site).

- Any site won materials intended for reuse on site shall be validated for their suitability, samples shall be screened against PAH derived guidance values and CLEA guidance values.

- Screened material found to suitable for use shall only be used as subsoil.

- All topsoil shall be imported to site and sampled prior to use.

- Throughout the installation of the cover system, soils shall be compacted during deposition in order to prevent settlement. The specification of the installed cover system shall be in accordance with the Remediation Strategy Report UV000174.

- The depth of the cover system shall be validated during installation, (validation of the cover depth shall be included as part of the verification report).
- Analytical documentation for any site won material as well as imported soils shall be included within the verification report for the site.

- The disposal of any contaminated material off site shall be supported with waste transfer documentation and shall be included within the verification report for the site.

3. Soil Remedial Targets

The soil remedial targets are based on soil guideline values (SGVs) published by the Environment Agency and generic assessment criteria (GACs) published by CIEH/LQM[1]. The residential with plant uptake assessment criteria were used based on an SOM of 1% sand. The assessment criteria values are shown in Table 3.1.

Contaminant	Assessment Criteria		Contaminant	Assessment Criteria	
	(mg/kg)	source		(mg/kg)	source
Arsenic	32	EA SGV	Acenaphthene	480	LQM GAC
Boron	291	LQM GAC	Fluorene	380	LQM GAC
Cadmium	10 / 3	EA SGV/LQM GAC	Phenanthrene	200	LQM GAC
Chromium (hex)	4.3	EA SGV	Anthracene	4900	LQM GAC
Chromium	130	EA SGV	Fluoranthene	460	LQM GAC
Copper	2330	LQM GAC	Pyrene	1000	LQM GAC
Lead	450	EA SGV	Benzo(a)anthracene	4.7	LQM GAC
Mercury	170	EA SGV	Chrysene	8	LQM GAC
Nickel	130	EA SGV	Benzo(b)fluoranthene	6.5	LQM GAC
Selenium	350	EA SGV	Benzo(k)fluoranthene	9.6	LQM GAC
Zinc	3750	LQM GAC	Benzo(a)pyrene	0.94	LQM GAC
Total Phenol	150	CLEA SGV	Indeno(1,2,3-cd)pyrene	3.9	LQM GAC
Naphthalene	3.7	LQM GAC	Dibenz(a,h)anthracene	0.86	LQM GAC
Acenaphthylene	400	LQM GAC	Benzo(ghi)perylene	46	LQM GAC

Table 3.1 Assessment Criteria used as Remedial Targets

In addition to the above, due to the presence of small amounts of asbestos on site, a remedial target has also been considered. Currently no specific asbestos guidance or assessment criteria for human health have been produced for the UK. Screening values available include 0.1% (UK hazardous waste), 0.01% (Netherlands Organisation for applied scientific research (TNO) 2005) and 0.001% (Australian Contaminated Land Consultants Associated Incorporated 2002). As a conservative approach, the 0.001% value will be used an initial remedial target. This has been agreed with Stockport MBC Environmental Health.

These target values have been used to compare all site won material and imported material for use within soft landscaping areas.

[1] Land Quality Management Ltd (LQM) /Chartered Institute of Environmental Health (CIEH). The LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment 2nd Edition 2009.

4. Verification of Site Won Material

As topsoil was to be stripped from the site as part of the development, the most practical use for this would be to re-use the soil on site therefore verification work to ensure the soil was suitable was carried out.

The verification of the site won material was carried out in a number of different stages based on the timings of the bulk excavation.

4.1 Verification of In-situ Soil (North)

Prior to the northern part of the site being stripped, Urban Vision carried out sampling of the topsoil whilst in-situ. The sampling was carried out using an approximate 25m^2 grid pattern. This sampling frequency was agreed with Stockport MBC with the proviso that further testing may be required depending on the findings of the results. The date of this sampling was 14th June 2010.

A plan showing the sampling locations is presented in Figure 2 within Appendix A. Full logs are presented in Appendix C. A total of 19 samples were taken from this area and referenced C01 to C19. The depth of the topsoil as well as a soil description was given for each location, a summary is given below:

- Approx depth: 0-0.1mbgl
- Soil description: brown slightly gravelly sandy SILT/CLAY to silty/clayey SAND with root fibres. Gravel is angular to rounded, fine to medium natural stone and occasional brick.

The estimated volume of this material is 1200m^3 (area of 12000m^2 and depth of 0.1m), this was smaller than originally anticipated due to the shallow topsoil identified.

At the same time as carrying out the testing in the northern part of the site four samples were also collected from the disused tennis courts. This was with a view to reuse the ground due to ecological importance. The sample locations for these are referenced C20 - C23.

The samples were tested for a standard suite of determinands. Results are provided in Appendix B.1 referenced QTS3124 and Report No. TN19881v0.

The results were compared to the assessment criteria shown in Section 4. Of the samples taken from the northern topsoil, C03 contained slightly elevated benzo(a)pyrene at 1.9mg/kg (LQM GAC 0.94mg/kg) however the mean concentration was 0.65mg/kg which is below the GAC. Given the GAC is overly conservative for this development there is likely to be a negligible risk with regards to the benzo(a)pyrene identified in this soil.

Asbestos was identified in C04 was found to contain asbestos. The asbestos was identified as chysotile bound in cement (See Report No TN19881v0. Appendix B.1). Topsoil from north was stripped and stockpiled, a visual inspection of the stockpile was carried out on *(28/06/10).*An additional 3 pieces of cement bound chrysotile asbestos were identified on site as well as a fibrous material which was later identified as insulation containing chrysotile and amosite (See Report No. TN20062v0 Appendix B.1).

4.2 Verification of Stockpiled Material (North and South)

Soil from south stripped and stockpiled with the soil from the north. Additional verification testing was carried out to ensure the soil was suitable for use. It was estimated that approximately 2700t of soil was stockpiled.

Forty-two soil samples (ref TS01 – TS42) were taken from the stockpile and tested for a standard suite of determinands. The results are presented in QTS Environmental Report No. 3891 in Appendix B.1.

The results were compared to the assessment criteria shown in Section 4. Of the forty-two samples, four samples contained slightly elevated benzo(a)pyrene at 0.96-2.30mg/kg (LQM GAC 0.94mg/kg) however, the mean concentration was 0.57mg/kg which is below the GAC. Given the GAC is overly conservative for this development there is likely to be a negligible risk with regards to the benzo(a)pyrene identified in this soil.

No asbestos was identified in any of the soil samples.

4.3 Asbestos Remedial Work Methodology

Due to the presence of small amounts of asbestos identified within the site won material, a remedial plan was proposed and agreed with Stockport MBC Environment Health. The remedial plan was produced by BAM Construction and is summarised below:

4.3.1 Treatment Options and Appraisal

The following options were considered for the de-contamination of the topsoil:

- **Screening**
  This was considered unsuitable as it could generate dust problems for the surrounding properties and it could be suggested that wind blown dust might be contaminated. Furthermore, the screening process would not remove pieces smaller than the size of a 10p/50p coin and could not be progressed unless the material was absolutely dry.
- **Hand picking from a conveyor belt, fed by an excavator**
  This was considered to be unacceptably slow.
- **Hand picking from the material after spreading by Dozer**
  It is considered that material spread by dozer would be too thick to be effectively picked. In addition a significant proportion of the spread material would be tracked-in behind the blade. Use of the dozer in combination with a hand picking exercise would not be economic solution.
- **Hand picking from the material after spreading by excavator**
  Hand picking from material distributed by excavator is considered to provide the greatest control of material depth for effective picking. This methodology was chosen.

4.3.2 Method of Working

An area was prepared using a 360 excavator. And topsoil was spread over the geotextile membrane. Hand picking was undertaken by JC Asbestos (a licensed asbestos removal contractor) with any suspect material recovered bagged for safe disposal.

Segregation was provided between the separate areas occupied by the pickers and the excavator with crowd barrier fencing.

The process was repeated with the topsoil built up in layers to form the sub-soil element of the remediation cover.

4.3.3 Validation of Remedial Work

Once the above picking had been carried out additional testing was undertaken to ensure that the remedial work had been successful. A sampling frequency based on a 20m^2 grid pattern was agreed with Stockport MBC. This allowed for 30 samples to be tested.

A 500g soil sample was collected and sent to WSP Laboratories for analysis. Analysis included a screen for asbestos, if the screen identified asbestos the weight of the asbestos per weight of soil was calculated.

Where unacceptable concentrations of asbestos were identified, the area was re-picked and further testing undertaken.

The work was carried out in two phases (Phase 1 and 2). The phases and sampling locations can be viewed in Figure 3 Appendix A. Sample locations SS01-SS30 are based on the 20m^2 grid pattern. Sample locations SS31-46 are the samples taken following additional remedial work.

4.4 Remediation and Verification Work Phase 1

Phase 1 included the southern area of the site and the eastern area of the football pitch. Following the picking work, samples were collected and screened for asbestos. All the samples tested in the southern area found no asbestos. Sample SS13 from the eastern area contained asbestos therefore additional quantification testing was undertaken. The results of the tests are presented in Report No. 12199785/001 Appendix B.2.

SS13 was found to contain asbestos as shown below. 0.2268g of chrysotile within a 506.56g sample (0.04%). The asbestos formed the paper backing to a floor tile and is summarised below in Table 4.1:

Sample Ref	Asbestos ID	Asbestos Form	Weight Sample (g)	Weight Asbestos (g)	%
SS13	Chrysotile	Paper backing to floor tile	506.56	0.2268	0.04

Table 4.1 Phase 1 quantification testing results

Additional picking was carried out around the area of SS13. Following this additional picking further sampling was carried out, four samples around SS13 (SS31-SS34) and four samples around and randomly selected point (SS35-SS38). No further asbestos was identified within these samples. The laboratory results are presented in Report No. 12199853/001 Appendix B.1

4.5 Remediation and Verification Work Phase 2

Phase 2 included the central area of the site and the western area of the football pitch. Following asbestos picking, samples were taken and screened for asbestos. Asbestos was identified in four samples therefore quantification tests were carried out. Results are presented in Report No. 12199908/001 Appendix B.2 and summarised below in Table 4.2:

Sample Ref	Asbestos ID	Asbestos Form	Weight Sample (g)	Weight Asbestos (g)	%
SS06	Chrysotile	Insulation	466.34	0.0009	0.00019
SS11	Chrysotile	Insulation	505.11	0.0011	0.00022
SS12	Amosite & Chrysotile	Insulating board	490.08	0.19836	0.04048
SS20	Chrysotile	Free fibre & Insulation	477.1	0.0104	0.00218

Table 4.2 Phase 2 quantification testing results

Further picking was carried out due to the identification of the asbestos in the above samples.

4.6 Validation of Phases 1 and 2

After Phase 1 and 2 had undergone further picking eight further samples were collected, four from Phase 1 and four from Phase 2 and screened for asbestos. Asbestos was identified in one sample and therefore a quantification tests was carried out. Results are presented in Report No. 12199908/001 Appendix B.2 and summarised below in Table 4.3:

Sample Ref	Asbestos ID	Asbestos Form	Weight Sample (g)	Weight Asbestos (g)	%
SS43	Chrysotile	Free fibre	486.02	0.0033	0.00068

Table 4.3

4.7 Suitability of Site Won Material

The results of the verification testing show that the site won topsoil is suitable for re-use. Although small amounts of asbestos were identified in the first stage of verification testing, following additional re-picking of the soil only 1 sample contained minor amounts of asbestos. Although there may be small amounts remaining in the soil the concentration is expected to be a negligible risk.

With respect to asbestos, in total 49 validation tests have been undertaken. Of these, 6 samples recorded an asbestos concentration, 4 samples recorded free fibres and 2 samples recorded asbestos as asbestos containing materials (ACM).

To determine a value that may be considered representative of the site won soils taking a conservative average total sample weight of 489g gives a total weight of soil tested of 22491grams with a total recorded asbestos weight of 0.44 grams. Therefore, taking the total weight of asbestos as a percentage of the total weight of soil it may be reasonable to surmise that the site won soils may contain a representative asbestos content of 0.002%w/w.

Examining the proportion of asbestos comprising free fibres and ACM in accordance with the Western Australian Government guidance, when considering the total weight of free fibres and ACM in relation to total sample weight a representative value is calculated of 0.0001% w/w for free fibres and 0.002% w/w for ACM.

In comparison to the available guideline values the site won soils value of 0.002%w/w fall significantly below the UK value for hazardous waste of 0.1% and the Dutch screening value of 0.01% calculated to be protective of human health. In accordance with the Western Australian guidance the calculated concentrations for free fibres and ACM both fall significantly below the guideline values of 0.001% w/w and 0.01% w/w respectively.

Additionally, as part of the remedial strategy an additional amount of soils are required to be imported and placed over the site won soils. In total approximately 1900m^3 of site won soils have been utilised over the southern area of the site. To bring levels up to the agreed depth, approximately 2875m^3 of imported soil are required.

The imported soils will effectively cover the site won soils with an approximate depth of 0.25m, thereby preventing exposure to the small amounts of asbestos within the site won soils.

However, assuming a potential worst case scenario of complete mixing of the site won soils and imported soils it is possible to calculate a worst case percentage of asbestos that may result in the capping layer.

Assuming a bulk density of 1.4g/cm^3 for the soils and a percentage asbestos content for the site won soils of 0.002% and a percentage asbestos content for the imported soils of 0%. On complete mixing the overall percentage asbestos in the upper 400mm of 0.00087% is calculated, significantly below the most conservative screening value of 0.001%.

In addition, once completed the site will be fully vegetated, therefore, the potential for asbestos fibres to be released to atmosphere will be reduced even further.

5. Verification of Imported Soils

All the soils analysed from the imported material within the pitches, landscaping and gardens were compared to the above remedial targets. These can be viewed in Appendix D. A plan showing the locations of sampling and depth validation is presented in Figure 4, Appendix A.

5.1 Southern Park Area

In November 2010 a 1000t of soil was brought on to site for use within the southern area of the site. 220t were sourced from a site in Astley and a further 780t from a school in Bolton. Urban Vision had previously carried out an investigation at this school and found the soil to contain no contaminants of concern. The soil lay over natural soils with no made ground encountered.

Two sample loads from Astley were brought on to site for an inspection of the material. The soil was found to be a sandy clay with gravel of brick and ceramics. Two samples were taken (IT1 and IT2) from the stockpiled soil and tested for a standard suite of determinands. When compared to assessment criteria no elevated contaminants were identified.

The material from Astley is brownfield and so a sampling strategy of 1 sample per 50m^3 was under taken and a further 2 samples (IT3 and IT4) were also collected from the stockpile. Given the known source and nature of the soil from the Bolton site, a sampling strategy of 1 sample per 200m^3 was undertaken and 3 samples (IT5-IT7) were taken from the stockpile for laboratory analysis. The soil from Bolton was sandy clay with occasional gravel of brick and sandstone.

After collection the additional 5 samples (IT3-IT7) were tested against a standard suite of determinands. When compared to assessment criteria none were found to be elevated. The soils were deemed suitable for use and were then spread across the southern section of site.

5.1.1 Validation of Depth

Validation of the depth of the subsoil and topsoil was undertaken in August 2011 by hand dug pit (SV20-SV28). The topsoil varied in thickness between 250mm in the centre of area to 150mm on the edges. The subsoil varied between 530mm in the centre of area to 130mm towards the edges and was underlain by a membrane. The total thickness of the imported soil was between 280mm and 780mm with a general thickness of 400mm or greater. The cover complies with the remedial strategy of 400mm and so no further assessment is required.

5.2 Remainder of Site

In July 2011 material was imported for use in the cover system of the football pitch, remaining park area and landscaping. Approximately 1700t of topsoil was imported for use across site and 900t of sand for use in the football pitch to assist in drainage. The topsoil comprised a PAS100 (2005) certified compost mixed with sand. The sand was sourced from a quarry and supplied by Tarmac. The PAS100 certificate is presented in Appendix B.

Sampling and the verification of depth of material was undertaken by means of hand dug pits across the football pitch and areas within the park which had been covered. Samples were also taken from the stockpiled material.

15 samples of topsoil and 8 samples of the sand were taken for laboratory analysis. They were then tested against a standard suite of determinands. When compared to assessment criteria one determinand had a slight elevation of lead in one sample, SV19 at 485.6mg/kg, above the assessment criteria of 450mg/kg. SV19 was taken form a stockpile of the imported topsoil.

Statistical analysis of the results gave an upper confidence limit at the 95th percentile for lead of 198.6 mg/kg, well below the assessment criteria. A summary of the statistical analysis is presented in Appendix C.2.

5.2.1 Validation of Depth

Validation of the thickness of subsoil was undertaken during sampling for asbestos analysis of the subsoil post spreading. The thickness of the subsoil varied between 100mm and 450mm but was generally 200mm or greater. The subsoil thinned out on the edges of site where the cover system connected with bordering sites and a gentle gradient was required.

The depth of the topsoil in the football pitch area was validated during sample collection in July 2011 by hand dug pits (SV5-SV17) and generally consisted of 100mm of sand over 200mm of topsoil. The sand was to be mixed in with the topsoil to improve drainage of the pitch area. The depth of the imported material within the pitch area was between 220mm and 310mm.

In August 2011 the depth of imported topsoil was verified within the landscaping of the school (SV29-SV35). The school was built on 300mm of clean imported stone chippings. Within the play areas a membrane was laid and topsoil placed on top. Within the car park landscaping topsoil was placed directly on top of the stone capping layer. The topsoil was between 250mm in small areas of landscaping and 500mm thick in larger north west grassed play area.

The remediation strategy requires a cover system of subsoil and topsoil to a thickness of 400mm. Within the sports pitch area there is an average of 500mm. Within the landscaping there is an average of 300mm topsoil over 300mm of stone. This adequately meets the requirements of the remediation strategy.

Photographs validating the depth of the imported soil are presented in Appendix E.

6. Additional Verification Work

6.1 Gas Protection Measures

As a precautionary measure against potential Radon ingress, the following have been included in accordance with the requirements of SMBC:

- Reinforced concrete cast in situ floor slab
- Visqueen Radon membrane
- All joints, penetrations and service entries overlapped and double tape sealed.

The membrane provides protection against carbon dioxide, radon, acts as a damp proof membrane and has high resistance to puncture. The thickness of the membrane is 500 microns / 2000 gauge. The installation was carried out in accordance with the manufacturer's specifications.

The gas membrane was verified by Urban Vision during the period of 18th August to the 29th September 2010. Photographs of the membrane and floor slab can be viewed in Appendix E.

6.2 Water Supply Pipes

The water supply pipes were laid within a trench filled with imported gravel. The type of pipe used is protector line.

7. Conclusions

The construction of the new primary school has included remedial work as recommended in the Remediation Strategy and in line with additional recommendations made by Stockport Borough Council Environmental Health Team.

All the remediation work has been verified and has been demonstrated to be in accordance with the agreed remedial strategy.

