
VALIDATION OR REMEDIATION SCHEME FOR
PROPOSED REDEVELOPMENT OF
ALTON NURSERIES
LONG BANK
BEWDLEY

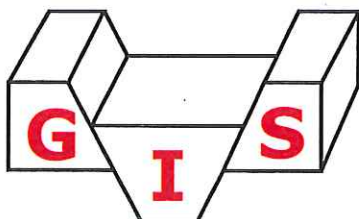
CARRIED OUT FOR:

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DATE: DECEMBER 2020 **REPORT NO:** 1953

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1.0 INTRODUCTION

Ground Investigation Specialists Limited (GIS) have previously submitted an intrusive investigation report (GIS Report No: 1953; dated January 2019) for a proposed residential development at the former Alton Nurseries located at Long Bank, Bewdley and the ensuing Remediation Statement (GIS Report No: 1953; dated September 2020).

The contamination testing carried out as part of the ground investigation established the presence of three elements of concern on the site with potential implications for human health and the pollution of controlled waters. Specifically they were all connected to the area of the former coal store and boiler house, and where there were once two above ground fuel storage tanks (ASTs).

- i) Hydrocarbon contamination (TPH >C₁₂ – C₁₆) of the near surface clays. Visual and olfactory evidence of contamination also noted.

- ii) Significant hydrocarbon contamination of the groundwater in respect of diesel and heating oil (TPH >C₁₀ – C₄₄ Aliphatics). A little PAH (anthracene) contamination was also found due to the presence of coal, ash and clinker at the surface in the made ground.
- iii) Elevated concentrations of carbon dioxide, attaining a maximum of 9.3% v/v during the period of monitoring.

The recommendations made in the intrusive investigation concerning soil, groundwater and gas contamination and an outline remediation strategy for the site were reviewed and agreed in principal by Worcestershire Regulatory Services (WRS). GIS then submitted a detailed remediation statement for approval by WRS. It outlined a comprehensive strategy for the treatment of the contamination sources summarised above, with the aim of significantly reducing the risks posed to human health and the wider environment.

In August and September 2020 the client carried out the validation of the remediation measures undertaken to affect suitable clean up of the site. It should be read in conjunction with the GIS ground investigation report and Remediation Statement.

2.0 SUMMARY OF AGREED REMEDIATION WORKS

The Remediation Statement should be referenced for full details on the agreed programme of works. However in summary, the remedial option considered the most economic and effective involved the excavation and removal from site (for appropriate ex-situ bioremediation treatment by a Licensed Waste Operator) of the worst of the impacted soils in tandem with the removal of the locally contaminated groundwater. Following confirmation that the excavation was 'free' from hydrocarbon contamination, the excavation was to be immediately backfilled with a suitable imported 'clean' low permeability material. The remedial works will require independent validation to ensure the contaminated soil has been removed and to check the suitability of the 'clean' soil.

3.0 VALIDATION OF THE REMEDIATION

Remedial work was carried out between 12th August and 28th September 2020.

Excavation of odorous and visibly stained soil contaminated with hydrocarbons was carried out to a depth of between 0.8 and 2.5 m. The soils were stockpiled temporarily adjacent to the excavation, prior to McAuliffe Civil Engineering Limited removing it from site and transporting it to the Enovert Waste Landfill facility in Oak Lane, Kingswinford for treatment by ex-situ bioremediation methods. Waste transfer tickets are included in section 8.0, confirming approximately 240 tonnes of soil were removed on 9th and 10th September 2020.

The extent of the area requiring excavation is shown in the Remediation Site Plan included in section 6.0. Photographs are reproduced in section 7.0 also displaying the extent of the final excavation and works being carried out.

Following excavation, a Senior Geoenvironmental Engineer attending site to collect eight validation samples from the base and side walls. Samples A – H were delivered to Chemtech Environmental and analysed for Total Petroleum Hydrocarbon Criteria Working Group (TPH CWG).