Appendix A Figures

KEY

- Proposed bit- mac surface for play / access
- Turf and mounding
- Wet Pour Surfacing
- Benches / Picnic tables
- Pencil posts
- Willow den
- Proposed habitat and nature area with seating
- Play hut
- Surface sports and play markings
- Jet play unit
- Ship play unit
- Tree planting
- Trike track with markings
- Climbing unit on safe surfacing
- Planters
- Trim trail
- Play panels
- Meadow grass
- Toadstool seating
- Stage with associated markings
- Kickabout area with low log wall fence and goal wall
- Rolled stone path
- Bow top fencing and access
- Boundary fencing
- MUGA
- Access route
- Improved path route through Recreation Ground
- Remediation planting to Recreation Ground
- Shooters with associated markings
- Approximate Line of Ownership / fencing to pond area
- New drained sports pitch to Recreation Ground
- Artificial turf
- Sail Canopy with bark chip surfacing and 2 benches underneath
- Access Ramp. To DDA requirements. To integrate as part of retaining structure.
- Cover system required (unless tarmac)

HEALTH AND SAFETY INFORMATION

No hazards, that would not usually be foreseen by a reasonably competent contractor, have been identified by the designer .

rev	description	date	drawn	chk	app

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client
BAM CONSTRUCTION LTD

project
REDDISH NORTH PRIMARY SCHOOL AND CHILDREN'S CENTRE - REMEDIATION STRATEGY

drawing
COVER SYSTEM REQUIREMENT (BASED ON DRAWING NO. 7095-53-01-B)

approval status
- ○ Feasibility / Sketch
- ● Design
- ○ Tender
- ○ Construction
- ○ As Built

date 30/11/2009
drawn DJW
checked NH
approved NH

project ref. UV/000147
scale @ A1 1:500
drawing number Appendix A3
revision D01

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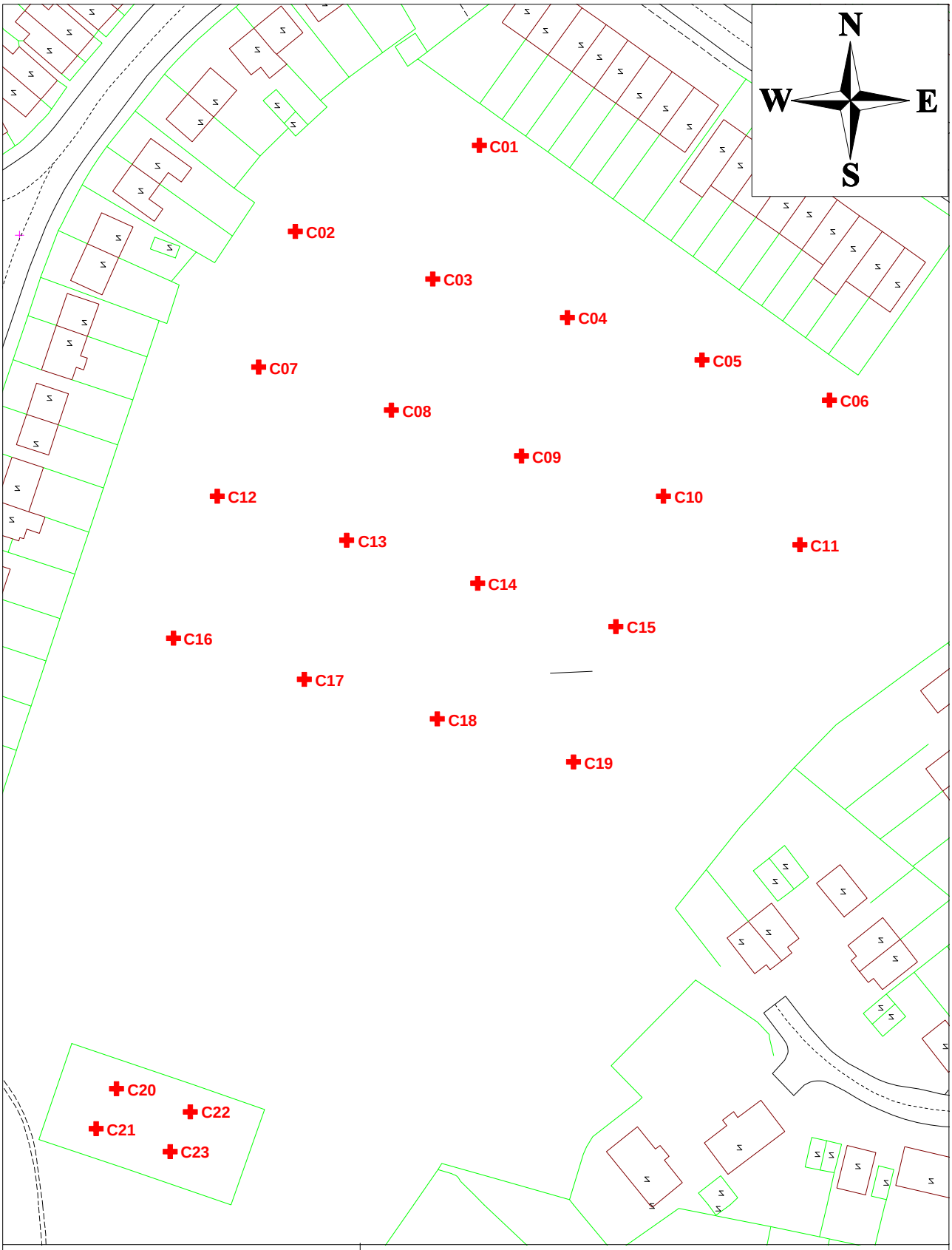

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Figure 2
Pre Strip Soil Sampling Plan
Reddish North Primary School and Childrens Centre, Stockport

Date: July 2011
Scale: 1:1000 @A4
Client: BAM Construction Ltd
Job Ref: UV/000174

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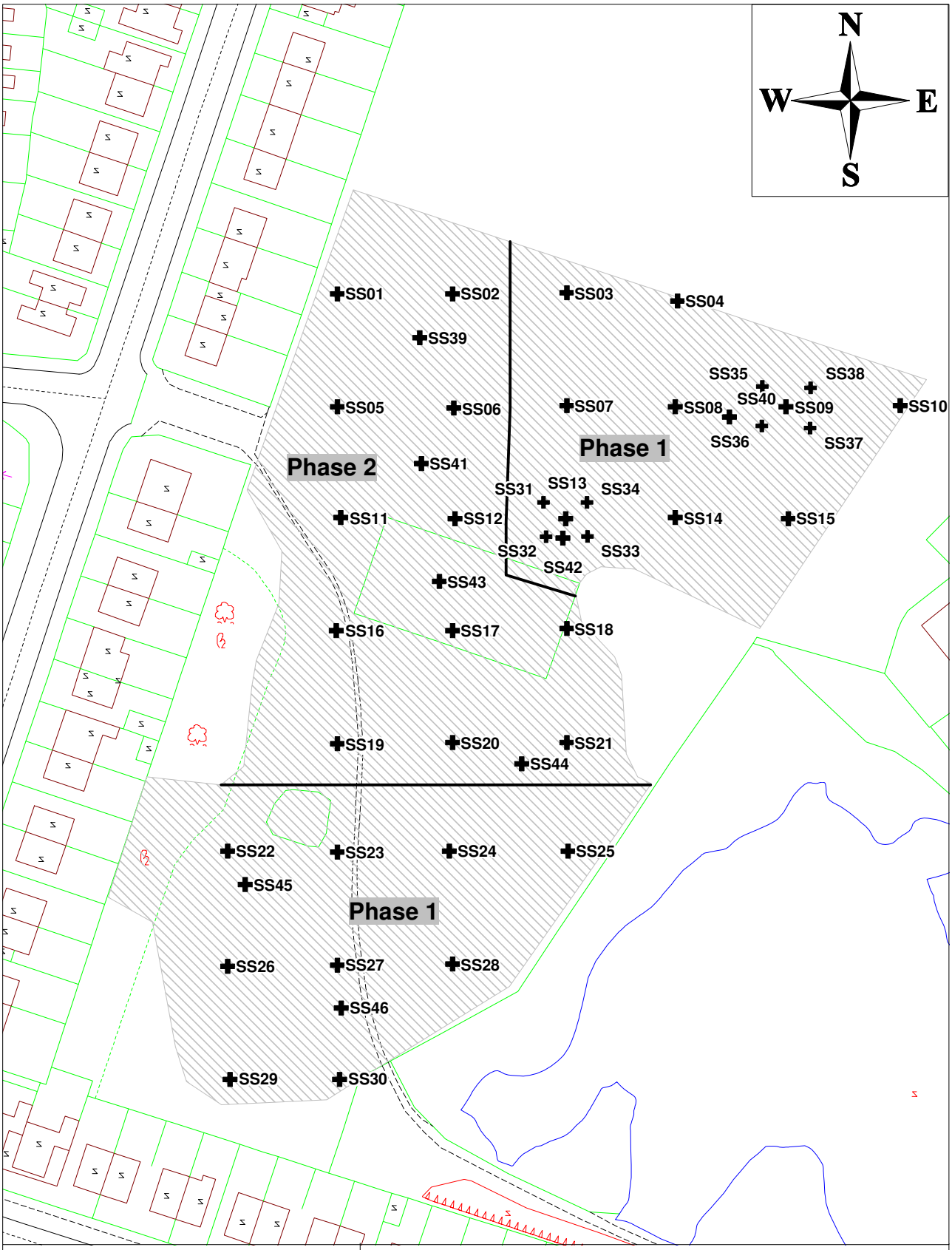

Urban Vision Partnership LTD
Environment Team
Emerson House,
Albert Street,
Eccles,
Salford,
M30 0TE

Figure 3
Subsoil (site won topsoil) Verification
Reddish North Primary School
and Childrens Centre, Stockport

Date: July 2011
Scale: 1:1000 @A4
Client: BAM Construction Ltd
Job Ref: UV/000174

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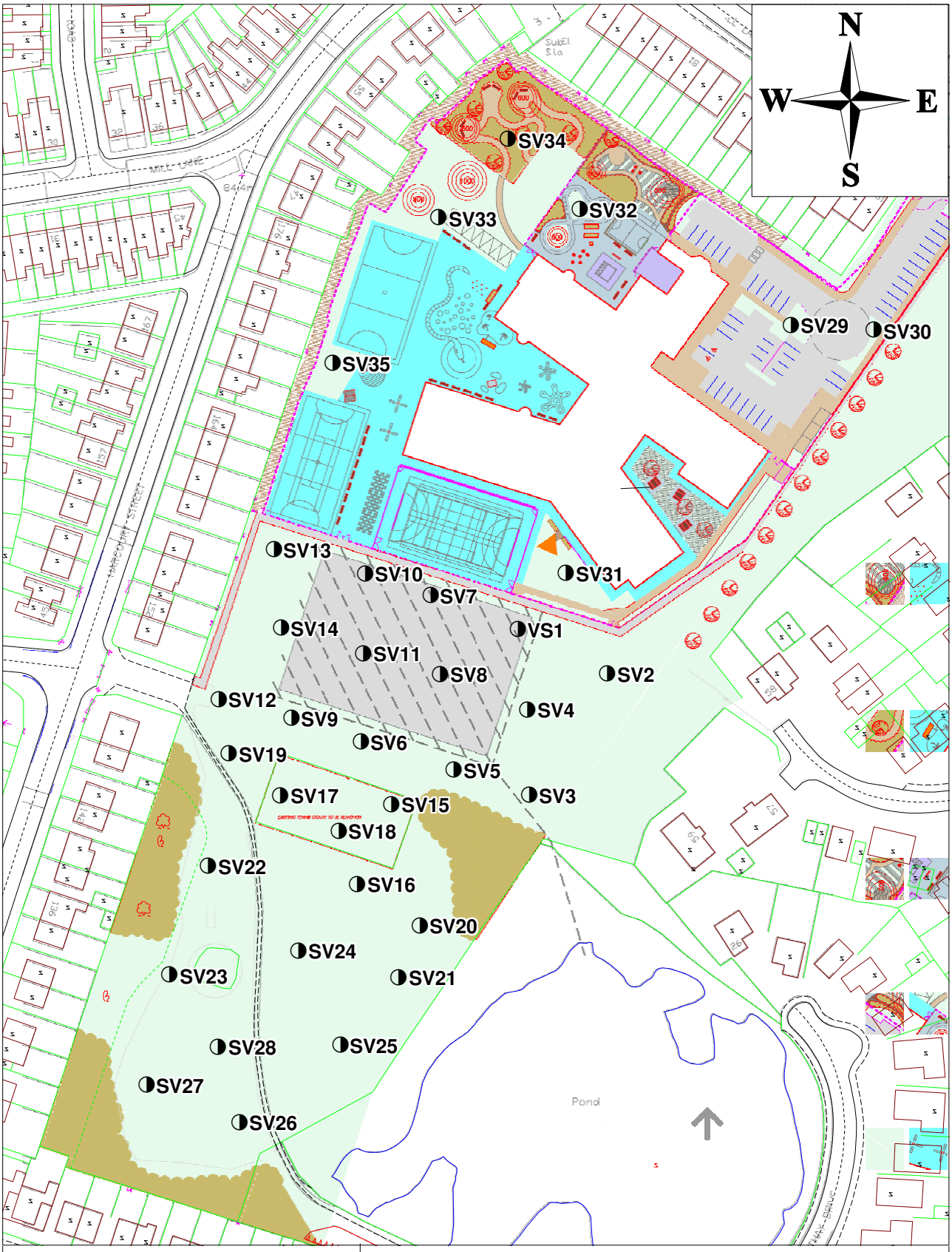

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Eccles,
Salford,
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Figure 4
Topsoil Verification Plan
Reddish North Primary School and Childrens Centre, Stockport.

Date: August 2011
Scale: 1:1,400 @A4
Client: BAM Construction Ltd
Job Ref: UV/000174

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Appendix B Site Won Laboratory Analysis

B.1 Chemical Testing

B.2 Asbestos Testing

Catherine O'Donnell
Urban Vision Partnership Ltd
Environment - 3rd Floor
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Manchester M30 0TE

4480 4480

QTS Environmental Ltd
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t: 01622 851105
admin@qtsenvironmental.com

QTS Environmental Report No: 3124

Site Reference: Reddish North Primary School

Project / Job Ref: UV/000174.02

Order No: None Supplied

Sample Receipt Date: 15/06/10

Sample Scheduled Date: 15/06/10

Report Issue Number: 1

Reporting Date: 21/06/2010

Authorised by:

Russell Jarvis
Director
On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
Director
On behalf of QTS Environmental Ltd

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Soil Analysis Certificate							
QTS Environmental Report No: 3124	**Date Sampled**	14/06/10	14/06/10	14/06/10	14/06/10	14/06/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	C01	C02	C03	C04	C05
Project / Job Ref: UV/000174.02	**Additional Refs**	C1	C1	C1	C1	C1
Order No: None Supplied	**Depth (m)**	GL - 0.20	GL - 0.20	GL - 0.20	GL - 0.20	GL - 0.15
Reporting Date: 21/06/2010	**QTSE Sample No**	11971	11972	11973	11974	11975

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	66	21.9	<0.1	<0.1
Moisture Content	%	<0.1	NONE	10.5	4.4	7.9	9.8	10.6
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Positive	Negative

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	7.5	7.2	7.2	7.3	7.2
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	606	323	697	495	671
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	374	<200	320	317	394
Organic Matter	%	<0.1	NONE	3.4	1.8	0.5	4	5.7
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.020	0.011	0.003	0.023	0.033
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	10	2	7	8	8
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	MCERTS	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	MCERTS	23	7	17	21	20
Copper (Cu)	mg/kg	<4	MCERTS	52	12	43	44	53
Lead (Pb)	mg/kg	<3	MCERTS	82	25	72	89	100
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	MCERTS	21	6	16	20	19
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	MCERTS	98	29	69	94	130

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
Analysis carried out on the dried sample is corrected for the stone content
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample

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Soil Analysis Certificate							
QTS Environmental Report No: 3124	**Date Sampled**	14/06/10	14/06/10	14/06/10	14/06/10	14/06/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	C06	C07	C08	C09	C10
Project / Job Ref: UV/000174.02	**Additional Refs**	C1	C1	C1	C1	C1
Order No: None Supplied	**Depth (m)**	GL - 0.10	GL - 0.20	GL - 0.20	GL - 0.50	GL - 0.15
Reporting Date: 21/06/2010	**QTSE Sample No**	11976	11977	11978	11979	11980

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	24.7	<0.1	<0.1	<0.1	<0.1
Moisture Content	%	<0.1	NONE	10.9	10.2	12	11.9	13.4
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	6.9	6.8	6.9	6.7	6.9
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	686	570	525	386	699
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	444	353	327	314	420
Organic Matter	%	<0.1	NONE	4.5	4.3	3.1	3.4	5.4
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.026	0.025	0.018	0.020	0.031
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	6	8	8	8	7
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	MCERTS	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	MCERTS	16	23	22	20	19
Copper (Cu)	mg/kg	<4	MCERTS	39	47	41	35	45
Lead (Pb)	mg/kg	<3	MCERTS	64	126	108	84	76
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	MCERTS	15	20	27	19	17
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	MCERTS	106	101	90	81	121

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
Analysis carried out on the dried sample is corrected for the stone content
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample

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Soil Analysis Certificate							
QTS Environmental Report No: 3124	**Date Sampled**	14/06/10	14/06/10	14/06/10	14/06/10	14/06/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	C11	C12	C13	C14	C15
Project / Job Ref: UV/000174.02	**Additional Refs**	C1	C1	C1	C1	C1
Order No: None Supplied	**Depth (m)**	GL - 0.15	GL - 0.15	GL - 0.20	GL - 0.20	GL - 0.20
Reporting Date: 21/06/2010	**QTSE Sample No**	11981	11982	11983	11984	11985

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	<0.1
Moisture Content	%	<0.1	NONE	10.9	12.6	11.1	12.9	15.4
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	6.7	6.6	6.7	6.7	6.7
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	662	628	581	470	498
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	414	365	288	311	343
Organic Matter	%	<0.1	NONE	3.4	3.2	2.7	1.4	4.4
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.020	0.019	0.015	0.008	0.026
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	9	8	8	8	7
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	MCERTS	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	MCERTS	23	22	21	19	20
Copper (Cu)	mg/kg	<4	MCERTS	60	52	44	144	40
Lead (Pb)	mg/kg	<3	MCERTS	93	93	92	145	93
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	MCERTS	22	19	18	19	18
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	MCERTS	146	107	87	110	94

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
Analysis carried out on the dried sample is corrected for the stone content
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Soil Analysis Certificate							
QTS Environmental Report No: 3124	**Date Sampled**	14/06/10	14/06/10	14/06/10	14/06/10	14/06/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	C16	C17	C18	C19	C20
Project / Job Ref: UV/000174.02	**Additional Refs**	C1	C1	C1	C1	C1
Order No: None Supplied	**Depth (m)**	GL - 0.15	GL - 0.15	GL - 0.20	GL - 0.10	GL - 0.15
Reporting Date: 21/06/2010	**QTSE Sample No**	11986	11987	11988	11989	11990

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	<0.1
Moisture Content	%	<0.1	NONE	13	11.6	16.2	15	13.8
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	6.6	6.5	6.6	6.4	6.6
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	548	351	668	646	1353
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	409	365	404	347	765
Organic Matter	%	<0.1	NONE	5	3.3	4.4	6.4	4.3
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.029	0.019	0.025	0.037	0.025
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	9	6	7	6	57
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	MCERTS	0.5	<0.5	<0.5	<0.5	1.6
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	MCERTS	23	20	18	14	40
Copper (Cu)	mg/kg	<4	MCERTS	97	38	63	71	465
Lead (Pb)	mg/kg	<3	MCERTS	188	110	127	95	1056
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	MCERTS	21	16	17	13	83
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	MCERTS	142	82	118	78	691

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{O}C
Analysis carried out on the dried sample is corrected for the stone content
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Soil Analysis Certificate							
QTS Environmental Report No: 3124	**Date Sampled**	14/06/10	14/06/10	14/06/10		
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: Reddish North Primary School	**TP / BH No**	C21	C22	C23		
Project / Job Ref: UV/000174.02	**Additional Refs**	C1	C1	C1		
Order No: None Supplied	**Depth (m)**	GL - 0.10	GL - 0.10	GL - 0.10		
Reporting Date: 21/06/2010	**QTSE Sample No**	11991	11992	11993		

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1		
Moisture Content	%	<0.1	NONE	19.2	9.1	16.1		
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative		