Table 1 (overleaf) is a summary of the soil TPH analysis data – the full set of results is included in section 5.0. The results confirm the hydrocarbon contaminated soils have been satisfactorily removed, with the soils remaining all having concentrations for the various aromatic and aliphatic bands well below the remedial targets set.

Table 1 : Summary of Petroleum Hydrocarbon Concentrations

| <u>Sample ID</u> | <u>Units</u> | <u>A</u> <u>0.7m</u> | <u>B</u> <u>0.6m</u> | <u>C</u> <u>0.5m</u> | <u>D</u> <u>0.8m</u> | <u>E</u> <u>1.4m</u> | <u>F</u> <u>1.2m</u> | <u>G</u> <u>2.4m</u> | <u>H</u> <u>1.1m</u> | <u>Remedial</u> <u>Target</u> |
|--|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|----------------------------------|
| <u>Depth</u> | | | | | | | | | | |
| Aromatic >C ₅ - C ₇ | mg/kg | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 140 |
| Aromatic >C ₇ - C ₈ | mg/kg | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 290 |
| Aromatic >C ₈ - C ₁₀ | mg/kg | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 83 |
| Aromatic >C ₁₀ - C ₁₂ | mg/kg | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 180 |
| Aromatic >C ₁₂ - C ₁₆ | mg/kg | <1 | <1 | <1 | 2 | <1 | <1 | <1 | <1 | 330 |
| Aromatic >C ₁₆ - C ₂₁ | mg/kg | <1 | <1 | 1 | 22 | 3 | <1 | 2 | 1 | 540 |
| Aromatic >C ₂₁ - C ₃₅ | mg/kg | <1 | <1 | 1 | 32 | 1 | <1 | 2 | 1 | 1500 |
| Aromatic > C ₃₅ - C ₄₄ | mg/kg | <1 | <1 | <1 | 10 | <1 | <1 | <1 | <1 | 1500 |
| Aliphatic >C ₅ - C ₆ | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 78 |
| Aliphatic >C ₆ - C ₈ | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 230 |

| | | | | | | | | | | | | | |
|--|-------|------|------|------|------|------|------|------|------|------|------|------|-------|
| Aliphatic >C ₈ – C ₁₀ | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 65 |
| Aliphatic >C ₁₀ – C ₁₂ | mg/kg | <4 | <4 | <4 | <4 | 5 | <4 | <4 | <4 | 5 | 5 | 5 | 330 |
| Aliphatic >C ₁₂ – C ₁₆ | mg/kg | <4 | 4 | <4 | 22 | 15 | <4 | 6 | 13 | 13 | 13 | 13 | 2400 |
| Aliphatic >C ₁₆ – C ₃₅ | mg/kg | <4 | 9 | 16 | 169 | 48 | 17 | 61 | 32 | 32 | 32 | 32 | 92000 |
| Aliphatic >C ₃₅ – C ₄₄ | mg/kg | <10 | <10 | <10 | 24 | <10 | <10 | 12 | <10 | <10 | <10 | <10 | 92000 |

S4UL = Suitable 4 USL Levels developed by LQM/CIEH for residential with home grown produce land use (2.5% SOM for organic contaminants). Breaches are highlighted in yellow.

As part of the validation works, a sample of groundwater was taken by GIS from the deepest part of the excavation on 24th August 2020. The sample was analysed for speciated Polycyclic Aromatic Hydrocarbons (PAH) and TPH CWG. The results are included in full in section 5.0. They revealed the concentrations for all the PAH contaminants (including Anthracene) were below detection limit. No petroleum hydrocarbons were detected either, with the exception of a low concentration of 25 ug/L in the Aliphatics range >C₁₂ – C₃₅, which was well down on the levels of 886 ug/L and 2313 ug/L previously recorded in the exploratory boreholes sunk as part of the initial ground investigation.