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	6.7	6.7	6.6		
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2		
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2		
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3		
Total Sulphate as SO_4	mg/kg	<200	NONE	1493	<200	1470		
Sulphide	mg/kg	<5	NONE	<5	<5	<5		
Total Sulphur	mg/kg	<200	NONE	723	<200	876		
Organic Matter	%	<0.1	NONE	2.5	0.9	0.2		
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.014	0.005	0.001		
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2		

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	67	<2	69		
W/S Boron	mg/kg	<1	NONE	<1	<1	1.2		
Cadmium (Cd)	mg/kg	<0.5	MCERTS	2	<0.5	1.9		
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2		
Chromium (Cr)	mg/kg	<2	MCERTS	45	24	41		
Copper (Cu)	mg/kg	<4	MCERTS	578	51	554		
Lead (Pb)	mg/kg	<3	MCERTS	1172	15	964		
Mercury (Hg)	mg/kg	<1	NONE	2.9	<1	1.2		
Nickel (Ni)	mg/kg	<3	MCERTS	102	106	100		
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3		
Zinc (Zn)	mg/kg	<3	MCERTS	1055	51	887		

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{O}C
Analysis carried out on the dried sample is corrected for the stone content
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample

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Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3124	**Date Sampled**	14/06/10	14/06/10	14/06/10	14/06/10	14/06/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	C01	C02	C03	C04	C05
Project / Job Ref: UV/000174.02	**Additional Refs**	C1	C1	C1	C1	C1
Order No: None Supplied	**Depth (m)**	GL - 0.20	GL - 0.20	GL - 0.20	GL - 0.20	GL - 0.15
Reporting Date: 21/06/2010	**QTSE Sample No**	11971	11972	11973	11974	11975

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	0.15	0.16	0.14	<0.1	0.17
Acenaphthylene	mg/kg	<0.1	MCERTS	0.12	0.11	0.16	<0.1	0.13
Acenaphthene	mg/kg	<0.1	NONE	0.12	0.19	0.26	<0.1	0.11
Fluorene	mg/kg	<0.1	MCERTS	0.13	0.17	0.23	<0.1	0.15
Phenanthrene	mg/kg	<0.1	MCERTS	0.57	1.01	1.80	0.37	0.73
Anthracene	mg/kg	<0.1	NONE	0.28	0.35	0.64	0.22	0.32
Fluoranthene	mg/kg	<0.1	MCERTS	0.72	1.23	3.60	0.47	0.98
Pyrene	mg/kg	<0.1	MCERTS	0.71	1.07	3.41	0.47	0.95
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.53	0.68	1.91	0.43	0.61
Chrysene	mg/kg	<0.1	MCERTS	0.41	0.58	1.94	0.24	0.46
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.55	0.67	1.87	0.46	0.62
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.31	0.31	1.54	<0.1	0.21
Benzo(a)pyrene	mg/kg	<0.1	NONE	0.51	0.64	1.90	0.35	0.45
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.44	0.48	0.98	0.37	0.45
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	0.57	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.31	0.42	0.97	0.27	0.35
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	5.87	8.08	21.93	3.67	6.71

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

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Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3124	**Date Sampled**	14/06/10	14/06/10	14/06/10	14/06/10	14/06/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	C06	C07	C08	C09	C10
Project / Job Ref: UV/000174.02	**Additional Refs**	C1	C1	C1	C1	C1
Order No: None Supplied	**Depth (m)**	GL - 0.10	GL - 0.20	GL - 0.20	GL - 0.50	GL - 0.15
Reporting Date: 21/06/2010	**QTSE Sample No**	11976	11977	11978	11979	11980

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	0.12	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	0.12	<0.1	<0.1	0.11
Acenaphthene	mg/kg	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	0.12	0.11	<0.1	<0.1	0.12
Phenanthrene	mg/kg	<0.1	MCERTS	0.58	0.46	0.36	0.36	0.71
Anthracene	mg/kg	<0.1	NONE	0.27	0.24	0.20	0.21	0.31
Fluoranthene	mg/kg	<0.1	MCERTS	0.77	0.57	0.38	0.47	0.76
Pyrene	mg/kg	<0.1	MCERTS	0.74	0.54	0.37	0.47	0.68
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.54	0.47	0.38	0.43	0.48
Chrysene	mg/kg	<0.1	MCERTS	0.41	0.31	0.19	0.26	0.29
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.54	0.85	0.45	0.46	0.48
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.19	0.35	<0.1	<0.1	0.18
Benzo(a)pyrene	mg/kg	<0.1	NONE	0.47	0.42	0.34	0.31	0.35
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.41	0.36	0.37	0.39	0.39
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	0.42	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.34	0.30	0.26	0.29	0.31
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	5.50	5.53	3.29	3.65	5.17

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

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4480 **4480**

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3124	**Date Sampled**	14/06/10	14/06/10	14/06/10	14/06/10	14/06/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	C11	C12	C13	C14	C15
Project / Job Ref: UV/000174.02	**Additional Refs**	C1	C1	C1	C1	C1
Order No: None Supplied	**Depth (m)**	GL - 0.15	GL - 0.15	GL - 0.20	GL - 0.20	GL - 0.20
Reporting Date: 21/06/2010	**QTSE Sample No**	11981	11982	11983	11984	11985

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	0.14	<0.1	0.12	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	0.12	<0.1	0.11	0.12	<0.1
Acenaphthene	mg/kg	<0.1	NONE	0.12	<0.1	0.28	0.11	<0.1
Fluorene	mg/kg	<0.1	MCERTS	0.14	<0.1	0.21	0.14	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	0.71	0.39	1.23	0.58	0.37
Anthracene	mg/kg	<0.1	NONE	0.31	0.23	0.43	0.27	0.21
Fluoranthene	mg/kg	<0.1	MCERTS	1.05	0.47	1.52	0.90	0.39
Pyrene	mg/kg	<0.1	MCERTS	1.02	0.46	1.36	0.91	0.40
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.68	0.42	0.77	0.60	0.39
Chrysene	mg/kg	<0.1	MCERTS	0.57	0.23	0.71	0.61	0.21
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.64	0.50	0.69	0.65	0.45
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.37	<0.1	0.40	0.33	<0.1
Benzo(a)pyrene	mg/kg	<0.1	NONE	0.53	0.35	0.70	0.54	0.27
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.43	0.38	0.48	0.46	0.38
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	0.46	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.35	0.28	0.39	0.42	0.25
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	7.20	3.70	9.85	6.65	3.32

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

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4480 4480

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3124	**Date Sampled**	14/06/10	14/06/10	14/06/10	14/06/10	14/06/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	C16	C17	C18	C19	C20
Project / Job Ref: UV/000174.02	**Additional Refs**	C1	C1	C1	C1	C1
Order No: None Supplied	**Depth (m)**	GL - 0.15	GL - 0.15	GL - 0.20	GL - 0.10	GL - 0.15
Reporting Date: 21/06/2010	**QTSE Sample No**	11986	11987	11988	11989	11990

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	0.11	<0.1	0.12	<0.1	0.30
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	0.14
Acenaphthene	mg/kg	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	0.12	<0.1	0.14	<0.1	0.14
Phenanthrene	mg/kg	<0.1	MCERTS	0.54	0.29	0.62	0.60	0.73
Anthracene	mg/kg	<0.1	NONE	0.26	0.19	0.29	0.28	0.31
Fluoranthene	mg/kg	<0.1	MCERTS	0.63	0.28	0.85	0.76	1.07
Pyrene	mg/kg	<0.1	MCERTS	0.61	0.28	0.83	0.72	1.01
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.47	0.33	0.58	0.54	0.73
Chrysene	mg/kg	<0.1	MCERTS	0.34	0.13	0.45	0.40	0.71
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.59	0.41	0.59	0.58	0.72
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.18	<0.1	0.17	0.16	0.42
Benzo(a)pyrene	mg/kg	<0.1	NONE	0.42	0.23	0.52	0.43	0.74
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.40	<0.1	0.44	0.44	0.50
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.29	0.23	0.34	0.30	0.42

Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	4.97	2.39	5.94	5.20	7.92

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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UKAS TESTING 4480 | MCERTS 4480

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3124	**Date Sampled**	14/06/10	14/06/10	14/06/10		
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: Reddish North Primary School	**TP / BH No**	C21	C22	C23		
Project / Job Ref: UV/000174.02	**Additional Refs**	C1	C1	C1		
Order No: None Supplied	**Depth (m)**	GL - 0.10	GL - 0.10	GL - 0.10		
Reporting Date: 21/06/2010	**QTSE Sample No**	11991	11992	11993		

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	0.24	<0.1	0.55		
Acenaphthylene	mg/kg	<0.1	MCERTS	0.13	<0.1	0.23		
Acenaphthene	mg/kg	<0.1	NONE	<0.1	<0.1	0.29		
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	0.38		
Phenanthrene	mg/kg	<0.1	MCERTS	0.50	0.16	2.18		
Anthracene	mg/kg	<0.1	NONE	0.25	<0.1	0.72		
Fluoranthene	mg/kg	<0.1	MCERTS	0.83	<0.1	2.16		
Pyrene	mg/kg	<0.1	MCERTS	0.83	<0.1	1.95		
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.72	<0.1	1.03		
Chrysene	mg/kg	<0.1	MCERTS	0.58	<0.1	0.93		
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.81	<0.1	0.93		
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.44	<0.1	0.46		
Benzo(a)pyrene	mg/kg	<0.1	NONE	0.72	<0.1	0.86		
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.51	<0.1	0.57		
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	0.50	<0.1	0.49		
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.47	<0.1	0.49		

Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	7.54	<1.6	14.22		

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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UKAS TESTING 4480 mCERTS 4480

Soil Analysis Certificate - Sample Descriptions
QTS Environmental Report No: 3124
Urban Vision Partnership Ltd
Site Reference: Reddish North Primary School
Project / Job Ref: UV/000174.02
Order No: None Supplied
Reporting Date: 21/06/2010

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Colour	Sample Matrix Description
11971	C01	C1	GL - 0.20	Brown	Loam
11972	C02	C1	GL - 0.20	Brown	Loam with stones
11973	C03	C1	GL - 0.20	Brown	Loam with stones
11974	C04	C1	GL - 0.20	Brown	Loam
11975	C05	C1	GL - 0.15	Brown	Loam
11976	C06	C1	GL - 0.10	Brown	Loam
11977	C07	C1	GL - 0.20	Brown	Loam
11978	C08	C1	GL - 0.20	Brown	Loam
11979	C09	C1	GL - 0.50	Brown	Loam
11980	C10	C1	GL - 0.15	Brown	Loam
11981	C11	C1	GL - 0.15	Brown	Loam
11982	C12	C1	GL - 0.15	Brown	Loam
11983	C13	C1	GL - 0.20	Brown	Loam
11984	C14	C1	GL - 0.20	Brown	Loam
11985	C15	C1	GL - 0.20	Brown	Loam
11986	C16	C1	GL - 0.15	Brown	Loam
11987	C17	C1	GL - 0.15	Brown	Loam
11988	C18	C1	GL - 0.20	Brown	Loam
11989	C19	C1	GL - 0.10	Brown	Loam
11990	C20	C1	GL - 0.15	Brown	Loam
11991	C21	C1	GL - 0.10	Brown	Loam
11992	C22	C1	GL - 0.10	Brown	Loam
11993	C23	C1	GL - 0.10	Brown	Loam

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UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

Soil Analysis Certificate - Methodology & Misceallaneous Information
QTS Environmental Report No: 3124
Urban Vision Partnership Ltd
Site Reference: Reddish North Primary School
Project / Job Ref: UV/000174.02
Order No: None Supplied
Reporting Date: 21/06/2010

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	AR	Asbestos Screening	Visual screening of samples for fibrous material	E024
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water followed by titration using silver nitrate	E021
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by turbidimeter	E020
Soil	D	Fluoride - Water Soluble	Test Kit	E023
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	D	Loss on Ignition @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	D	Phosphorus	Determination of phosphorus by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	AR	Sulphide	Determination of sulphide by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia, potassium iodide/iodate followed by ICP-OES	E002
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E009
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E009
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E010
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E009
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VPH (C6 - C10)	Determination of hydrocarbons C6-C10 by headspace GC-MS	E001
Soil	AR	EPH TEXAS	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	TPH CWG	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	TPH LQM	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	EPH (with florisil cleanup)	Determination of acetone/hexane extractable hydrocarbons with florisil cleanup step by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001

Key

D Dried
AR As Received

2343

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CERTIFICATE OF ANALYSIS

Report Number: TN19881v0 **Other Ref:** Project/Job No: 3124 **Report Date:** 18/06/2010

Company: QTS Environmental Ltd
Unit 1 Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent ME17 2JN

Site: Reddish North Primary School

AMS Sample Ref No	Client Sample No	Sample Location	Material Type	Asbestos Type	Content
AMS/AK/87070	11974	Project/ Job No: 3124	Cement Product	Chrysotile	Positive
AMS/AK/87071	11776	Project/ Job No: 3124	Cement Product	Chrysotile	Positive

..... END .....

Key to fibre content: Trace = Trace asbestos identified (1 or 2 fibres present) Positive = Asbestos identified (more than 2 fibres present).

Sampled: Externally Number of samples: 2 Date samples received: 18/06/2010 Name of analyst: Alan Kane Date of analysis: 18/06/2010

Quantitive Fibre Content is not covered by our UKAS accreditiation and is not reported. However guidance on the percentages of asbestos used in various products is available in HSG 264. Material types are visually assessed and are outside the scope of UKAS accreditation. The analysis has been performed using the AMS 'In House' method of transmitted/polarised light microscopy and centre stop dispersion staining, based on the HSG 248. AMS do not accept responsibility for any descrepancy or inaccuracy arising from samples labelled or collected by clients or third parties. This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

For and on behalf of AMS Management (GB) LLP

Pete Everard
Lab Manager

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QTS Environmental Report No: 3891

Site Reference: Redish P.S.

Project / Job Ref: UV/000174-04

Order No: ZUV10790

Sample Receipt Date: 23/09/10

Sample Scheduled Date: 23/09/10

Report Issue Number: 1

Reporting Date: 01/10/2010

Authorised by:

Russell Jarvis
Director
On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
Director
On behalf of QTS Environmental Ltd

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4480 4480

Soil Analysis Certificate							
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS01	TS02	TS03	TS04	TS05
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.80 - 1.00	0.60 - 0.80	0.60 - 0.80	0.80 - 1.00	0.60 - 0.80
Reporting Date: 01/10/2010	**QTSE Sample No**	15840	15841	15842	15843	15844

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	8.9	<0.1
Moisture Content	%	<0.1	NONE	21.3	13.2	19.7	19.8	23.9
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative
Asbestos Quantification*	%	<0.001	**ISO17025**	<0.001				

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	**MCERTS**	6.9	6.8	6.8	6.8	6.7
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	572	612	835	657	816
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	353	410	404	380	425
Organic Matter	%	<0.1	NONE	3.6	3.9	4.2	4.4	4.3
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.021	0.023	0.024	0.026	0.025
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	**MCERTS**	13	11	12	10	11
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	**MCERTS**	0.6	0.6	0.7	0.7	0.6
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	**MCERTS**	37	23	25	22	23
Copper (Cu)	mg/kg	<4	**MCERTS**	55	83	69	104	66
Lead (Pb)	mg/kg	<3	**MCERTS**	110	119	118	135	124
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	**MCERTS**	26	22	24	21	21
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	**MCERTS**	124	127	151	141	143

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
Analysis carried out on the dried sample is corrected for the stone content
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample
*Subcontracted analysis

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4480 4480

Soil Analysis Certificate							
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS06	TS07	TS08	TS09	TS10
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.60 - 0.80	0.80 - 1.00	0.40 - 0.60	0.50 - 0.70	0.40 - 0.60
Reporting Date: 01/10/2010	**QTSE Sample No**	15845	15846	15847	15848	15849

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	<0.1
Moisture Content	%	<0.1	NONE	11.9	18.2	20	20.5	22.6
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative
Asbestos Quantification*	%	<0.001	**ISO17025**			<0.001		

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	**MCERTS**	6.6	6.4	6.6	6.6	6.8
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	704	830	746	648	715
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	421	429	417	331	538
Organic Matter	%	<0.1	NONE	4.6	5.2	4.5	4	4.3
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.027	0.030	0.026	0.023	0.025
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	**MCERTS**	11	10	10	11	11
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	**MCERTS**	0.7	0.6	0.6	0.5	0.6
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	**MCERTS**	24	22	21	22	24
Copper (Cu)	mg/kg	<4	**MCERTS**	157	75	78	45	81
Lead (Pb)	mg/kg	<3	**MCERTS**	164	131	149	84	129
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	**MCERTS**	22	20	19	20	22
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	**MCERTS**	167	134	128	115	149

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
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*Subcontracted analysis

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UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

Soil Analysis Certificate							
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS11	TS13	TS14	TS15	TS16
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.60 - 0.80	0.70 - 0.90	0.40 - 0.60	0.50 - 0.70	0.30 - 0.50
Reporting Date: 01/10/2010	**QTSE Sample No**	15850	15851	15852	15853	15854

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	16
Moisture Content	%	<0.1	NONE	20.7	14.4	17.3	19.2	19
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative
Asbestos Quantification*	%	<0.001	**ISO17025**					

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	**MCERTS**	6.8	6.7	6.6	6.7	6.6
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	670	825	703	620	586
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	385	467	376	352	423
Organic Matter	%	<0.1	NONE	4.4	3.9	3.7	2.8	3.7
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.026	0.023	0.021	0.016	0.021
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	**MCERTS**	10	11	11	11	9
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	**MCERTS**	<0.5	0.6	0.7	0.6	0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	**MCERTS**	21	23	22	27	17
Copper (Cu)	mg/kg	<4	**MCERTS**	53	70	79	83	54
Lead (Pb)	mg/kg	<3	**MCERTS**	96	119	116	106	96
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	**MCERTS**	18	21	21	24	16
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	**MCERTS**	110	159	135	125	105

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
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Soil Analysis Certificate							
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS17	TS18	TS19	TS21	TS22
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.60 - 0.80	0.30 - 0.50	0.80 - 1.00	0.50 - 0.70	0.50 - 0.70
Reporting Date: 01/10/2010	**QTSE Sample No**	15855	15856	15857	15858	15859

Determinand	**Unit**	**MDL**	**Accreditation**					
Stone Content	%	<0.1	NONE	12	7.8	<0.1	<0.1	<0.1
Moisture Content	%	<0.1	NONE	17	16.2	12.7	15.8	20.3
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative
Asbestos Quantification*	%	<0.001	**ISO17025**					

General Inorganics	**Unit**	**MDL**	**Accreditation**					
pH	pH Units	+ / - 0.1	**MCERTS**	6.4	6.3	6.0	6.1	6.8
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	642	901	825	887	785
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	379	573	405	471	503
Organic Matter	%	<0.1	NONE	3.5	3.5	4.5	5.4	5.2
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.020	0.020	0.026	0.031	0.030
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	**Unit**	**MDL**	**Accreditation**					
Arsenic (As)	mg/kg	<2	**MCERTS**	11	11	11	12	13
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	**MCERTS**	0.5	0.6	0.8	0.7	0.8
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	**MCERTS**	22	21	22	30	37
Copper (Cu)	mg/kg	<4	**MCERTS**	47	103	86	95	65
Lead (Pb)	mg/kg	<3	**MCERTS**	108	116	185	144	107
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	**MCERTS**	21	19	23	26	24
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	**MCERTS**	119	209	173	144	158

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
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Soil Analysis Certificate							
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS23	TS24	TS25	TS27	TS28
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.70 - 0.90	0.40 - 0.60	0.60 - 0.80	0.80 - 1.00	0.30 - 0.50
Reporting Date: 01/10/2010	**QTSE Sample No**	15860	15861	15862	15863	15864

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	11.8	<0.1	8.9	<0.1
Moisture Content	%	<0.1	NONE	14.9	19.7	14.6	12	17.8
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative
Asbestos Quantification*	%	<0.001	**ISO17025**					

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	**MCERTS**	5.6	6.8	6.4	6.5	6.6
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	834	502	773	959	319
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	432	318	479	387	<200
Organic Matter	%	<0.1	NONE	5.9	2.9	5.1	5.3	1.2
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.034	0.017	0.030	0.031	0.007
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	**MCERTS**	12	10	11	9	8
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	**MCERTS**	0.6	<0.5	0.5	0.5	<0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	**MCERTS**	20	25	22	19	40
Copper (Cu)	mg/kg	<4	**MCERTS**	63	45	71	117	39
Lead (Pb)	mg/kg	<3	**MCERTS**	145	64	115	110	34
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	**MCERTS**	21	24	21	16	43
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	**MCERTS**	134	109	123	102	76

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
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Soil Analysis Certificate							
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS29	TS30	TS31	TS32	TS33
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.40 - 0.60	0.60 - 0.80	0.60 - 0.80	0.60 - 0.80	0.50 - 0.70
Reporting Date: 01/10/2010	**QTSE Sample No**	15865	15866	15867	15868	15869

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	10.9	<0.1	18.3	<0.1
Moisture Content	%	<0.1	NONE	14.1	15.3	8.2	10	20.2
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative
Asbestos Quantification*	%	<0.001	**ISO17025**					

General Inorganics	Unit	Unit	Accreditation					
pH	pH Units	+ / - 0.1	**MCERTS**	6.5	6.4	6.5	6.3	6.3
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	948	684	826	761	858
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	479	414	468	420	442
Organic Matter	%	<0.1	NONE	6.8	4.9	5	4.7	7.9
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.040	0.029	0.029	0.028	0.046
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	Unit	Accreditation					
Arsenic (As)	mg/kg	<2	**MCERTS**	11	10	11	9	9
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	**MCERTS**	0.6	0.5	0.6	<0.5	0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	**MCERTS**	39	22	21	19	16
Copper (Cu)	mg/kg	<4	**MCERTS**	72	77	83	45	47
Lead (Pb)	mg/kg	<3	**MCERTS**	131	145	146	105	79
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	**MCERTS**	31	20	20	17	16
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	**MCERTS**	128	120	124	108	100

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Soil Analysis Certificate							
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS34	TS35	TS36	TS37	TS38
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.80 - 1.00	0.60 - 0.80	0.70 - 0.90	0.40 - 0.60	0.70 - 0.90
Reporting Date: 01/10/2010	**QTSE Sample No**	15870	15871	15872	15873	15874

Determinand	**Unit**	**MDL**	**Accreditation**					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	22.2	10.1
Moisture Content	%	<0.1	NONE	18.8	15.5	16.2	16.5	13.9
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative
Asbestos Quantification*	%	<0.001	**ISO17025**			<0.001		

General Inorganics	**Unit**	**Unit**	**Accreditation**					
pH	pH Units	+ / - 0.1	**MCERTS**	6.4	7.2	7.5	6.5	6.4
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	993	934	787	652	932
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	521	531	455	327	421
Organic Matter	%	<0.1	NONE	5.7	5.6	5.2	4.4	3.4
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.033	0.033	0.030	0.025	0.020
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	**Unit**	**Unit**	**Accreditation**					
Arsenic (As)	mg/kg	<2	**MCERTS**	11	10	10	8	10
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	**MCERTS**	0.6	0.5	0.6	<0.5	<0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	**MCERTS**	25	21	21	16	21
Copper (Cu)	mg/kg	<4	**MCERTS**	52	49	50	39	48
Lead (Pb)	mg/kg	<3	**MCERTS**	95	114	107	76	91
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	**MCERTS**	22	20	21	16	19
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	**MCERTS**	120	116	113	89	108

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
Analysis carried out on the dried sample is corrected for the stone content
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Soil Analysis Certificate							
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Redish P.S.	**TP / BH No**	TS39	TS40	TS41	TS42	
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	
Order No: ZUV10790	**Depth (m)**	0.80 - 1.00	0.80 - 1.00	0.80 - 1.00	0.50 - 0.70	
Reporting Date: 01/10/2010	**QTSE Sample No**	15875	15876	15877	15878	

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	
Moisture Content	%	<0.1	NONE	12.4	17.9	20.9	17.9	
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	
Asbestos Quantification*	%	<0.001	**ISO17025**					

General Inorganics	Unit	Unit	Accreditation					
pH	pH Units	+ / - 0.1	**MCERTS**	6.5	6.5	6.4	6.1	
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	
Total Sulphate as SO_4	mg/kg	<200	NONE	767	832	847	821	
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	
Total Sulphur	mg/kg	<200	NONE	418	456	420	461	
Organic Matter	%	<0.1	NONE	4.9	4.3	4.4	5.3	
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.028	0.025	0.025	0.031	
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	

Metals	Unit	Unit	Accreditation					
Arsenic (As)	mg/kg	<2	**MCERTS**	11	10	15	12	
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	
Cadmium (Cd)	mg/kg	<0.5	**MCERTS**	0.6	0.6	0.7	0.6	
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	
Chromium (Cr)	mg/kg	<2	**MCERTS**	20	22	22	20	
Copper (Cu)	mg/kg	<4	**MCERTS**	56	55	62	66	
Lead (Pb)	mg/kg	<3	**MCERTS**	110	96	102	140	
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	
Nickel (Ni)	mg/kg	<3	**MCERTS**	21	20	23	22	
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	
Zinc (Zn)	mg/kg	<3	**MCERTS**	123	116	118	116	

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4480 **4480**

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS01	TS02	TS03	TS04	TS05
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.80 - 1.00	0.60 - 0.80	0.60 - 0.80	0.80 - 1.00	0.60 - 0.80
Reporting Date: 01/10/2010	**QTSE Sample No**	15840	15841	15842	15843	15844

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	0.17	0.59	0.23	0.61	0.22
Anthracene	mg/kg	<0.1	MCERTS	<0.1	0.11	<0.1	0.13	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	0.32	0.75	0.35	0.85	0.38
Pyrene	mg/kg	<0.1	MCERTS	0.34	0.71	0.34	0.81	0.38
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.17	0.32	0.14	0.40	0.17
Chrysene	mg/kg	<0.1	MCERTS	0.17	0.35	0.16	0.44	0.19
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	0.22	<0.1	0.20	<0.1
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.17	0.27	0.13	0.44	0.12
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	0.13	0.22	<0.1	0.32	0.14
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	0.13	<0.1

Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	<1.6	3.53	<1.6	4.35	1.61

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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4480 4480

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS06	TS07	TS08	TS09	TS10
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.60 - 0.80	0.80 - 1.00	0.40 - 0.60	0.50 - 0.70	0.40 - 0.60
Reporting Date: 01/10/2010	**QTSE Sample No**	15845	15846	15847	15848	15849

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	0.14	<0.1	0.14	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	0.16	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	1.30	0.80	1.00	0.96	0.29
Anthracene	mg/kg	<0.1	MCERTS	0.23	0.19	0.23	0.20	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	1.49	1.67	1.61	1.33	0.56
Pyrene	mg/kg	<0.1	MCERTS	1.47	1.66	1.52	1.29	0.56
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.73	0.95	0.79	0.60	0.29
Chrysene	mg/kg	<0.1	MCERTS	0.74	0.95	0.76	0.63	0.33
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.38	0.50	0.54	0.33	0.20
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.62	0.99	0.60	0.51	0.32
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	0.53	0.96	0.58	0.45	0.25
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.12	0.24	0.12	<0.1	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.25	0.34	0.24	0.17	<0.1

Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	8.14	9.23	8.13	6.46	2.81

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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4480 **4480**

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS11	TS13	TS14	TS15	TS16
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.60 - 0.80	0.70 - 0.90	0.40 - 0.60	0.50 - 0.70	0.30 - 0.50
Reporting Date: 01/10/2010	**QTSE Sample No**	15850	15851	15852	15853	15854

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	0.51	0.62	0.48	0.43	0.82
Anthracene	mg/kg	<0.1	MCERTS	<0.1	0.13	<0.1	<0.1	0.19
Fluoranthene	mg/kg	<0.1	MCERTS	0.83	1.03	0.84	0.88	1.29
Pyrene	mg/kg	<0.1	MCERTS	0.83	0.98	0.82	0.89	1.24
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.41	0.53	0.40	0.46	0.61
Chrysene	mg/kg	<0.1	MCERTS	0.45	0.54	0.46	0.49	0.63
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.22	0.34	0.23	0.25	0.42
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.46	0.55	0.45	0.51	0.50
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	0.33	0.54	0.35	0.37	0.56
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	<0.1	0.13	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	<0.1	0.21	0.14	0.17	0.20

Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	4.03	5.58	4.18	4.46	6.45

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS17	TS18	TS19	TS21	TS22
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.60 - 0.80	0.30 - 0.50	0.80 - 1.00	0.50 - 0.70	0.50 - 0.70
Reporting Date: 01/10/2010	**QTSE Sample No**	15855	15856	15857	15858	15859

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	0.14	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	0.16	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	0.53	0.48	1.84	0.65	0.24
Anthracene	mg/kg	<0.1	MCERTS	0.12	<0.1	0.42	0.14	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	1.10	0.98	3.74	1.61	0.52
Pyrene	mg/kg	<0.1	MCERTS	1.09	0.96	3.78	1.57	0.54
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.59	0.49	2.41	0.95	0.29
Chrysene	mg/kg	<0.1	MCERTS	0.64	0.53	2.19	0.93	0.32
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.41	0.31	1.15	0.69	0.25
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.67	0.49	2.41	1.03	0.32
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	0.63	0.40	2.30	1.03	0.26
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.15	<0.1	0.72	0.28	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	0.20	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.26	0.14	0.89	0.42	<0.1

Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	6.18	4.78	22.34	9.30	2.76

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS23	TS24	TS25	TS27	TS28
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.70 - 0.90	0.40 - 0.60	0.60 - 0.80	0.80 - 1.00	0.30 - 0.50
Reporting Date: 01/10/2010	**QTSE Sample No**	15860	15861	15862	15863	15864

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	0.53	<0.1	0.49	0.63	0.45
Anthracene	mg/kg	<0.1	MCERTS	0.11	<0.1	<0.1	0.15	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	1.31	0.18	0.97	1.30	0.86
Pyrene	mg/kg	<0.1	MCERTS	1.32	0.18	0.95	1.27	0.85
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.76	<0.1	0.54	0.75	0.48
Chrysene	mg/kg	<0.1	MCERTS	0.80	<0.1	0.58	0.75	0.52
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.62	<0.1	0.33	0.50	0.38
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.79	<0.1	0.61	0.83	0.47
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	0.80	<0.1	0.45	0.80	0.51
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.21	<0.1	0.13	0.25	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.33	<0.1	0.21	0.31	0.21
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	7.59	<1.6	5.26	7.53	4.72

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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UKAS TESTING 4480 mCERTS 4480

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS29	TS30	TS31	TS32	TS33
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.40 - 0.60	0.60 - 0.80	0.60 - 0.80	0.60 - 0.80	0.50 - 0.70
Reporting Date: 01/10/2010	**QTSE Sample No**	15865	15866	15867	15868	15869

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	0.21	<0.1	0.12	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	0.16	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	0.42	1.72	0.69	1.10	0.60
Anthracene	mg/kg	<0.1	MCERTS	<0.1	0.39	0.16	0.23	0.13
Fluoranthene	mg/kg	<0.1	MCERTS	0.84	2.27	1.22	1.67	1.33
Pyrene	mg/kg	<0.1	MCERTS	0.83	2.13	1.18	1.55	1.33
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.49	1.12	0.69	0.83	0.81
Chrysene	mg/kg	<0.1	MCERTS	0.49	1.04	0.68	0.80	0.79
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.34	0.59	0.47	0.50	0.54
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.54	0.92	0.61	0.73	0.85
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	0.43	0.92	0.60	0.77	0.81
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.11	0.24	0.17	0.18	0.20
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.21	0.33	0.28	0.29	0.29

Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	4.71	12.05	6.75	8.76	7.69

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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UKAS TESTING 4480 mCERTS 4480

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	22/09/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	TS34	TS35	TS36	TS37	TS38
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: ZUV10790	**Depth (m)**	0.80 - 1.00	0.60 - 0.80	0.70 - 0.90	0.40 - 0.60	0.70 - 0.90
Reporting Date: 01/10/2010	**QTSE Sample No**	15870	15871	15872	15873	15874

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	<0.1	<0.1	0.15	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	0.22	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	0.17	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	0.49	0.53	2.17	0.31	0.38
Anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	0.38	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	1.02	1.01	2.86	0.65	0.74
Pyrene	mg/kg	<0.1	MCERTS	0.97	0.97	2.61	0.62	0.75
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.53	0.49	1.28	0.33	0.40
Chrysene	mg/kg	<0.1	MCERTS	0.57	0.54	1.22	0.42	0.41
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.37	0.44	0.73	0.30	0.26
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.55	0.54	1.09	0.36	0.41
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	0.45	0.62	1.09	0.40	0.33
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	<0.1	0.15	0.23	<0.1	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.21	0.25	0.34	0.16	0.15

Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	5.17	5.55	14.56	3.55	3.83

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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UKAS TESTING 4480 mCERTS 4480

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 3891	**Date Sampled**	22/09/10	22/09/10	22/09/10	22/09/10	
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Redish P.S.	**TP / BH No**	TS39	TS40	TS41	TS42	
Project / Job Ref: UV/000174-04	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	
Order No: ZUV10790	**Depth (m)**	0.80 - 1.00	0.80 - 1.00	0.80 - 1.00	0.50 - 0.70	
Reporting Date: 01/10/2010	**QTSE Sample No**	15875	15876	15877	15878	

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	ISO17025	<0.1	<0.1	<0.1	<0.1	
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	0.15	
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	
Phenanthrene	mg/kg	<0.1	MCERTS	0.91	0.67	0.63	1.08	
Anthracene	mg/kg	<0.1	MCERTS	0.19	0.15	0.15	0.24	
Fluoranthene	mg/kg	<0.1	MCERTS	1.46	1.24	1.68	1.76	
Pyrene	mg/kg	<0.1	MCERTS	1.37	1.17	1.69	1.59	
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.72	0.61	1.04	0.77	
Chrysene	mg/kg	<0.1	MCERTS	0.75	0.64	1.02	0.74	
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.47	0.45	0.80	0.40	
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.70	0.55	1.03	0.67	
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	0.74	0.50	0.94	0.53	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.18	0.14	0.28	0.13	
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	0.28	0.21	0.42	0.21	
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	7.78	6.33	9.67	8.28	

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

QTS Environmental Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 851105

UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

Soil Analysis Certificate - Sample Descriptions	
QTS Environmental Report No: 3891	
Urban Vision Partnership Ltd	
Site Reference: Redish P.S.	
Project / Job Ref: UV/000174-04	
Order No: ZUV10790	
Reporting Date: 01/10/2010	

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Colour	Sample Matrix Description
15840	TS01	None Supplied	0.80 - 1.00	Brown	Clayey loam with roots
15841	TS02	None Supplied	0.60 - 0.80	Brown	Sandy loam with roots
15842	TS03	None Supplied	0.60 - 0.80	Brown	Clayey loam
15843	TS04	None Supplied	0.80 - 1.00	Brown	Sandy loam with roots
15844	TS05	None Supplied	0.60 - 0.80	Brown	Clayey loam with roots
15845	TS06	None Supplied	0.60 - 0.80	Brown	Sandy loam with roots
15846	TS07	None Supplied	0.80 - 1.00	Brown	Sandy loam with roots
15847	TS08	None Supplied	0.40 - 0.60	Brown	Clayey loam with roots
15848	TS09	None Supplied	0.50 - 0.70	Brown	Clayey loam with roots
15849	TS10	None Supplied	0.40 - 0.60	Brown	Clayey loam with roots
15850	TS11	None Supplied	0.60 - 0.80	Brown	Clayey loam with roots
15851	TS13	None Supplied	0.70 - 0.90	Brown	Sandy loam with roots
15852	TS14	None Supplied	0.40 - 0.60	Brown	Clayey loam with roots
15853	TS15	None Supplied	0.50 - 0.70	Brown	Clayey loam with roots
15854	TS16	None Supplied	0.30 - 0.50	Brown	Clayey loam with roots
15855	TS17	None Supplied	0.60 - 0.80	Brown	Clayey loam with roots
15856	TS18	None Supplied	0.30 - 0.50	Brown	Clayey loam with roots
15857	TS19	None Supplied	0.80 - 1.00	Brown	Sandy loam with roots
15858	TS21	None Supplied	0.50 - 0.70	Brown	Sandy loam with roots
15859	TS22	None Supplied	0.50 - 0.70	Brown	Clayey loam with roots
15860	TS23	None Supplied	0.70 - 0.90	Brown	Sandy loam with roots
15861	TS24	None Supplied	0.40 - 0.60	Brown	Clayey loam with roots
15862	TS25	None Supplied	0.60 - 0.80	Brown	Sandy loam with roots
15863	TS27	None Supplied	0.80 - 1.00	Brown	Sandy loam with roots
15864	TS28	None Supplied	0.30 - 0.50	Brown	Clayey loam with roots
15865	TS29	None Supplied	0.40 - 0.60	Brown	Sandy loam with roots
15866	TS30	None Supplied	0.60 - 0.80	Brown	Sandy loam with roots and stones
15867	TS31	None Supplied	0.60 - 0.80	Brown	Sandy loam with roots
15868	TS32	None Supplied	0.60 - 0.80	Brown	Sandy loam with roots
15869	TS33	None Supplied	0.50 - 0.70	Brown	Sandy loam with roots
15870	TS34	None Supplied	0.80 - 1.00	Brown	Sandy loam with roots
15871	TS35	None Supplied	0.60 - 0.80	Brown	Clayey loam with roots
15872	TS36	None Supplied	0.70 - 0.90	Brown	Clayey loam with roots
15873	TS37	None Supplied	0.40 - 0.60	Brown	Sandy loam with roots and stones
15874	TS38	None Supplied	0.70 - 0.90	Brown	Sandy loam with roots
15875	TS39	None Supplied	0.80 - 1.00	Brown	Sandy loam with roots
15876	TS40	None Supplied	0.80 - 1.00	Brown	Sandy loam with roots
15877	TS41	None Supplied	0.80 - 1.00	Brown	Sandy loam with roots
15878	TS42	None Supplied	0.50 - 0.70	Brown	Sandy loam with roots

QTS Environmental Ltd
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Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 851105

4480 **4480**

Soil Analysis Certificate - Methodology & Misceallaneous Information
QTS Environmental Report No: 3891
Urban Vision Partnership Ltd
Site Reference: Redish P.S.
Project / Job Ref: UV/000174-04
Order No: ZUV10790
Reporting Date: 01/10/2010

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	AR	Asbestos Screening	Visual screening of samples for fibrous material	E024
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water followed by titration using silver nitrate	E021
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by turbidimeter	E020
Soil	D	Fluoride - Water Soluble	Test Kit	E023
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	D	Loss on Ignition @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	D	Phosphorus	Determination of phosphorus by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	AR	Sulphide	Determination of sulphide by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia, potassium iodide/iodate followed by ICP-OES	E002
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E009
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E009
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E010
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E009
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VPH (C6 - C10)	Determination of hydrocarbons C6-C10 by headspace GC-MS	E001
Soil	AR	EPH TEXAS	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	TPH CWG	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	TPH LQM	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	EPH (with florisil cleanup)	Determination of acetone/hexane extractable hydrocarbons with florisil cleanup step by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001

Key

D Dried
AR As Received

2343

AMS Management (GB) LLP
Unit 1
9, Cannon Lane
Tonbridge
Kent TN9 1PP
Tel: 01732 368359
Email: xxxx.xxxxxxx@xxxxxxxxxxxx.xxx

CERTIFICATE OF ANALYSIS

Report Number: TN20062v0 **Other Ref:** UV000174 **Report Date:** 30/06/2010

Company: QTS Environmental Ltd
Unit 1 Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent ME17 2JN

Site: Reddish North Primary School, Top Soil Strip

AMS Sample Ref No	Client Sample No	Sample Location	Material Type	Asbestos Type	Content
AMS/PE/87708	S1/12497	Top Soil Strip, Project/Job No UV 000174	Insulation	Amosite	Positive
				Chrysotile	Positive

..... END .....