Following removal of the soil and groundwater contamination, the excavation was backfilled with 'clean' clay imported on to the site. GIS visited site on 1st October 2020 in order to carry out a visual inspection of the completed works and take three samples of the imported soil for testing. Photographs in section 7.0 shows the filling works taking place and the ground surface on completion.

Samples 101, 102 and 103 were tested for asbestos and a general range of metals/metalloids, PAHs and TPH. Table 2 (overleaf) provide a summary of the analysis data and comparison with the screening criteria considered to be protective of human health in a residential end use scenario.

Table 2: Summary of Analysis Data for Metals, Metalloids, pH, PAH & TPH

| <u>Determinand</u> | <u>Units</u> | <u>101</u> <u>0.25 m</u> | <u>102</u> <u>0.20 m</u> | <u>103</u> <u>0.25 m</u> | <u>Screen</u> | <u>Source</u> |
|-----------------------------------|--------------|-----------------------------|-----------------------------|-----------------------------|---------------|---------------|
| Arsenic | mg/kg | 18 | 9.7 | 7.8 | 37 | S4UL |
| Cadmium | mg/kg | 3.4 | 0.6 | 0.3 | 11 | S4UL |
| Chromium | mg/kg | 96 | 71 | 59 | 910 | S4UL |
| Copper | mg/kg | 214 | 42 | 27 | 2400 | S4UL |
| Lead | mg/kg | 173 | 33 | 59 | 200 | C4SL |
| Mercury | mg/kg | <0.5 | <0.5 | <0.5 | 40 | S4UL |
| Nickel | mg/kg | 67 | 42 | 37 | 130 | S4UL |
| Selenium | mg/kg | 2.3 | 2.0 | 1.9 | 250 | S4UL |
| Zinc | mg/kg | 940 | 153 | 101 | 3700 | S4UL |
| Naphthalene | mg/kg | <0.02 | <0.02 | <0.02 | 5.6 | S4UL |
| Acenaphthylene | mg/kg | <0.02 | <0.02 | <0.02 | 420 | S4UL |
| Acenaphthene | mg/kg | <0.02 | <0.02 | <0.02 | 510 | S4UL |
| Fluorene | mg/kg | <0.02 | <0.02 | <0.02 | 400 | S4UL |
| Phenanthrene | mg/kg | 0.05 | <0.02 | <0.02 | 220 | S4UL |
| Anthracene | mg/kg | <0.02 | <0.02 | <0.02 | 5400 | S4UL |
| Fluoranthene | mg/kg | 0.19 | <0.02 | <0.02 | 560 | S4UL |
| Pyrene | mg/kg | 0.17 | <0.02 | <0.02 | 1200 | S4UL |
| Benzo[a]anthracene | mg/kg | 0.08 | <0.02 | <0.02 | 11 | S4UL |
| Chrysene | mg/kg | 0.10 | <0.03 | <0.03 | 22 | S4UL |
| Benzo[b]fluoranthene | mg/kg | 0.21 | <0.02 | <0.02 | 3.3 | S4UL |
| Benzo[k]fluoranthene | mg/kg | 0.07 | <0.03 | <0.03 | 93 | S4UL |
| Benzo[a]pyrene | mg/kg | 0.12 | <0.02 | <0.02 | 2.7 | S4UL |
| Indeno[1,2,3-cd]pyrene | mg/kg | 0.16 | <0.02 | <0.02 | 36 | S4UL |
| Dibenzo[a,h]anthracene | mg/kg | 0.03 | <0.02 | <0.02 | 0.28 | S4UL |
| Benzo[g,h,i]perylene | mg/kg | 0.14 | <0.02 | <0.02 | 340 | S4UL |
| >C ₈ -C ₁₀ | mg/kg | <0.1 | <0.1 | <0.1 | 65 | S4UL |
| >C ₁₀ -C ₁₂ | mg/kg | <4 | <4 | <4 | 180 | S4UL |
| >C ₁₂ -C ₁₆ | mg/kg | <4 | <4 | <4 | 330 | S4UL |
| >C ₁₆ -C ₃₅ | mg/kg | 29 | 15 | 14 | 540 | S4UL |
| Asbestos | - | NAD | NAD | NAD | NIL | - |

S4UL = Suitable 4 Use Levels developed by LQM/CIEH for residential with homegrown produce land use (2.5% SOM for organic contaminants). C4SL = DEFRA residential with homegrown produce land use Category 4 screening level for lead. Exceedances are highlighted in yellow.