Key to fibre content: Trace = Trace asbestos identified (1 or 2 fibres present) Positive = Asbestos identified (more than 2 fibres present).

Sampled: Externally Number of samples: 1 Date samples received: 30/06/2006 Name of analyst: Pete Everard Date of analysis: 30/06/2010

Quantitive Fibre Content is not covered by our UKAS accreditiation and is not reported. However guidance on the percentages of asbestos used in various products is available in HSG 264. Material types are visually assessed and are outside the scope of UKAS accreditation. The analysis has been performed using the AMS 'In House' method of transmitted/polarised light microscopy and centre stop dispersion staining, based on the HSG 248. AMS do not accept responsibility for any descrepancy or inaccuracy arising from samples labelled or collected by clients or third parties. This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

For and on behalf of AMS Management (GB) LLP

Pete Everard
Lab Manager

AMS Management (GB) LLP Registered in England OC311295
Registered office: Unit 1, 9 Cannon Lane, Tonbridge, Kent, TN9 1PP
Produced by www.bulkmanager.co.uk Version 1.0.2 11/07/2007

2343

AMS Management (GB) LLP
Unit 1
9, Cannon Lane
Tonbridge
Kent TN9 1PP
Tel: 01732 368359
Email: xxxx.xxxxxxx@xxxxxxxxxxxx.xxx

CERTIFICATE OF ANALYSIS

Report Number: TN19881v0 **Other Ref:** Project/Job No: 3124 **Report Date:** 18/06/2010

Company: QTS Environmental Ltd
Unit 1 Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent ME17 2JN

Site: Reddish North Primary School

AMS Sample Ref No	Client Sample No	Sample Location	Material Type	Asbestos Type	Content
AMS/AK/87070	11974	Project/ Job No: 3124	Cement Product	Chrysotile	Positive
AMS/AK/87071	11776	Project/ Job No: 3124	Cement Product	Chrysotile	Positive

..... END .....

Key to fibre content: Trace = Trace asbestos identified (1 or 2 fibres present) Positive = Asbestos identified (more than 2 fibres present).

Sampled: Externally Number of samples: 2 Date samples received: 18/06/2010 Name of analyst: Alan Kane Date of analysis: 18/06/2010

Quantitive Fibre Content is not covered by our UKAS accreditiation and is not reported. However guidance on the percentages of asbestos used in various products is available in HSG 264. Material types are visually assessed and are outside the scope of UKAS accreditation. The analysis has been performed using the AMS 'In House' method of transmitted/polarised light microscopy and centre stop dispersion staining, based on the HSG 248. AMS do not accept responsibility for any descrepancy or inaccuracy arising from samples labelled or collected by clients or third parties. This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

For and on behalf of AMS Management (GB) LLP

Pete Everard
Lab Manager

AMS Management (GB) LLP Registered in England OC311295
Registered office: Unit 1, 9 Cannon Lane, Tonbridge, Kent, TN9 1PP
Produced by www.bulkmanager.co.uk Version 1.0.2 11/07/2007

ALcontrol Laboratories

Certificate of Bulk Sample Asbestos Identification

Project No. 22191031/001
Job No. 11-21357
Location Reddish Primary School
Customer URBAN
Contact Jonathan Evans
Date sampled 40576
Date of receipt 10/03/2011
Date of analysis 10/03/2011 to 17/03/2011

ALcontrol Laboratories
The Laboratory
Lakeview Drive
Sherwood
Nottingham NG15 0ED
t: +44 (0)1623 886 800

Lab Reference	Sample Location	Sample Description	Asbestos Identification	Comments
231018	SS39 0.3	Soil	No Asbestos Detected	None
231019	SS40 0.4	Soil	No Asbestos Detected	None
231020	SS41 0.35	Soil	No Asbestos Detected	None
231021	SS42 0.3	Soil	No Asbestos Detected	None
231022	SS43 0.3	Soil	No Asbestos Detected	None
231023	SS44 0.3	Soil	Chrysotile	Free Fibre
231024	SS45 0.35	Soil	No Asbestos Detected	None
231025	SS46 0.3	Soil	No Asbestos Detected	None

Authorised by Paul Gribble
Signature

Position Technical Development Manager
Date of issue 17 March 2011

Analyst Adam Taylor
Signature

Registered Office:
ALcontrol Laboratories
Units 7 & 8
Hawarden Business Park
Off Manor Lane
Hawarden
CH5 3US
Registered Number:
4057291

The above samples were submitted by the client.

Analysis is in accordance with in-house technical procedures - AID, based upon HSE guidance note HSG 248 "Asbestos: The Analysts' Guide For Sampling, Analysis and Clearance Procedures". The information above has been supplied by the customer. ALcontrol are not responsible for sampling errors. Sample/material descriptions, opinions, comments and interpretation expressed herein are outside the scope of UKAS accreditation. Information supplied by e-mail may be subject to error during transfer.

ALcontrol Laboratories

Certificate of Asbestos in Soil Quantification & Identification

Project No. 22191031/001
Job No. 11-21357
Location Reddish Primary School
Customer URBAN
Contact Jonathan Evans
Date sampled 40576
Date of receipt 10/03/2011
Date of analysis 10/03/2011 to 17/03/2011

Alcontrol Laboratories
The Laboratory
Lakeview Drive
Sherwood
Nottingham NG15 0ED
t: +44 (0)1623 886 800

Lab Reference	Sample Location	Description	Asbestos Identification	Containing Material	Quantification (%)
231023	SS44 0.3	Soil	Chrysotile	Free Fibre	< 0.01

Authorised by Paul Gribble
Signature

Position Technical Development Manager
Date of issue 17 March 2011

Analyst Adam Taylor
Signature

Registered Office:
ALcontrol Laboratories
Units 7 & 8
Hawarden Business Park
Off Manor Lane
Hawarden
CH5 3US
Registered Number:
4057291

The above samples were submitted by the client.

Analysis is in accordance with in-house Asbestos Technical Procedures - BULK ID, based upon HSE guidance note HSG 248 "Asbestos: The Analysts' Guide For Sampling, Analysis and Clearance Procedures", and quantification of Asbestos in Soil (QAS). The information above is supplied by the customer. ALcontrol is not responsible for sampling errors where the sample is taken by others. If taken by a third party, ALcontrol cannot be held responsible for any incorrect information submitted. Opinions and interpretations expressed herein, such as the material type, amount of asbestos fibre, and type of non-asbestos fibre, are outside the scope of UKAS accreditation. The amount of asbestos (w/w) within the sample is determined by in-house Asbestos Technical procedure QAS. Samples with an asbestos content of above 0.1% are classified as Hazardous Waste in England & Wales, & Special Waste in Scotland.Limits of detection & accuracy depends on initial sample mass. The minimum mass that can be practically weighed is 0.001g & the optimum mass of 500g gives a limit of detection of (0.001/500)x100 = 0.0002%. To give confidence in the results, a minimum mass of 100g is used (giving a limit of detection of 0.01%). Around the reporting level of 0.1% the uncertainty of measurement equals 0.012%. Inform

ALcontrol Laboratories

Certificate of Bulk Sample Asbestos Identification

Project No. 12199908/001
Job No. 10-19347
Location Reddish Primary School
Customer URBAN
Contact Catherine O'Donnell
Date sampled 30/11/2010
Date of receipt 01 December 2010
Date of analysis 02/12/2010 to 15/12/2010

ALcontrol Laboratories
The Laboratory
Lakeview Drive
Sherwood
Nottingham NG15 0ED
t: +44 (0)1623 886 800

Lab Reference	Sample Location	Sample Description	Asbestos Identification	Comments
211795	SS01 0.15	Soil	No Asbestos Detected	None
211796	SS02 0.2	Soil	No Asbestos Detected	None
211797	SS05 0.25	Soil	No Asbestos Detected	None
211798	SS06 0.25	Soil	Chrysotile	Insulation
211799	SS11 0.15	Soil	Chrysotile	Insulation
211800	SS12 0.1	Soil	Amosite & Chrysotile	Insulating Board
211801	SS16 0.25	Soil	No Asbestos Detected	None
211802	SS17 0.2	Soil	No Asbestos Detected	None
211803	SS18 0.2	Soil	No Asbestos Detected	None
211804	SS19 0.25	Soil	No Asbestos Detected	None

Authorised by Andrew Clissold
Signature

Analyst Nina Harriman
Signature

Position Sample Preparation Manager
Date of issue 15 December 2010

UKAS TESTING 0206

Registered Office:
ALcontrol Laboratories
Units 7 & 8
Hawarden Business Park
Off Manor Lane
Hawarden
CH5 3US
Registered Number:
4057291

The above samples were submitted by the client.

ALcontrol Laboratories

Certificate of Bulk Sample Asbestos Identification

Project No. 12199908/001
Job No. 10-19347
Location Reddish Primary School
Customer URBAN
Contact Catherine O'Donnell
Date sampled 30/11/2010
Date of receipt 01 December 2010
Date of analysis 02/12/2010 to 15/12/2010

ALcontrol Laboratories
The Laboratory
Lakeview Drive
Sherwood
Nottingham NG15 0ED
t: +44 (0)1623 886 800

Lab Reference	Sample Location	Sample Description	Asbestos Identification	Comments
211805	SS20 0.45	Soil	Chrysotile	Free Fibre & Insulation
211806	SS21 0.45	Soil	No Asbestos Detected	None

Authorised by Andrew Clissold
Signature

Analyst Nina Harriman
Signature

Position Sample Preparation Manager
Date of issue 15 December 2010

Registered Office:
ALcontrol Laboratories
Units 7 & 8
Hawarden Business Park
Off Manor Lane
Hawarden
CH5 3US
Registered Number:
4057291

UKAS TESTING 0206

The above samples were submitted by the client.

Analysis is in accordance with in-house technical procedures - AID, based upon HSE guidance note HSG 248 "Asbestos: The Analysts' Guide For Sampling, Analysis and Clearance Procedures". The information above has been supplied by the customer. ALcontrol are not responsible for sampling errors. Sample/material descriptions, opinions, comments and interpretation expressed herein are outside the scope of UKAS accreditation. Information supplied by e-mail may be subject to error during transfer.

ALcontrol Laboratories

Certificate of Asbestos in Soil Quantification & Identification

Project No. 12199908/001
Job No. 10-19347
Location Reddish Primary School
Customer URBAN
Contact Catherine O'Donnell
Date sampled 30/11/2010
Date of receipt 01 December 2010
Date of analysis 02/12/2010 to 15/12/2010

Alcontrol Laboratories
The Laboratory
Lakeview Drive
Sherwood
Nottingham NG15 0ED
t: +44 (0)1623 886 800

Lab Reference	Sample Location	Description	Asbestos Identification	Containing Material	Quantification (%)
211798	SS06 0.25	Soil	Chrysotile	Insulation	< 0.01
211799	SS11 0.15	Soil	Chrysotile	Insulation	< 0.01
211800	SS12 0.1	Soil	Amosite & Chrysotile	Insulating Board	0.04
211805	SS20 0.45	Soil	Chrysotile	Free Fibre & Insulation	< 0.01

Authorised by Andrew Clissold
Signature

Analyst Adam Taylor
Signature

Position Sample Preparation Manager
Date of issue 15 December 2010

Registered Office:
ALcontrol Laboratories
Units 7 & 8
Hawarden Business Park
Off Manor Lane
Hawarden
CH5 3US
Registered Number:
4057291

The above samples were submitted by the client.

Analysis is in accordance with in-house Asbestos Technical Procedures - BULK ID, based upon HSE guidance note HSG 248 "Asbestos: The Analysts' Guide For Sampling, Analysis and Clearance Procedures", and quantification of Asbestos in Soil (QAS). The information above is supplied by the customer. ALcontrol is not responsible for sampling errors where the sample is taken by others. If taken by a third party, ALcontrol cannot be held responsible for any incorrect information submitted. Opinions and interpretations expressed herein, such as the material type, amount of asbestos fibre, and type of non-asbestos fibre, are outside the scope of UKAS accreditation. The amount of asbestos (w/w) within the sample is determined by in-house Asbestos Technical procedure QAS. Samples with an asbestos content of above 0.1% are classified as Hazardous Waste in England & Wales, & Special Waste in Scotland.Limits of detection & accuracy depends on initial sample mass. The minimum mass that can be practically weighed is 0.001g & the optimum mass of 500g gives a limit of detection of (0.001/500)x100 = 0.0002%. To give confidence in the results, a minimum mass of 100g is used (giving a limit of detection of 0.01%). Around the reporting level of 0.1% the uncertainty of measurement equals 0.012%. Inform

ALcontrol Laboratories

Certificate of Bulk Sample Asbestos Identification

Project No. 12199853/001
Job No. 10-18834
Location Reddish Primary School, Reddish, Stockport
Customer URBAN
Contact Catherine O'Donnell
Date sampled 40432
Date of receipt 10/11/2010
Date of analysis 10/11/2010 to 19/11/2010

ALcontrol Laboratories
The Laboratory
Lakeview Drive
Sherwood
Nottingham NG15 0ED
t: +44 (0)1623 886 800

Lab Reference	Sample Location	Sample Description	Asbestos Identification	Comments
206036	SS31 0-0.1	Soil	No Asbestos Detected	None
206037	SS32 0-0.1	Soil	No Asbestos Detected	None
206038	SS33 0-0.1	Soil	No Asbestos Detected	None
206039	SS34 0-0.1	Soil	No Asbestos Detected	None
206040	SS35 0-0.1	Soil	No Asbestos Detected	None
206041	SS36 0-0.1	Soil	No Asbestos Detected	None
206042	SS37 0-0.1	Soil	No Asbestos Detected	None
206043	SS38 0-0.1	Soil	No Asbestos Detected	None

Authorised by Andrew Clissold
Signature

Analyst Adam Taylor
Signature

Position Sample Preparation Manager
Date of issue 22 November 2010

UKAS TESTING 0206

Registered Office:
ALcontrol Laboratories
Units 7 & 8
Hawarden Business Park
Off Manor Lane
Hawarden
CH5 3US
Registered Number: 4057291

The above samples were submitted by the client.

Certificate of Bulk Sample Asbestos Identification

WSP
The Laboratory
Lakeview Drive
Sherwood
Nottingham NG15 0ED

t: +44 (0)1623 886 800

Project No. 12199785/001
Job No. 10-18027
Location Redish Primary School
Customer Urban Vision
Contact Catherine O'Donnell
Date sampled 13/10/2010
Date of receipt 14/10/2010
Date of analysis 20/10/2010

Lab Reference	Sample Location	Sample Description	Asbestos Identification	Comments
198443	SS03 0-0.25	Soil	No Asbestos Detected	None
198444	SS04 0-0.2	Soil	No Asbestos Detected	None
198445	SS07 0-0.25	Soil	No Asbestos Detected	None
198446	SS08 0-0.25	Soil	No Asbestos Detected	None
198447	SS09 0-0.3	Soil	No Asbestos Detected	None
198448	SS10 0-0.3	Soil	No Asbestos Detected	None
198449	SS13 0-0.3	Soil	Chrysotile	Paper backing to Floor Covering
198450	SS14 0-0.3	Soil	No Asbestos Detected	None
198451	SS15 0-0.3	Soil	No Asbestos Detected	None
198452	SS22 0-0.15	Soil	No Asbestos Detected	None

Authorised by Joanne O'Sullivan
Signature

Analyst Adam Taylor
Signature

UKAS TESTING
2538N

Position Analysis Manager
Date of issue 21 October 2010

WSP Environmental Risk Management Services Division

Registered Office:
WSP House
70 Chancery Lane
London
WC2A 1AF

Registered Number
1152332 England

The above samples were submitted by the client.

Analysis is in accordance with in-house technical procedures - AID, based upon HSE guidance note HSG 248 "Asbestos: The Analysts' Guide For Sampling, Analysis and Clearance Procedures". Sampling by WSP RMS is in accordance with in - house technical procedures - SSA. Where the sample was not taken by WSP RMS, the information above is that which is supplied by the client. WSP are not responsible for sampling errors where the sample is taken by others. Sample/material descriptions, opinions, comments and interpretation expressed herein are outside the scope of UKAS accreditation. Information supplied by e-mail may be subject to error during transfer.

Certificate of Bulk Sample Asbestos Identification

WSP
The Laboratory
Lakeview Drive
Sherwood
Nottingham NG15 0ED

t: +44 (0)1623 886 800

Project No. 12199785/001
Job No. 10-18027
Location Redish Primary School
Customer Urban Vision
Contact Catherine O'Donnell
Date sampled 13/10/2010
Date of receipt 14/10/2010
Date of analysis 20/10/2010

Lab Reference	Sample Location	Sample Description	Asbestos Identification	Comments
198453	SS23 0-0.3	Soil	No Asbestos Detected	None
198454	SS24 0-0.3	Soil	No Asbestos Detected	None
198455	SS25 0-0.1	Soil	No Asbestos Detected	None
198456	SS26 0-0.15	Soil	No Asbestos Detected	None
198457	SS27 0-0.45	Soil	No Asbestos Detected	None
198458	SS28 0-0.2	Soil	No Asbestos Detected	None
198459	SS29 0-0.1	Soil	No Asbestos Detected	None
198460	SS30 0-0.15	Soil	No Asbestos Detected	None

Authorised by Joanne O'Sullivan
Signature

Analyst Adam Taylor
Signature

Position Analysis Manager
Date of issue 21 October 2010

UKAS TESTING 2538N

WSP Environmental Risk Management Services Division

Registered Office:
WSP House
70 Chancery Lane
London
WC2A 1AF

Registered Number
1152332 England

The above samples were submitted by the client.

Analysis is in accordance with in-house technical procedures - AID, based upon HSE guidance note HSG 248 "Asbestos: The Analysts' Guide For Sampling, Analysis and Clearance Procedures". Sampling by WSP RMS is in accordance with in - house technical procedures - SSA. Where the sample was not taken by WSP RMS, the information above is that which is supplied by the client. WSP are not responsible for sampling errors where the sample is taken by others. Sample/material descriptions, opinions, comments and interpretation expressed herein are outside the scope of UKAS accreditation. Information supplied by e-mail may be subject to error during transfer.

Certificate of Asbestos in Soil Quantification & Identification

WSP
The Laboratory
Lakeview Drive
Sherwood
Nottingham NG15 0ED

t: +44 (0)1623 886 800

Project No. 12199785/001
Job No. 10-18027
Location Redish Primary School
Customer Urban Vision
Contact Catherine O'Donnell
Date sampled 13/10/2010
Date of receipt 14/10/2010
Date of analysis 20/10/2010

Lab Ref	Sample Location	Sample Description	Asbestos Id	Asbestos containing material	Quantification
198449	SS13 0-0.3	Soil	Chrysotile	Paper backing to Floor Covering	0.04%

Authorised by Joanne O'Sullivan
Signature

Analyst Adam Taylor
Signature

UKAS TESTING
2538N

Position Analysis Manager
Date of issue 21 October 2010

The above samples were submitted by the client.

Analysis is in accordance with in-house Asbestos Technical Procedures - BULK ID, based upon HSE guidance note HSG 248 "Asbestos: The Analysts' Guide For Sampling, Analysis and Clearance Procedures", and quantification of Asbestos in Soil (QAS). Sampling by WSP RMS is in accordance with Asbestos Technical Procedures - Bulk Sampling. Where the sample was not taken by WSP RMS, the information above is that which is supplied by the client. WSP is not responsible for sampling errors where the sample is taken by others. If taken by a third party, WSP RMS cannot be held responsible for any incorrect information submitted. Opinions and interpretations expressed herein, such as the material type, amount of asbestos fibre, and type of non-asbestos fibre, are outside the scope of UKAS accreditation. The amount of asbestos (w/w) within the sample is determined by in-house Asbestos Technical procedure QAS. Samples with an asbestos content of above 0.1% are classified as special waste.
Limits of detection & accuracy depends on initial sample mass. The minimum mass that can be practically weighed is 0.001g & the optimum mass of 500g gives a limit of detection of (0.001/500)x100 = 0.0002%. To give confidence in the results, a minimum mass of 100g is used (giving a limit of detection of 0.01%). Around the reporting level of 0.1% the uncertainty of measurement equals 0.012%.
Information supplied by e-mail may be subject to error during transfer.

WSP Environmental Risk Management Services Division

Registered Office:
WSP House
70 Chancery Lane
London
WC2A 1AF

Registered Number
1152332 England

ALSAGER CONTRACTORS LTD

(SKIP HIRE & WASTE DISPOSAL)
TELEPHONE: (01270) 884296 FAX: (01270) 874483

The Hazardous Waste Regulations 2005: Consignment Note

Environment Agency

1. Consignment note code: NVR934 D0555

2. The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
REDDISH NORTH PRIMARY SCH, MILL LANE, REDDISH, STOCKPORT – SK5 6TP

3. Premises code (where applicable): NVR934

4. The waste will be taken to (name, address and postcode):
*ALSAGER CONTRACTORS TRANSFER STATION, CHEMICAL LA LONGPORT,STOKE-ON-TRENT, STAFFS- ST6 4PU

5. The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):
JC ASBESTOS SOLUTIONS LTD,18 OLD SCHOOL DRIVE LONGTON, PRESTON - PR4 5YU
12/08/10

1. The process giving rise to the waste(s) was *ASBESTOS REMOVAL SIC for the process giving rise to the waste: 45 - 25

3. WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	Lists of wastes (SWC code)(6 digits)	Quantity (kg)	The chemical/biological components of the waste and their concentrations are*		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
ASBESTOS	170601	AMOSITE		0.1 % >	SOLID	H7	
ASBESTOS	170605	CHRYSOTILE		0.1 % >	SOLID	H7	

The information given below is to be completed for each EWC identified

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements
170601		NOT SUBJECT TO ADR SP 168			
170605					

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

1. Carrier name: M WAIN
On behalf of (name, address, postcode, telephone, e-mail, facsimile):
*ALSAGER CONTRACTORS –ST6 4PU

2. Carrier registration no./reason for exemption:
CB/XP3492MZ

3. Vehicle registration no. (or mode of transport, if not road):
Tom 17 T.

Signature: M. Wain.

Date: 29/11/2010 Time: AM

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

1. Consignor name: S. WEST.
On behalf of (name, address, postcode, telephone, e-mail, facsimile):
JC ASBESTOS SOLUTIONS- PR4 5YU

Signature:

Date: 29/11/2010 Time: AM

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste disposal or recovery code (R or D code)
170601	1640	ACCEPTED	ASBESTOS WASTE
170605			ALSAGER CONTRACTORS LTD TRF. STN. CHEMICAL LANE, LONGPORT S-O-T ST6 4PU TEL 01270 884296

1. I received this waste at the address given in A4 on: Date 29/11/2010 Time PM

2. Vehicle registration no. (or mode of transport if not road):
Tom 17 T.

3. Where waste is rejected please provide details:

Name:
On behalf of (name, address, postcode, telephone, e-mail, facsimile):
ALSAGER CONTRACTORS CHEMICAL LA LONGPORT STOKE-ON-TRENT STAFFORDSHIRE ST6 4PU

I certify that waste management license/permit/authorised exemption:
RP3437SW
authorises the management of the waste described in B at the address given in A4.

Signature:

Date: 29/11/2010 Time: PM

Green - Consignor's Copy Yellow - Carrier's Copy Pink - Consignee's Copy

The Hazardous Waste Regulations 2005: Consignment Note

Environment Agency

PRODUCER'S/HOLDER'S/CONSIGNOR'S COPY (Delete as appropriate)

1 Consignment note code: NVR934/JCAS1

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
REDISH NORTH PRIMARY SCHOOL
MILL LANE
REDDISH
STOCKPORT SK5 6TD

3 Premises code (where applicable): NV2934

4 The waste will be taken to (name, address and postcode):
J. DICKINSONS HRF
STATION RD
BLACKROD
BOLTON BL6 5BD.

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):
J.C. ASBESTOS SOLUTIONS LTD
18 OLD SCHOOL DRIVE
LOWTON MARTON PR4 5HU.

1 The process giving rise to the waste(s) was: ASBESTOS REMOVAL 2 SIC for the process giving rise to the waste: 45.251

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components of the waste and their concentrations are: Component	Concentration (% or mg/kg)	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
ALB	170601	<500	ANOSITE	40-60%	SOLID	H7	50 BAGS
ASBESTOS CEMENT	170605		CHRYSOTILE	10-15%	SOLID	H7	

The information given below is to be completed for each EWC identified

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements
170601	II	2212	BROWN ASBESTOS	9	DOUBLE BAG &
170605	III	2590	WHITE ASBESTOS	9	TAPE SEAL.

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A3, A4 and B3 are correct and I have been advised of any specific handling requirements.

1 Carrier name: SIMON BRYAN

On behalf of (name, address, postcode, telephone, e-mail, facsimile):
JC ASBESTOS SOLUTIONS LTD
18 OLD SCHOOL DRIVE
LOWTON MARTON PR4 5HU.

2 Carrier registration no./reason for exemption:
CB/GM 3757 GN

3 Vehicle registration no. (for mode of transport, if not road): P608 LHA.

Signature

Date 12/08/2010 Time 1600

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

1 Consignor name: Simon Bryan

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

A5 A5

Signature

Date 12/08/2010 Time 1600

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170601		✓	D15
170605		✓	D15

1 I received this waste at the address given in A4 on: Date 12/08/2010 Time

2 Vehicle registration no. (for mode of transport if not road): P608 LHA

3 Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s).

EA WML 54830

authorises the management of the waste described in B at the address given in A4.

Name: M. Hulse

On behalf of (name, address, postcode, telephone, e-mail, facsimile):
J. Dickinson + Sons
Station Road
Blackrod
Bolton

Signature

Date 12/08/2010 Time

HWCN01v051

Appendix C Imported Soils Laboratory Analysis

C.1 Laboratory Analysis

C.2 Statistical Analysis

Jonathan Evans
Urban Vision Partnership Ltd
Environment - 3rd Floor
Emerson House
Albert Street
Eccles
Manchester M30 0TE

UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

QTS Environmental Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 851105
russell.jarvis@qtsenvironmental.com

QTS Environmental Report No: 6641

Site Reference: Reddish North Primary School

Project / Job Ref: UV/000174-04

Order No: ZUVI 0929

Sample Receipt Date: 20/07/2011

Sample Scheduled Date: 20/07/2011

Report Issue Number: 1

Reporting Date: 22/07/2011

Authorised by:

Russell Jarvis
Director
On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
Director
On behalf of QTS Environmental Ltd

QTS Environmental Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 851105

UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

Soil Analysis Certificate							
QTS Environmental Report No: 6641	**Date Sampled**	19/07/11	19/07/11	19/07/11	19/07/11	19/07/11
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	SV4	SV4	SV5	SV6	SV6
Project / Job Ref: UV/000174-04	**Additional Refs**	C1	C2	C1	C1	C2
Order No: ZUVI 0929	**Depth (m)**	0.05	0.20	0.20	0.10	0.20
Reporting Date: 22/07/2011	**QTSE Sample No**	29426	29427	29428	29429	29430

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	6.8	7.0	7.3	7.8	7.0
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	300	658	656	412	512
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	<200	235	232	<200	242
Organic Matter	%	<0.1	NONE	0.3	1.8	0.5	2.1	4.3
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.002	0.01	0.003	0.012	0.025
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	<2	<2	<2	<2	<2
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	MCERTS	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	MCERTS	11	6	5	8	6
Copper (Cu)	mg/kg	<4	MCERTS	<4	11	9	<4	13
Lead (Pb)	mg/kg	<3	MCERTS	7	24	16	5	23
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	MCERTS	7	6	5	7	6
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	MCERTS	18	37	24	17	33

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C
Analysis carried out on the dried sample is corrected for the stone content
Stone content is classified as material greater than 10mm in diameter
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample

QTS Environmental Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 851105

UKAS TESTING 4480 mCERTS 4480

Soil Analysis Certificate							
QTS Environmental Report No: 6641	**Date Sampled**	19/07/11	19/07/11	19/07/11	19/07/11	19/07/11
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	SV7	SV8	SV9	SV10	SV10
Project / Job Ref: UV/000174-04	**Additional Refs**	C1	C1	C1	C1	C2
Order No: ZUVI 0929	**Depth (m)**	0.20	0.10	0.20	0.05	0.20
Reporting Date: 22/07/2011	**QTSE Sample No**	29431	29432	29433	29434	29435

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	7.3	7.8	7.8	7.8	7.3
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	525	<200	468	246	392
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	<200	<200	244	<200	212
Organic Matter	%	<0.1	NONE	1.8	1.6	2.2	0.3	2.1
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.011	0.009	0.013	0.001	0.012
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	<2	<2	<2	<2	<2
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	MCERTS	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	MCERTS	5	9	4	9	6
Copper (Cu)	mg/kg	<4	MCERTS	7	<4	7	<4	10
Lead (Pb)	mg/kg	<3	MCERTS	12	6	12	6	20
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	1.5
Nickel (Ni)	mg/kg	<3	MCERTS	4	7	4	7	5
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	MCERTS	21	17	22	18	28

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C
Analysis carried out on the dried sample is corrected for the stone content
Stone content is classified as material greater than 10mm in diameter
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample

QTS Environmental Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 851105

UKAS TESTING 4480 mCERTS 4480

Soil Analysis Certificate							
QTS Environmental Report No: 6641	**Date Sampled**	19/07/11	19/07/11	19/07/11	19/07/11	19/07/11
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	SV11	SV11	SV12	SV12	SV13
Project / Job Ref: UV/000174-04	**Additional Refs**	C1	C2	C1	C2	C1
Order No: ZUVI 0929	**Depth (m)**	0.05	0.20	0.05	0.20	0.20
Reporting Date: 22/07/2011	**QTSE Sample No**	29436	29437	29438	29439	29440

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	7.7	7.3	7.2	7.4	7.4
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	<200	552	<200	569	431
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	<200	261	<200	208	222
Organic Matter	%	<0.1	NONE	1.1	3.3	1.3	0.3	1.5
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.006	0.019	0.007	0.002	0.009
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	<2	<2	<2	<2	<2
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	MCERTS	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	MCERTS	9	6	9	6	5
Copper (Cu)	mg/kg	<4	MCERTS	4	11	4	10	10
Lead (Pb)	mg/kg	<3	MCERTS	6	22	7	17	15
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	MCERTS	7	6	7	5	5
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	MCERTS	19	33	18	35	25

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C
Analysis carried out on the dried sample is corrected for the stone content
Stone content is classified as material greater than 10mm in diameter
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample

QTS Environmental Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 851105

4480 4480

Soil Analysis Certificate							
QTS Environmental Report No: 6641	**Date Sampled**	19/07/11	19/07/11	19/07/11	19/07/11	19/07/11
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	SV14	SV14	SV16	SV18	SV19
Project / Job Ref: UV/000174-04	**Additional Refs**	C1	C2	C1	C1	C1
Order No: ZUVI 0929	**Depth (m)**	0.05	0.20	0.10	0.40	0.40
Reporting Date: 22/07/2011	**QTSE Sample No**	29441	29442	29443	29444	29445

Determinand	**Unit**	**MDL**	**Accreditation**					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative

General Inorganics	**Unit**	**MDL**	**Accreditation**					
pH	pH Units	+ / - 0.1	**MCERTS**	7.6	7.2	7.1	7.0	7.1
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	<200	437	558	588	656
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	<200	223	235	250	224
Organic Matter	%	<0.1	NONE	1.1	2.4	3.1	3.5	2
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.006	0.014	0.018	0.021	0.012
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	**Unit**	**MDL**	**Accreditation**					
Arsenic (As)	mg/kg	<2	**MCERTS**	<2	<2	2	2	<2
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	**MCERTS**	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	**MCERTS**	9	5	7	7	6
Copper (Cu)	mg/kg	<4	**MCERTS**	<4	10	19	13	11
Lead (Pb)	mg/kg	<3	**MCERTS**	4	25	28	42	486
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	**MCERTS**	6	5	6	6	6
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	**MCERTS**	18	31	36	39	34

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{O}C
Analysis carried out on the dried sample is corrected for the stone content
Stone content is classified as material greater than 10mm in diameter
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample

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4480 **4480**

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 6641	**Date Sampled**	19/07/11	19/07/11	19/07/11	19/07/11	19/07/11
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	SV4	SV4	SV5	SV6	SV6
Project / Job Ref: UV/000174-04	**Additional Refs**	C1	C2	C1	C1	C2
Order No: ZUVI 0929	**Depth (m)**	0.05	0.20	0.20	0.10	0.20
Reporting Date: 22/07/2011	**QTSE Sample No**	29426	29427	29428	29429	29430

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	<0.1	0.20	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	MCERTS	<0.1	0.17	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	0.17	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	<1.6	<1.6	<1.6	<1.6	<1.6

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

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4480 **4480**

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 6641	**Date Sampled**	19/07/11	19/07/11	19/07/11	19/07/11	19/07/11
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	SV7	SV8	SV9	SV10	SV10
Project / Job Ref: UV/000174-04	**Additional Refs**	C1	C1	C1	C1	C2
Order No: ZUVI 0929	**Depth (m)**	0.20	0.10	0.20	0.05	0.20
Reporting Date: 22/07/2011	**QTSE Sample No**	29431	29432	29433	29434	29435

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	0.14
Anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	0.41
Pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	0.35
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	0.15
Chrysene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	0.18
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	0.15
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	<1.6	<1.6	<1.6	<1.6	<1.6

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

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4480 **4480**

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 6641	**Date Sampled**	19/07/11	19/07/11	19/07/11	19/07/11	19/07/11
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	SV11	SV11	SV12	SV12	SV13
Project / Job Ref: UV/000174-04	**Additional Refs**	C1	C2	C1	C2	C1
Order No: ZUVI 0929	**Depth (m)**	0.05	0.20	0.05	0.20	0.20
Reporting Date: 22/07/2011	**QTSE Sample No**	29436	29437	29438	29439	29440

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	<0.1	0.14	<0.1	<0.1	0.19
Pyrene	mg/kg	<0.1	MCERTS	<0.1	0.14	<0.1	<0.1	0.17
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	<1.6	<1.6	<1.6	<1.6	<1.6

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 6641	**Date Sampled**	19/07/11	19/07/11	19/07/11	19/07/11	19/07/11
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Reddish North Primary School	**TP / BH No**	SV14	SV14	SV16	SV18	SV19
Project / Job Ref: UV/000174-04	**Additional Refs**	C1	C2	C1	C1	C1
Order No: ZUVI 0929	**Depth (m)**	0.05	0.20	0.10	0.40	0.40
Reporting Date: 22/07/2011	**QTSE Sample No**	29441	29442	29443	29444	29445

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	<0.1	0.15	<0.1	0.22	0.24
Pyrene	mg/kg	<0.1	MCERTS	<0.1	0.14	<0.1	0.21	0.21
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	0.11	0.12
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	0.12	0.13
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	<1.6	<1.6	<1.6	<1.6	<1.6

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

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4480 4480

Soil Analysis Certificate - Sample Descriptions	
QTS Environmental Report No: 6641	
Urban Vision Partnership Ltd	
Site Reference: Reddish North Primary School	
Project / Job Ref: UV/000174-04	
Order No: ZUVI 0929	
Reporting Date: 22/07/2011	

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
29426	SV4	C1	0.05	12	Red
29427	SV4	C2	0.20	14.7	Brown with brick
29428	SV5	C1	0.20	14.9	Brown sandy loam
29429	SV6	C1	0.10	12.2	Red sandy loam
29430	SV6	C2	0.20	15.8	Brown sandy loam with brick
29431	SV7	C1	0.20	13.1	Brown sandy loam with brick
29432	SV8	C1	0.10	11.6	Red sandy loam
29433	SV9	C1	0.20	12.7	Brown sandy loam with brick
29434	SV10	C1	0.05	11.7	Red sandy loam
29435	SV10	C2	0.20	13.3	Brown sandy loam
29436	SV11	C1	0.05	12.4	Red sandy loam
29437	SV11	C2	0.20	14.5	Brown sandy loam
29438	SV12	C1	0.05	18.4	Red clayey sand
29439	SV12	C2	0.20	14.6	Brown clayey sand
29440	SV13	C1	0.20	13.4	Brown sandy loam
29441	SV14	C1	0.05	13.4	Red sandy loam
29442	SV14	C2	0.20	14.7	Brown sandy loam
29443	SV16	C1	0.10	21.4	Brown clayey sand
29444	SV18	C1	0.40	12	Brown sandy loam
29445	SV19	C1	0.40	10.6	Brown sandy loam

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Soil Analysis Certificate - Methodology & Misceallaneous Information
QTS Environmental Report No: 6641
Urban Vision Partnership Ltd
Site Reference: Reddish North Primary School
Project / Job Ref: UV/000174-04
Order No: ZUVI 0929
Reporting Date: 22/07/2011

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	AR	Asbestos Screening	Visual screening of samples for fibrous material	E024
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water followed by titration using silver nitrate	E021
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by turbidimeter	E020
Soil	D	Fluoride - Water Soluble	Test Kit	E023
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	D	Loss on Ignition @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	D	Phosphorus	Determination of phosphorus by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	AR	Sulphide	Determination of sulphide by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia, potassium iodide/iodate followed by ICP-OES	E002
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E009
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E009
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E010
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E009
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VPH (C6 - C10)	Determination of hydrocarbons C6-C10 by headspace GC-MS	E001
Soil	AR	EPH TEXAS	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	TPH CWG	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	TPH LQM	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	EPH (with florisil cleanup)	Determination of acetone/hexane extractable hydrocarbons with florisil cleanup step by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001

Key

D Dried
AR As Received

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QTS Environmental Report No: 6493

Site Reference: Reddish North Primary School

Project / Job Ref: UV/00174-04

Order No: ZUVI 0920

Sample Receipt Date: 07/07/2011

Sample Scheduled Date: 07/07/2011

Report Issue Number: 1

Reporting Date: 11/07/2011

Authorised by:

Russell Jarvis
Director
On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
Director
On behalf of QTS Environmental Ltd

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Soil Analysis Certificate							
QTS Environmental Report No: 6493	**Date Sampled**	04/07/11	04/07/11	04/07/11		
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: Reddish North Primary School	**TP / BH No**	SV1	SV2	SV3		
Project / Job Ref: UV/00174-04	**Additional Refs**	C1	C2	C2		
Order No: ZUVI 0920	**Depth (m)**	0.05	0.20	0.20		
Reporting Date: 11/07/2011	**QTSE Sample No**	28695	28696	28697		

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1		
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative		

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	7.0	7.4	7.5		
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2		
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2		
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3		
Total Sulphate as SO_4	mg/kg	<200	NONE	247	683	356		
Sulphide	mg/kg	<5	NONE	<5	<5	<5		
Total Sulphur	mg/kg	<200	NONE	<200	242	225		
Organic Matter	%	<0.1	NONE	1	2.9	3.3		
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.006	0.017	0.019		
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2		

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	<2	<2	<2		
W/S Boron	mg/kg	<1	NONE	<1	<1	<1		
Cadmium (Cd)	mg/kg	<0.5	MCERTS	<0.5	<0.5	<0.5		
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2		
Chromium (Cr)	mg/kg	<2	MCERTS	8	6	6		
Copper (Cu)	mg/kg	<4	MCERTS	<4	10	10		
Lead (Pb)	mg/kg	<3	MCERTS	4	18	15		
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1		
Nickel (Ni)	mg/kg	<3	MCERTS	7	5	5		
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3		
Zinc (Zn)	mg/kg	<3	MCERTS	18	32	29		

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C
Analysis carried out on the dried sample is corrected for the stone content
Stone content is classified as material greater than 10mm in diameter
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample

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4480 **4480**

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 6493	**Date Sampled**	04/07/11	04/07/11	04/07/11		
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied		
Site Reference: Reddish North Primary School	**TP / BH No**	SV1	SV2	SV3		
Project / Job Ref: UV/00174-04	**Additional Refs**	C1	C2	C2		
Order No: ZUVI 0920	**Depth (m)**	0.05	0.20	0.20		
Reporting Date: 11/07/2011	**QTSE Sample No**	28695	28696	28697		

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Phenanthrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Chrysene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1		
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	<1.6	<1.6	<1.6		

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C

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UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

Soil Analysis Certificate - Sample Descriptions	
QTS Environmental Report No: 6493	
Urban Vision Partnership Ltd	
Site Reference: Reddish North Primary School	
Project / Job Ref: UV/00174-04	
Order No: ZUVI 0920	
Reporting Date: 11/07/2011	

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
28695	SV1	C1	0.05	6.9	Red sandy loam
28696	SV2	C2	0.20	10.8	Brown sandy loam
28697	SV3	C2	0.20	10.7	Brown sandy loam

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UKAS TESTING 4480 mCERTS 4480

Soil Analysis Certificate - Methodology & Misceallaneous Information
QTS Environmental Report No: 6493
Urban Vision Partnership Ltd
Site Reference: Reddish North Primary School
Project / Job Ref: UV/00174-04
Order No: ZUVI 0920
Reporting Date: 11/07/2011

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	AR	Asbestos Screening	Visual screening of samples for fibrous material	E024
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water followed by titration using silver nitrate	E021
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by turbidimeter	E020
Soil	D	Fluoride - Water Soluble	Test Kit	E023
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	D	Loss on Ignition @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	D	Phosphorus	Determination of phosphorus by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	AR	Sulphide	Determination of sulphide by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia, potassium iodide/iodate followed by ICP-OES	E002
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E009
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E009
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E010
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E009
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VPH (C6 - C10)	Determination of hydrocarbons C6-C10 by headspace GC-MS	E001
Soil	AR	EPH TEXAS	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	TPH CWG	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	TPH LQM	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	EPH (with florisil cleanup)	Determination of acetone/hexane extractable hydrocarbons with florisil cleanup step by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001

Key

D Dried
AR As Received

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UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

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QTS Environmental Report No: 4452

Site Reference: Redish P.S.