Reference to Table 2 shows that all determinands in the three samples tested had concentrations well below the appropriate residential screening values, as set out in Table 4 of the remediation statement. No asbestos was detected either. The imported soil is considered fit for purpose.

On completion of the remediation works, two standpipes (referred to as A and B) were installed to a depth of 1 m to confirm the concentrations of carbon dioxide and flammable gases present within the backfill. Monitoring was carried out on 18th and 26th November and 3rd December 2020 and the results are present in full in section 9.0 and summarised in Table 3 (below):-

Table 3: Summary of Gas Monitoring Data

| <u>Borehole</u> | <u>No of monitoring occasions</u> | <u>Methane (%/v/v)</u> | <u>Carbon Dioxide (% v/v)</u> | <u>Oxygen (% v/v)</u> | <u>Carbon Monoxide (ppm)</u> | <u>Hydrogen Sulphide (ppm)</u> | <u>Steady Positive Flow (l/hr)</u> |
|-----------------|-----------------------------------|------------------------|-------------------------------|-----------------------|------------------------------|--------------------------------|------------------------------------|
| A | 3 | <0.1 | 0 – 0.5 | 19.1 – 19.6 | 0 | 0 | 0 |
| B | 3 | <0.1 | 0 – 0.2 | 19.5 – 20.3 | 0 | 0 | 0 |

No methane/flammable gases, carbon monoxide or hydrogen sulphide was detected in either standpipe. Carbon dioxide concentrations were low, ranging from 0 to 0.5 % v/v. Corresponding oxygen concentrations were near normal, ranging from 19.1 to 20.3 % v/v.

Over the three monitoring visits no steady positive flow was detected emanating from the two boreholes.

Referring to the guidance set out in BS 8485:2015 'Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings', a Borehole Hazardous Gas Flow Rate (Q_{hg}) should be derived using the following equation:

$$Q_{hg} = q \left(\frac{C_{hg}}{100} \right) \text{ L/h.}$$

where q is the measured flow rate (in litres per hour);

and C_{hg} is the measured hazardous gas concentration (in percentage volume/volume).

As no positive flow was recorded, the detection limit of the monitor has been used in the calculation. The Q_{hg} for carbon dioxide is calculated below:

$$Q_{hgCO_2} = 0.1 \left(\frac{0.5}{100} \right) = 0.0005 \text{ L/h}$$

According to Table 2 of BS 8485:2015, the levels of carbon dioxide detected and flow rate warrants the site to be classified as Characteristic Situation CS1. In such cases, no specialist ground gas protective measures are considered necessary in new buildings.

4.0 CONCLUSION

The ground investigation works carried out by GIS identified significant hydrocarbon contamination of the near surface soils and shallow groundwater in the area of the former coal store and boiler house, and where there were once two ASTs. Elevated concentrations of carbon dioxide were also present in the ground

Side wall testing has confirmed the removal of the impacted soils, which were taken off site to a remediation centre. Shallow impacted groundwater was encountered which was pumped out to tanker and removed from site.

The excavation was infilled with imported clay soil which laboratory testing confirmed was fit for purpose and passed the import criteria set out in Table 4 of the remediation statement for a residential end use. Subsequent validation testing of the groundwater confirmed it still had a little hydrocarbon contamination in the Aliphatic >C₁₂ – C₃₅ range (25 µg/L) but not at a level likely to give significant cause for concern.

Post remediation monitoring of the two standpipes installed in the backfilled parts of the excavation found no methane/flammable gases to be present in the ground. The carbon dioxide concentrations were low such that the characteristic Gas Situation (CS) for the site was determined as CS1 (very low hazard potential). New buildings constructed on the site would not require any specialist ground gas protection measures.

In summary, it is considered that the contamination identified has been adequately remediated and the site does not pose a significant risk to human health or the wider environment.

H.S. Lister, BSc., C. Geol., C Sci., FGS.
Director
Ground Investigation Specialists Limited

5.0 LABORATORY ANALYSIS RESULTS

ANALYTICAL TEST REPORT

Contract no: 88681
Contract name: Alton Nurseries
Client reference: 1953A
Clients name: Ground Investigation Specialists
Clients address: 43 Bell Place
Dudley Road
Wolverhampton
WV2 4LY
Samples received: 25 August 2020
Analysis started: 25 August 2020
Analysis completed: 02 September 2020
Report issued: 02 September 2020

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing

Approved by:



John Campbell
Director

Chemtech Environmental Limited

SOILS

| Lab number | | | 88681-1 | 88681-2 | 88681-3 | 88681-4 | 88681-5 | 88681-6 |
|---------------------------|--------|-------|------------|------------|------------|------------|------------|------------|
| Sample id | | | A | B | C | D | E | F |
| Depth (m) | | | 0.70 | 0.60 | 0.50 | 0.80 | 1.40 | 1.20 |
| Date sampled | | | 24/08/2020 | 24/08/2020 | 24/08/2020 | 24/08/2020 | 24/08/2020 | 24/08/2020 |
| Test | Method | Units | | | | | | |
| TPH | | | | | | | | |
| VPH Aromatic (>EC5-EC7) | CE067 | mg/kg | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| VPH Aromatic (>EC7-EC8) | CE067 | mg/kg | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| VPH Aromatic (>EC8-EC10) | CE067 | mg/kg | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| EPH Aromatic (>EC10-EC12) | CE068 | mg/kg | <1 | <1 | <1 | <1 | <1 | <1 |
| EPH Aromatic (>EC12-EC16) | CE068 | mg/kg | <1 | <1 | <1 | 2 | <1 | <1 |
| EPH Aromatic (>EC16-EC21) | CE068 | mg/kg | <1 | <1 | 1 | 22 | 3 | <1 |
| EPH Aromatic (>EC21-EC35) | CE068 | mg/kg | <1 | <1 | 1 | 32 | 1 | <1 |
| EPH Aromatic (>EC35-EC44) | CE068 | mg/kg | <1 | <1 | <1 | 10 | <1 | <1 |
| VPH Aliphatic (>C5-C6) | CE067 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| VPH Aliphatic (>C6-C8) | CE067 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| VPH Aliphatic (>C8-C10) | CE067 | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| EPH Aliphatic (>C10-C12) | CE068 | mg/kg | <4 | <4 | <4 | <4 | 5 | <4 |
| EPH Aliphatic (>C12-C16) | CE068 | mg/kg | <4 | 4 | <4 | 22 | 15 | <4 |
| EPH Aliphatic (>C16-C35) | CE068 | mg/kg | <4 | 9 | 16 | 169 | 48 | 17 |
| EPH Aliphatic (>C35-C44) | CE068 | mg/kg | <10 | <10 | <10 | 24 | <10 | <10 |