Project / Job Ref: UV/000174-04

Order No: ZUVI 0815

Sample Receipt Date: 23/11/10

Sample Scheduled Date: 23/11/10

Report Issue Number: 1

Reporting Date: 29/11/2010

Authorised by:

Russell Jarvis
Director
On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
Director
On behalf of QTS Environmental Ltd

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4480 4480

Soil Analysis Certificate							
QTS Environmental Report No: 4452	**Date Sampled**	22/11/10	22/11/10	22/11/10	22/11/10	22/11/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	IT03	IT04	IT05	IT06	IT07
Project / Job Ref: UV/000174-04	**Additional Refs**	C1	C1	C1	C1	C1
Order No: ZUVI 0815	**Depth (m)**	0.20	0.30	0.30	0.30	0.30
Reporting Date: 29/11/2010	**QTSE Sample No**	18571	18572	18573	18574	18575

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1	<0.1	<0.1	<0.1
Moisture Content	%	<0.1	NONE	28.1	28.6	27.9	30.2	30.5
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative	Negative	Negative	Negative

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	7.2	6.1	6.3	6.2	6.4
Total Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Free Cyanide	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Total Sulphate as SO_4	mg/kg	<200	NONE	505	505	450	439	432
Sulphide	mg/kg	<5	NONE	<5	<5	<5	<5	<5
Total Sulphur	mg/kg	<200	NONE	483	451	398	436	454
Organic Matter	%	<0.1	NONE	4.6	4.9	7.2	5.3	9.5
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.026	0.028	0.042	0.031	0.055
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2	<2	<2	<2

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	13	13	14	12	13
W/S Boron	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Cadmium (Cd)	mg/kg	<0.5	MCERTS	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2	<2	<2	<2
Chromium (Cr)	mg/kg	<2	MCERTS	18	19	17	17	21
Copper (Cu)	mg/kg	<4	MCERTS	38	32	28	28	34
Lead (Pb)	mg/kg	<3	MCERTS	184	78	73	72	79
Mercury (Hg)	mg/kg	<1	NONE	<1	<1	<1	<1	<1
Nickel (Ni)	mg/kg	<3	MCERTS	14	13	13	12	13
Selenium (Se)	mg/kg	<3	NONE	<3	<3	<3	<3	<3
Zinc (Zn)	mg/kg	<3	MCERTS	91	82	73	75	80

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
Analysis carried out on the dried sample is corrected for the stone content
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample

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UKAS TESTING 4480 mCERTS 4480

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 4452	**Date Sampled**	22/11/10	22/11/10	22/11/10	22/11/10	22/11/10
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Redish P.S.	**TP / BH No**	IT03	IT04	IT05	IT06	IT07
Project / Job Ref: UV/000174-04	**Additional Refs**	C1	C1	C1	C1	C1
Order No: ZUVI 0815	**Depth (m)**	0.20	0.30	0.30	0.30	0.30
Reporting Date: 29/11/2010	**QTSE Sample No**	18571	18572	18573	18574	18575

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	0.31	<0.1	<0.1	0.18	0.14
Anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	0.47	0.17	0.19	0.20	0.21
Pyrene	mg/kg	<0.1	MCERTS	0.44	0.14	0.18	0.18	0.18
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.18	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	MCERTS	0.21	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.13	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.15	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	0.14	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.21	0.17	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	<0.1	<0.1	<0.1	<0.1	<0.1

Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	2.23	<1.6	<1.6	<1.6	<1.6

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

Soil Analysis Certificate - Sample Descriptions	
QTS Environmental Report No: 4452	
Urban Vision Partnership Ltd	
Site Reference: Redish P.S.	
Project / Job Ref: UV/000174-04	
Order No: ZUVI 0815	
Reporting Date: 29/11/2010	

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Sample Matrix Description
18571	IT03	C1	0.20	Brown loamy clay with vegetation
18572	IT04	C1	0.30	Brown loamy clay with vegetation
18573	IT05	C1	0.30	Brown loamy clay with vegetation
18574	IT06	C1	0.30	Brown loamy clay with vegetation
18575	IT07	C1	0.30	Brown loamy clay with vegetation

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UKAS TESTING 4480 mCERTS 4480

Soil Analysis Certificate - Methodology & Misceallaneous Information
QTS Environmental Report No: 4452
Urban Vision Partnership Ltd
Site Reference: Redish P.S.
Project / Job Ref: UV/000174-04
Order No: ZUVI 0815
Reporting Date: 29/11/2010

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	AR	Asbestos Screening	Visual screening of samples for fibrous material	E024
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water followed by titration using silver nitrate	E021
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by turbidimeter	E020
Soil	D	Fluoride - Water Soluble	Test Kit	E023
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	D	Loss on Ignition @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	D	Phosphorus	Determination of phosphorus by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	AR	Sulphide	Determination of sulphide by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia, potassium iodide/iodate followed by ICP-OES	E002
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E009
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E009
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E010
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E009
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VPH (C6 - C10)	Determination of hydrocarbons C6-C10 by headspace GC-MS	E001
Soil	AR	EPH TEXAS	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	TPH CWG	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	TPH LQM	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	EPH (with florisil cleanup)	Determination of acetone/hexane extractable hydrocarbons with florisil cleanup step by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001

Key

D Dried
AR As Received

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QTS Environmental Report No: 4332

Site Reference: Redish P.S.

Project / Job Ref: UV/00174-04

Order No: ZUV10811

Sample Receipt Date: 11/11/10

Sample Scheduled Date: 11/11/10

Report Issue Number: 1

Reporting Date: 17/11/2010

Authorised by:

Russell Jarvis
Director
On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
Director
On behalf of QTS Environmental Ltd

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4480 4480

Soil Analysis Certificate							
QTS Environmental Report No: 4332	**Date Sampled**	09/11/10	09/11/10				
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied				
Site Reference: Redish P.S.	**TP / BH No**	Imported Topsoil	Imported Topsoil				
Project / Job Ref: UV/00174-04	**Additional Refs**	IT1	IT2				
Order No: ZUV10811	**Depth (m)**	None Supplied	None Supplied				
Reporting Date: 17/11/2010	**QTSE Sample No**	17964	17965				

Determinand	Unit	MDL	Accreditation					
Stone Content	%	<0.1	NONE	<0.1	<0.1			
Moisture Content	%	<0.1	NONE	34.6	32.7			
Asbestos Screen	Positive / Negative	N/a	NONE	Negative	Negative			

General Inorganics	Unit	MDL	Accreditation					
pH	pH Units	+ / - 0.1	MCERTS	6.4	6.3			
Total Cyanide	mg/kg	<2	NONE	<2	<2			
Free Cyanide	mg/kg	<2	NONE	<2	<2			
Thiocyanate as SCN	mg/kg	<3	NONE	<3	<3			
Total Sulphate as SO_4	mg/kg	<200	NONE	1121	1407			
Sulphide	mg/kg	<5	NONE	<5	<5			
Total Sulphur	mg/kg	<200	NONE	766	729			
Organic Matter	%	<0.1	NONE	11	11.1			
Fraction Organic Carbon (FOC)	Value	<0.001	NONE	0.064	0.064			
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2			

Metals	Unit	MDL	Accreditation					
Arsenic (As)	mg/kg	<2	MCERTS	29	27			
W/S Boron	mg/kg	<1	NONE	<1	<1			
Cadmium (Cd)	mg/kg	<0.5	MCERTS	0.8	0.8			
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2			
Chromium (Cr)	mg/kg	<2	MCERTS	27	27			
Copper (Cu)	mg/kg	<4	MCERTS	76	74			
Lead (Pb)	mg/kg	<3	MCERTS	164	175			
Mercury (Hg)	mg/kg	<1	NONE	<1	<1			
Nickel (Ni)	mg/kg	<3	MCERTS	31	31			
Selenium (Se)	mg/kg	<3	NONE	<3	<3			
Zinc (Zn)	mg/kg	<3	MCERTS	149	151			

Analytical results are expressed on a dry weight basis where samples are dried at less than 30 ^{o}C
Analysis carried out on the dried sample is corrected for the stone content
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample

QTS Environmental Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 851105

4480 4480

Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 4332	**Date Sampled**	09/11/10	09/11/10			
Urban Vision Partnership Ltd	**Time Sampled**	None Supplied	None Supplied			
Site Reference: Redish P.S.	**TP / BH No**	Imported Topsoil	Imported Topsoil			
Project / Job Ref: UV/00174-04	**Additional Refs**	IT1	IT2			
Order No: ZUV10811	**Depth (m)**	None Supplied	None Supplied			
Reporting Date: 17/11/2010	**QTSE Sample No**	17964	17965			

Determinand	Unit	MDL	Accreditation					
Naphthalene	mg/kg	<0.1	MCERTS	<0.1	<0.1			
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1			
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1			
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1			
Phenanthrene	mg/kg	<0.1	MCERTS	0.98	0.86			
Anthracene	mg/kg	<0.1	MCERTS	0.20	0.19			
Fluoranthene	mg/kg	<0.1	MCERTS	1.40	1.22			
Pyrene	mg/kg	<0.1	MCERTS	1.35	1.14			
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	0.47	0.42			
Chrysene	mg/kg	<0.1	MCERTS	0.57	0.49			
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	0.28	0.20			
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	0.34	0.40			
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	0.34	0.28			
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	0.40	0.42			
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1			
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	<0.1	<0.1			

Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	6.32	5.63			

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{0}C

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UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

Soil Analysis Certificate - Sample Descriptions	
QTS Environmental Report No: 4332	
Urban Vision Partnership Ltd	
Site Reference: Redish P.S.	
Project / Job Ref: UV/00174-04	
Order No: ZUV10811	
Reporting Date: 17/11/2010	

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Sample Matrix Description
17964	Imported Topsoil	IT1	None Supplied	Brown loamy clay with vegetation
17965	Imported Topsoil	IT2	None Supplied	Brown loamy clay with vegetation

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Maidstone
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Tel : 01622 851105

UKAS TESTING 4480 mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME 4480

Soil Analysis Certificate - Methodology & Misceallaneous Information
QTS Environmental Report No: 4332
Urban Vision Partnership Ltd
Site Reference: Redish P.S.
Project / Job Ref: UV/00174-04
Order No: ZUV10811
Reporting Date: 17/11/2010

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	AR	Asbestos Screening	Visual screening of samples for fibrous material	E024
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water followed by titration using silver nitrate	E021
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by turbidimeter	E020
Soil	D	Fluoride - Water Soluble	Test Kit	E023
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	D	Loss on Ignition @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	D	Phosphorus	Determination of phosphorus by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	AR	Sulphide	Determination of sulphide by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia, potassium iodide/iodate followed by ICP-OES	E002
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E011
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E009
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E009
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E010
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E009
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VPH (C6 - C10)	Determination of hydrocarbons C6-C10 by headspace GC-MS	E001
Soil	AR	EPH TEXAS	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	TPH CWG	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	TPH LQM	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	EPH (with florisil cleanup)	Determination of acetone/hexane extractable hydrocarbons with florisil cleanup step by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001

Key

D Dried
AR As Received

Summary of Statistics

Geology:	**Imported soils**
Site End Use:	**Residential With Plant Uptake**
Soil Type:	**Sand - 1% SOM**

Project Number UV/000174-04

Client: BAM

Compound	GAC (mg/kg)	No. Samples	Range of values (mg/kg)	No. exceeding GAC	Normality	No. Outliers	Test	$UCL_{95\%}$ (of the true population mean)	Test Result
Metals									
Arsenic SGV	32	14	2 - 2.364	0	Not Normal	1	c	2.1	PASS
Boron	291	14	1 - 1	0					
Cadmium SGV	10	14	0.5 - 0.5	0					
Chromium VI	4.3	14	2 - 2	0					
Copper	2330	14	6.887 - 13.41	0	Normal	None	t	11.1	PASS
Lead	450	14	11.88 - 485.6	1	Not Normal	2	c	198.6	PASS
Mercury SGV	170	14	1 - 1.48	0	Not Normal	1	c	1.2	PASS
Nickel SGV	130	14	4.312 - 6.434	0	Normal	None	t	5.6	PASS
Selenium SGV	350	14	3 - 3	0					
Vanadium	200	0							
Zinc	3750	14	21.04 - 38.9	0	Normal	None	t	32.9	PASS
Non-Metals									
Inorganic Cyanide	780	0							
TPH									
Aliphatic C5-6	17	0							
Aliphatic C6-8	33	0							
Aliphatic C8-10	7.8	0							
Aliphatic C10-12	44	0							
Aliphatic C12-16	210	0							
Aliphatic C16-21	N/A	0							
Aliphatic C21-35	N/A	0							
Aliphatic C16-35	17000	0							
Aromatic C8-10	11	0							
Aromatic C10-12	35	0							
Aromatic C12-16	91	0							
Aromatic C16-21	200	0							
Aromatic C21-35	790	0							
VOCs									
Benzene SGV	0.054	0							
Chloroethene	0.00024	0							
1,2-Dichloroethane	0.0022	0							
Ethylbenzene SGV	42	0							
Naphthalene	5.5	0							
Tetrachloroethanes	0.41	0							
Tetrachloroethene	0.53	0							
Tetrachloromethane	0.0077	0							
Toluene SGV	92	0							
1,1,1-Trichloroethane	2.6	0							
Trichloroethene	0.045	0							
Xylenes SGV	20	0							
SVOCs									
Benz[a]anthracene	4.7	14	0.1 - 0.147	0	Not Normal	1	c	0.1	PASS
Benzo[a]pyrene	0.94	14	0.1 - 0.1	0					
Benzo[b]fluoranthene	6.5	14	0.1 - 0.172	0	Not Normal	4	c	0.1	PASS
Benzo[ghi]perylene	46	14	0.1 - 0.1	0					
Benzo[k]fluoranthene	9.6	14	0.1 - 0.1	0					
Chrysene	8	14	0.1 - 0.181	0	Not Normal	3	c	0.1	PASS
Dibenz[ah]anthracene	0.86	14	0.1 - 0.1	0					
Fluoranthene	460	14	0.1 - 0.408	0	Not Normal	1	c	0.3	PASS
Indeno[123-cd]pyrene	3.9	14	0.1 - 0.1	0					
Naphthalene	3.7	14	0.1 - 0.1	0					
Phenol SGV	150	0							
Pyrene	1000	0							

Certificate of Compliance

with the British Standards Institution's
Publicly Available Specification
for Composted Materials (PAS 100:2005) and
the Quality Compost Protocol (2007)

PAS 100 & CQP
CERTIFIED
AfOR Scheme

Soil improver and Ingredient in growing media and topsoils

0 to 12 millimetre particle grade

Certified product ST1-0012

12 to 40 millimetre particle grade

Certified product ST1-1240

Produced by Sita

using an outdoor windrow process at

Clifton Marsh Landfill Site, Off Lytham Road Freckleton, Preston, Lancashire .