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SOILS

| Lab number | | | 88681-7 | 88681-8 |
|---------------------------|--------|-------|------------|------------|
| Sample id | | | G | H |
| Depth (m) | | | 2.40 | 1.10 |
| Date sampled | | | 24/08/2020 | 24/08/2020 |
| Test | Method | Units | | |
| TPH | | | | |
| VPH Aromatic (>EC5-EC7) | CE067 | mg/kg | <0.01 | <0.01 |
| VPH Aromatic (>EC7-EC8) | CE067 | mg/kg | <0.01 | <0.01 |
| VPH Aromatic (>EC8-EC10) | CE067 | mg/kg | <0.01 | <0.01 |
| EPH Aromatic (>EC10-EC12) | CE068 | mg/kg | <1 | <1 |
| EPH Aromatic (>EC12-EC16) | CE068 | mg/kg | <1 | <1 |
| EPH Aromatic (>EC16-EC21) | CE068 | mg/kg | 2 | 1 |
| EPH Aromatic (>EC21-EC35) | CE068 | mg/kg | 2 | 1 |
| EPH Aromatic (>EC35-EC44) | CE068 | mg/kg | <1 | <1 |
| VPH Aliphatic (>C5-C6) | CE067 | mg/kg | <0.1 | <0.1 |
| VPH Aliphatic (>C6-C8) | CE067 | mg/kg | <0.1 | <0.1 |
| VPH Aliphatic (>C8-C10) | CE067 | mg/kg | <0.1 | <0.1 |
| EPH Aliphatic (>C10-C12) | CE068 | mg/kg | <4 | 5 |
| EPH Aliphatic (>C12-C16) | CE068 | mg/kg | 6 | 13 |
| EPH Aliphatic (>C16-C35) | CE068 | mg/kg | 61 | 32 |
| EPH Aliphatic (>C35-C44) | CE068 | mg/kg | 12 | <10 |

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WATERS

| | | | |
|---------------------------|---------------|--------------|------------|
| Lab number | | | 88681-9 |
| Sample id | | | Water |
| Depth (m) | | | 2.40 |
| Date sampled | | | 24/08/2020 |
| Time sampled | | | - |
| Test | Method | Units | |
| PAH | | | |
| Naphthalene | CE051 | µg/l | <0.1 |
| Acenaphthylene | CE051 | µg/l | <0.1 |
| Acenaphthene | CE051 | µg/l | <0.1 |
| Fluorene | CE051 | µg/l | <0.1 |
| Phenanthrene | CE051 | µg/l | <0.1 |
| Anthracene | CE051 | µg/l | <0.1 |
| Fluoranthene | CE051 | µg/l | <0.1 |
| Pyrene | CE051 | µg/l | <0.1 |
| Benzo(a)anthracene | CE051 | µg/l | <0.1 |
| Chrysene | CE051 | µg/l | <0.1 |
| Benzo(b)fluoranthene | CE051 | µg/l | <0.1 |
| Benzo(k)fluoranthene | CE051 | µg/l | <0.1 |
| Benzo(a)pyrene | CE051 | µg/l | <0.1 |
| Indeno(123cd)pyrene | CE051 | µg/l | <0.1 |
| Dibenz(ah)anthracene | CE051 | µg/l | <0.1 |
| Benzo(ghi)perylene | CE051 | µg/l | <0.1 |
| PAH (total of USEPA 16) | CE051 | µg/l | <1.6 |
| TPH | | | |
| VPH Aromatic (>EC5-EC7) | CE175 | µg/l | <1 |
| VPH Aromatic (>EC7-EC8) | CE175 | µg/l | <1 |
| VPH Aromatic (>EC8-EC10) | CE175 | µg/l | <1 |
| EPH Aromatic (>EC10-EC12) | CE161 | µg/l | <1 |
| EPH Aromatic (>EC12-EC16) | CE161 | µg/l | <1 |
| EPH Aromatic (>EC16-EC21) | CE161 | µg/l | <1 |
| EPH Aromatic (>EC21-EC35) | CE161 | µg/l | <1 |
| EPH Aromatic (>EC35-EC44) | CE161 | µg/l | <1 |
| VPH Aliphatic (>C5-C6) | CE175 | µg/l | <1 |
| VPH Aliphatic (>C6-C8) | CE175 | µg/l | <1 |
| VPH Aliphatic (>C8-C10) | CE175 | µg/l | <1 |
| EPH Aliphatic (>C10-C12) | CE161 | µg/l | <1 |
| EPH Aliphatic (>C12-C16) | CE161 | µg/l | 4 |
| EPH Aliphatic (>C16-C35) | CE161 | µg/l | 21 |
| EPH Aliphatic (>C35-C44) | CE161 | µg/l | <1 |