Issued 7th February 2011 **Expires 31st January 2012**

Signed by : ..... Roy Lawford – Certification Officer

ORGANIC FARMERS & GROWERS

This certificate is issued on behalf of the Composting Association by Organic Farmers & Growers Ltd.
The Old Estate Yard, Shrewsbury Rd, Albrighton, Shrewsbury, SY4 3AG Tel: 01939 291800 / 0845 330 5122
This certificate remains the property of the issuer and is returnable whilst valid in the event of suspension or withdrawal from the certification scheme of one or more of the above certified composts

Appendix D Logs

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Albert Street, Eccles
M30 0TE
M30 0TE

Trialpit No
C01
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.20m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.20	ES					MADE GROUND: Topsoil comprising firm to stiff brown slightly gravelly sandy CLAY with frequent roolets. Gravel is fine to medium, angular to rounded and consists of brick, sandstone, occasional quartzite, ash and rare plastic fragment (1). (MG)
			0.20			Trialpit Complete at 0.20 m

Remarks: None

Groundwater: None

AGS

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Trialpit No
C02
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.25m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.20	ES					MADE GROUND: Brown silty sandy medium angular to rounded GRAVEL. Gravel consists of sandstone, occasional quartzite, rare brick and plastic fragments (1). (MG)
			0.25			Trialpit Complete at 0.25 m

Remarks: None

Groundwater: None

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Urban Vision Environment Team
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M30 0TE
M30 0TE

Trialpit No
C03
Sheet 1 of 1

Project Name: Reddish North Primary School and Childrens Centre, Stockport	Project No.: UV0001.34	Co-ords: - Level: -	Date: 14/06/2010
Location: Reddish, Stockport		Dimensions: - Depth 0.20m	Scale: 1:10
Client: BAM Construction			Logged By: J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.20	ES		0.20			MADE GROUND: Firm to stiff brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is fine to medium, angular to rounded and consists of sandstone, occasional quartzite, brick, rare concrete and ash. (MG)
						Trialpit Complete at 0.20 m

Remarks: None

Groundwater: None

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Trialpit No
C04
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.20m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.20	ES					MADE GROUND: Topsoil comprising firm to stiff brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to medium, angular to rounded and consists of sandstone, brick, ash and rare ceramics (1). (MG)
			0.20			Trialpit Complete at 0.20 m

1

Remarks: None

Groundwater: None

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Trialpit No
C05
Sheet 1 of 1

Project Name: Reddish North Primary School and Childrens Centre, Stockport	Project No.: UV0001.34	Co-ords: - Level: -	Date: 14/06/2010
Location: Reddish, Stockport		Dimensions: - Depth 0.15m	Scale: 1:10
Client: BAM Construction			Logged By: J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.15	ES					MADE GROUND: Topsoil comprising firm to stiff brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to coarse, angular to rounded and consists of sandstone, brick, rare ash, ceramics (3), and glass (1). (MG)
			0.15			Trialpit Complete at 0.15 m

Remarks: None

Groundwater: None

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Trialpit No
C06
Sheet 1 of 1

Project Name: Reddish North Primary School and Childrens Centre, Stockport	Project No.: UV000173	Co-ords: - Level: -	Date: 14/06/2010
Location: Reddish, Stockport		Dimensions: - Depth 0.10m	Scale: 1:10
Client: BAM Construction			Logged By: J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.10	ES		0.10			MADE GROUND: Topsoil comprising firm to stiff brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to medium, angular to subrounded and consists of sandstone, brick, occasional quartzite, ash and rare ceramics (2). (MG)
						Trialpit Complete at 0.10 m

Remarks: None

Groundwater: None

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Trialpit No
C07
Sheet 1 of 1

Project Name: Reddish North Primary School and Childrens Centre, Stockport	Project No.: UV0001.34	Co-ords: - Level: -	Date: 14/06/2010
Location: Reddish, Stockport		Dimensions: - Depth 0.20m	Scale: 1:10
Client: BAM Construction			Logged By: J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.20	ES					MADE GROUND: Topsoil comprising stiff to firm brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to coarse, angular to rounded and consists of sandstone, occasional brick quartzite, rare ceramics (2) and glass (2). (MG)
			0.20			Trialpit Complete at 0.20 m

Remarks: None

Groundwater: None

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Trialpit No
C08
Sheet 1 of 1

Project Name: Reddish North Primary School and Childrens Centre, Stockport	Project No.: UV0001.34	Co-ords: - Level: -	Date: 14/06/2010
Location: Reddish, Stockport		Dimensions: - Depth 0.20m	Scale: 1:10
Client: BAM Construction			Logged By: J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.20	ES					MADE GROUND: Topsoil comprising stiff to firm brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to medium, angular to rounded and consists of sandstone, brick and occasional concrete, quartzite and rare ash and glass (3). (MG)
			0.20			Trialpit Complete at 0.20 m

1

Remarks: None

Groundwater: None

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M30 0TE

Trialpit No
C09
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.15m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.15	ES					MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY with frequent rootlets and occasional garvel of fine angular brick, sandstone and rare plastic (1). (MG)
			0.15			Trialpit Complete at 0.15 m

Remarks: None

Groundwater: None

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M30 0TE

Trialpit No
C10
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.15m	Logged By J Evans
Client: BAM Construction			

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.15	ES		0.15			MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY frequent rootlets and rare gravel of fine to medium, angular to rounded brick, sandstone, ash and ceramics (1). (MG) Trialpit Complete at 0.15 m

Remarks: None

Groundwater: None

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Trialpit No
C11
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.15m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.15	ES					MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY frequent rootlets and occasional gravel of fine to medium, angular to rounded brick, sandstone, quartzite, ash, ceramics (2) and glass (1). (MG)
			0.15			Trialpit Complete at 0.15 m

Remarks: None

Groundwater: None

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Trialpit No
C12
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.15m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.15	ES					MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY frequent rootlets and occasional gravel of fine to medium, angular to rounded brick, sandstone, and ash. (MG)
			0.15			Trialpit Complete at 0.15 m

Remarks: None

Groundwater: None

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Trialpit No
C13
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.20m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.20	ES					MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY frequent rootlets and occasional gravel of fine to medium, angular to rounded brick, sandstone, quartzite and ash. (MG)
			0.20			Trialpit Complete at 0.20 m

Remarks: None

Groundwater: None

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Trialpit No
C14
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.20m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.20	ES					MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY frequent rootlets and occasional gravel of fine to medium, angular to rounded brick, sandstone, ash, plastic (1) and ceramics (1). (MG)
			0.20			Trialpit Complete at 0.20 m

Remarks: None

Groundwater: None

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Trialpit No
C15
Sheet 1 of 1

Project Name: Reddish North Primary School and Childrens Centre, Stockport	Project No.: LV0001.34	Co-ords: - Level: -	Date: 14/06/2010
Location: Reddish, Stockport		Dimensions: - Depth 0.20m	Scale: 1:10
Client: BAM Construction			Logged By: J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.20	ES					MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY frequent rootlets and occasional gravel of fine to medium, angular to rounded brick, sandstone, quartzite and ceramics (1). (MG)
			0.20			Trialpit Complete at 0.20 m

Remarks: None

Groundwater: None

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Trialpit No
C16
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.15m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.15	ES					MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY frequent rootlets and occasional gravel of fine to medium, angular to rounded brick, sandstone, ash and quartzite. (MG)
			0.15			Trialpit Complete at 0.15 m

Remarks: None

Groundwater: None

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Trialpit No
C17
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.15m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.15	ES					MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY frequent rootlets and occasional gravel of fine to medium, angular to rounded brick, sandstone, ash and glass (1). (MG)
			0.15			Trialpit Complete at 0.15 m

Remarks: None

Groundwater: None

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Trialpit No
C18
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.20m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.20	ES					MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY frequent rootlets and occasional gravel of fine to medium, angular to rounded brick, sandstone, ash and plastic bottle top (1). (MG)
			0.20			Trialpit Complete at 0.20 m

Remarks: None

Groundwater: None

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HoleBASE 3.1 (Bld 422.00) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
C19
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
Client: BAM Construction		Depth 0.10m	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.10	ES		0.10			MADE GROUND: Topsoil comprising firm to stiff brown sandy CLAY frequent rootlets and rare gravel of fine to medium, angular to rounded brick, sandstone, quartzite and ceramics (1). (MG) Trialpit Complete at 0.10 m

Remarks: None

Groundwater: None

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Trialpit No
C20
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
		Depth 0.15m	
Client: BAM Construction			Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.15	ES					MADE GROUND: Black slightly gravelly medium to coarse SAND predominatly ash and cinders. Gravel is fine to medium, angular and consists of ash and cinders. (MG)
			0.15			Trialpit Complete at 0.15 m

Remarks: None

Groundwater: None

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Trialpit No
C21
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	LV000173	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
Client: BAM Construction		Depth 0.10m	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.10	ES		0.10			MADE GROUND: Black slightly gravelly medium to coarse SAND predominatly ash and cinders. Gravel is fine to medium, angular and consists of ash and cinders. (MG)
						Trialpit Complete at 0.10 m

Remarks: None

Groundwater: None

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Trialpit No
C22
Sheet 1 of 1

Project Name: Reddish North Primary School and Childrens Centre, Stockport	Project No.: UV0001.34	Co-ords: - Level: -	Date: 14/06/2010
Location: Reddish, Stockport		Dimensions: - Depth 0.10m	Scale: 1:10
Client: BAM Construction			Logged By: J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.10	ES		0.10			MADE GROUND: Black slightly gravelly medium to coarse SAND predominatly ash and cinders. Gravel is fine to medium, angular and consists of ash and cinders. (MG)
						Trialpit Complete at 0.10 m

Remarks: None

Groundwater: None

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Trialpit No
C23
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Reddish North Primary School and Childrens Centre, Stockport	UV0001.34	Level: -	14/06/2010
Location: Reddish, Stockport		Dimensions: -	Scale 1:10
Client: BAM Construction		Depth 0.10m	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.00-0.10	ES		0.10			MADE GROUND: Black slightly gravelly medium to coarse SAND predominatly ash and cinders. Gravel is fine to medium, angular and consists of ash and cinders. (MG)
						Trialpit Complete at 0.10 m

Remarks: None

Groundwater: None

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Location No.
SV1
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 04/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.05	ES					MADE GROUND: Red medium SAND with rare fine, rounded gravel of sandstone.			
			0.10			MADE GROUND: Brown grey silty fine to medium SAND with occasional rootlets and rare gravel of sandstone.			
0.20	ES								
			0.25			End of Borehole at 0.25 m	1		
	Type	Results							

Remarks:

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Location No.
SV2
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 04/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.05	ES					MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
			0.10						
						MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and rare gravel of sandstone.			
0.20	ES								
			0.30			End of Borehole at 0.30 m	1		
	Type	Results							

Remarks:

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Location No.
SV3
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 04/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.05	ES					MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
			0.10			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and roots and rare gravel of sandstone.			
0.20	ES		0.20			End of Borehole at 0.30 m	1		
	Type	Results							

Remarks:

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Location No.
SV4
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.05	ES					MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
			0.10						
0.20	ES					MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and roots and rare gravel of sandstone.			
			0.30			End of Borehole at 0.30 m	1		
	Type	Results							

Remarks:

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Location No.
SV5
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
			0.10			MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
0.20	ES		0.25			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and roots and rare gravel of sandstone.	1		
						End of Borehole at 0.25 m			
	Type	Results							

Remarks:

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Location No.
SV6
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.10	ES		0.12			MADE GROUNDMADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
0.20	ES		0.22			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and rare gravel of sandstone.			
						End of Borehole at 0.22 m	1		
	Type	Results							

Remarks:

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Location No.
SV7
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
			0.08			MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
0.20	ES					MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and rare gravel of sandstone.			
			0.28			End of Borehole at 0.28 m	1		
	Type	Results							

Remarks:

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Location No.
SV8
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.10	ES		0.13			MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
			0.31			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and roots and rare gravel of sandstone.			
						End of Borehole at 0.31 m	1		
	Type	Results							

Remarks:

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Location No.
SV9
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
			0.10			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and roots and rare gravel of sandstone.			
0.20	ES								
			0.30			End of Borehole at 0.30 m	1		
	Type	Results							

Remarks:

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Location No.
SV10
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.05	ES					MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
			0.10						
0.20	ES					MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and rare gravel of sandstone.			
			0.30			End of Borehole at 0.30 m	1		
	Type	Results							

Remarks:

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Location No.
SV11
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.05	ES		0.08			MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
0.20	ES		0.28			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and rare gravels of sandstone and tarmac.	1		
						End of Borehole at 0.28 m			
	Type	Results							

Remarks:

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Location No.
SV12
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.05	ES		0.05			MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
0.20	ES					MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and roots and rare gravel of sandstone.			
			0.27			End of Borehole at 0.27 m	1		
	Type	Results							

Remarks:

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Location No.
SV13
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
			0.10			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and rare gravel of sandstone.			
0.20	ES								
			0.28			End of Borehole at 0.28 m	1		
	Type	Results							

Remarks:

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Location No.
SV14
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.05	ES					MADE GROUND: Red fine to medium SAND with rare gravel of sandstone.			
			0.10						
						MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and roots and rare gravel of sandstone.			
0.20	ES								
			0.30			End of Borehole at 0.30 m	1		
	Type	Results							

Remarks:

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Location No.
SV15
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
			0.15			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and roots and rare gravel of sandstone.			
						End of Borehole at 0.15 m	1		
	Type	Results							

Remarks:

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Location No.
SV16
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.10	ES		0.15			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and roots and rare gravel of sandstone.			
						End of Borehole at 0.18 m	1		
	Type	Results							

Remarks:

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Location No.
SV17
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and rare gravel of sandstone.			
			0.28			End of Borehole at 0.28 m	1		
	Type	Results							

Remarks:

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Location No.
SV18
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.40	ES		0.50			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and rare gravel of sandstone.	1		
						End of Borehole at 0.50 m			
	Type	Results							

Remarks: Stockpiled material.

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Location No.
SV19
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 19/07/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
0.40	ES		0.50			MADE GROUND: Brown/grey silty fine to medium SAND with occasional rootlets and roots and rare gravel of sandstone.	1		
						End of Borehole at 0.50 m			
	Type	Results							

Remarks: Stockpiled material

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Location No.
SV20
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Topsoil comprising brown/grey slightly silty fine to medium SAND.			
			0.20			MADE GROUND: Soft brown snady CLAY with occasional gravel of brick and concrete.			
			0.45			End of Borehole at 0.45 m	1		
	Type	Results							

Remarks:

AGS

urbanvision	Urban Vision Environment Team 3rd Floor Emerson House, Albert Street, Eccles M30 0TE	Location No. **SV21** Sheet 1 of 1

Project Name Reddish North Primary School	Project No. UV/000174	Co-ords: -	Hole Type HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Topsoil comprisng firm brown slightly sandy CLAY with frequent rootlets.			
			0.15			MADE GROUND: Firm brown snady CLAY with occasional gravel of sandstone and brick.			
			0.28			End of Borehole at 0.28 m	1		
	Type	Results							

Remarks:

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3rd Floor Emerson House,
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Eccles
M30 0TE

Location No.
SV22
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Soft to firm brown slightly sandy CLAY with frequernt rootlets and occasional gravel of sandstone, brick and wood.			
			0.20			MADE GROUND: Soft brown sandy CLAY with rare cobble of brick and occasional gravel of sandstone concrete and brick.			
			0.49			End of Borehole at 0.49 m	1		
	Type	Results							

Remarks:

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Location No.
SV23
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Topsoil comprsing firm pale brown to brown sandy CLAY with occasional gravel of brick.			
			0.20			MADE GROUND: Soft brown sandy CLAY with occasional gravel of brick, concrete and ceramics.			
			0.50			End of Borehole at 0.50 m	1		
	Type	Results							

Remarks:

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M30 0TE

Location No.
SV24
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Firm pale brown to brown sandy CLAY with frequent rootlets and occasional gravel of sandstone and brick.			
			0.20			MADE GROUND: Soft brown sandy CLAY with rare gravel of brick, sandstone and ceramics.			
			0.40			End of Borehole at 0.40 m	1		
	Type	Results							

Remarks:

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M30 0TE

Location No.
SV25
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Firm pale brown to brown sandy CLAY with frequent rootlets and occasional gravel of sandstone and brick.			
			0.15			MADE GROUND: Soft brown sandy CLAY with occasional gravel of sandstone, brick rare ash and glass.			
			0.30			End of Borehole at 0.30 m	1		
	Type	Results							

Remarks:

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Urban Vision Environment Team
3rd Floor Emerson House,
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M30 0TE

Location No.
SV26
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Topsoil comprising pale brown to brown slightly snady CLAY with frequent rootlets and rare gravel of brick and sandstone.			
			0.18			MADE GROUND: Soft brown sandy CLAY with rare gravel of brick, ceramics and glass.			
			0.42			End of Borehole at 0.42 m	1		
	Type	Results							

Remarks:

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Urban Vision Environment Team
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M30 0TE

Location No.
SV27
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Topsoil comprising firm pale brown to brown slightly sandy CLAY with frequent rootlets and occasional gravel of brick and wood.			
			0.20			MADE GROUND: Soft brown sandy CLAY with rare gravel of brick sandstone and ash.			
			0.40			End of Borehole at 0.40 m	1		
	Type	Results							

Remarks:

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Urban Vision Environment Team
3rd Floor Emerson House,
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M30 0TE

Location No.
SV28
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Topsoil comprising firm pale brown to brown slightly sandy CLAY with frequent rootlets and rare gravel of brick and sandstone.			
			0.25			MADE GROUND: Soft brown sandy CLAY with rare gravel of brick and sandstone.			
			0.78			End of Borehole at 0.78 m	1		
	Type	Results							

Remarks:

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Location No.
SV29
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Topsoil comprising brown/grey silty fine to medium SAND with rare gravel of sandstone.			
			0.30			End of Borehole at 0.30 m	1		
	Type	Results							

Remarks:

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Urban Vision Environment Team
3rd Floor Emerson House,
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Eccles
M30 0TE

Location No.
SV30
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Topsoil comprising brown/grey silty fine to medium SAND with rare gravel of sandstone			
			0.30			End of Borehole at 0.30 m	1		
	Type	Results							

Remarks:

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3rd Floor Emerson House,
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Eccles
M30 0TE

Location No.
SV31
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Topsoil comprising brown/grey silty fine to medium SAND with rare gravel of sandstone.			
			0.25			End of Borehole at 0.25 m	1		
	Type	Results							

Remarks:

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M30 0TE

Location No.
SV32
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 02/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Topsoil comprising brown/grey silty fine to medium SAND with rare gravel of sandstone.			
			0.25			End of Borehole at 0.25 m	1		
	Type	Results							

Remarks:

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Location No.
SV33
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 25/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Brown/grey silty fine to medium SAND with rare gravel of sandstone.			
			0.50			End of Borehole at 0.50 m	1		
	Type	Results							

Remarks:

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Location No.
SV34
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 25/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Brown/grey silty fine to medium SAND with rare gravel of sandstone.			
			0.45			End of Borehole at 0.45 m	1		
	Type	Results							

Remarks:

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Location No.
SV35
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Hole Type
Reddish North Primary School	UV/000174		HA
Location: Reddish, Stockport		Level: -	Scale 1:10
Client: BAM Construction		Dates: 25/08/2011	Logged By J Evans

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		Water Strikes	Well
Depth (m)	Type	Results							
						MADE GROUND: Brown/grey silty fine to medium SAND with rare gravel of sandstone.			
			0.35			End of Borehole at 0.35 m	1		
	Type	Results							

Remarks:

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Appendix E Photos

1. SS03 verification of subsoil depth - 250mm deep

2. SS30 verification of subsoil depth - 150mm deep

3. Import of topsoil and sand for pitch area July 2011

4. SV10 verification of topsoil depth within football pitch – 300mm deep (18/07/11).

5. SV24 verification of topsoil depth within park south of football pitch - 250mm deep.

6. SV30 verification of topsoil depth with school landscaping – 300mm deep.

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Emerson House
Albert Street,
Eccles,
Salford,
M30 0TE

Photographs 1-6

Site: Reddish North Primary School
Address Land East of Harcourt Street
Reddish
Stockport

Date: August 2011 Job No: UV/000174 Client: BAM Construction

7. SV33 taken in the northwest corner of site - 500mm deep.

8. Landscaping within the car park.

9. Landscaping in the west of site, membrane visible

10. Football pitch south of school.

11. Landscaping south of school building.

12. Playground on west side of school.

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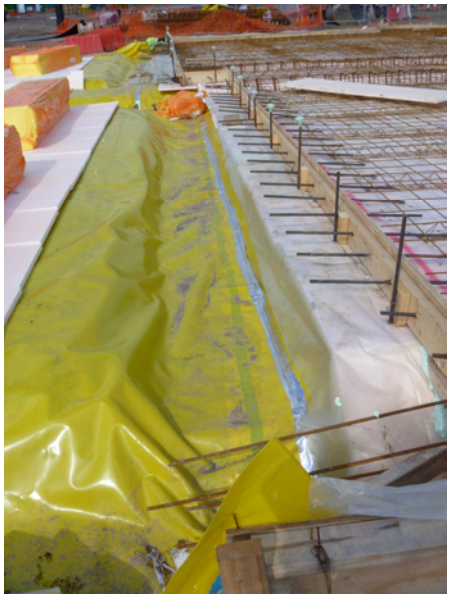
Salford,
M30 0TE

Photographs 7-12

Site: Reddish North Primary School
Address Land East of Harcourt Street
Reddish
Stockport

Date: August 2011 Job No: UV/000174 Client: BAM Construction



Gas Membrane (yellow sheet) with joint sealed Gas Membrane
Insulation above membrane (left of photo)
Slip Sheet above insulation (right of photo)
Preparation for concrete pour showing reinforcement (far right of photo)

Post concrete pour

Service pipe sealed using 'top hat' and tape

Gas Membrane Products: Membrane

Jointing Tape