Chemtech Environmental Limited

METHOD DETAILS

| METHOD | SOILS | METHOD SUMMARY | SAMPLE | STATUS | LOD | UNITS |
|--------|---------------------------|----------------------------|-------------|--------|------|-------|
| CE067 | VPH Aromatic (>EC5-EC7) | Headspace GC-FID | As received | | 0.01 | mg/kg |
| CE067 | VPH Aromatic (>EC7-EC8) | Headspace GC-FID | As received | | 0.01 | mg/kg |
| CE067 | VPH Aromatic (>EC8-EC10) | Headspace GC-FID | As received | | 0.01 | mg/kg |
| CE068 | EPH Aromatic (>EC10-EC12) | Solvent extraction, GC-FID | As received | | 1 | mg/kg |
| CE068 | EPH Aromatic (>EC12-EC16) | Solvent extraction, GC-FID | As received | | 1 | mg/kg |
| CE068 | EPH Aromatic (>EC16-EC21) | Solvent extraction, GC-FID | As received | | 1 | mg/kg |
| CE068 | EPH Aromatic (>EC21-EC35) | Solvent extraction, GC-FID | As received | | 1 | mg/kg |
| CE068 | EPH Aromatic (>EC35-EC44) | Solvent extraction, GC-FID | As received | | 1 | mg/kg |
| CE067 | VPH Aliphatic (>C5-C6) | Headspace GC-FID | As received | | 0.1 | mg/kg |
| CE067 | VPH Aliphatic (>C6-C8) | Headspace GC-FID | As received | | 0.1 | mg/kg |
| CE067 | VPH Aliphatic (>C8-C10) | Headspace GC-FID | As received | | 0.1 | mg/kg |
| CE068 | EPH Aliphatic (>C10-C12) | Solvent extraction, GC-FID | As received | | 4 | mg/kg |
| CE068 | EPH Aliphatic (>C12-C16) | Solvent extraction, GC-FID | As received | | 4 | mg/kg |
| CE068 | EPH Aliphatic (>C16-C35) | Solvent extraction, GC-FID | As received | | 4 | mg/kg |
| CE068 | EPH Aliphatic (>C35-C44) | Solvent extraction, GC-FID | As received | | 10 | mg/kg |

Chemtech Environmental Limited

METHOD DETAILS

| METHOD | WATERS | METHOD SUMMARY | STATUS | LOD | UNITS |
|--------|---------------------------|----------------------------|--------|-----|-------|
| CE051 | Naphthalene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Acenaphthylene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Acenaphthene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Fluorene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Phenanthrene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Anthracene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Fluoranthene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Pyrene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Benzo(a)anthracene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Chrysene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Benzo(b)fluoranthene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Benzo(k)fluoranthene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Benzo(a)pyrene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Indeno(123cd)pyrene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Dibenz(ah)anthracene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | Benzo(ghi)perylene | Solvent extraction, GC-MS | | 0.1 | µg/l |
| CE051 | PAH (total of USEPA 16) | Solvent extraction, GC-MS | | 1.6 | µg/l |
| CE175 | VPH Aromatic (>EC5-EC7) | Headspace GC-FID | | 1 | µg/l |
| CE175 | VPH Aromatic (>EC7-EC8) | Headspace GC-FID | | 1 | µg/l |
| CE175 | VPH Aromatic (>EC8-EC10) | Headspace GC-FID | | 1 | µg/l |
| CE161 | EPH Aromatic (>EC10-EC12) | Solvent extraction, GC-FID | | 1 | µg/l |
| CE161 | EPH Aromatic (>EC12-EC16) | Solvent extraction, GC-FID | | 1 | µg/l |
| CE161 | EPH Aromatic (>EC16-EC21) | Solvent extraction, GC-FID | | 1 | µg/l |
| CE161 | EPH Aromatic (>EC21-EC35) | Solvent extraction, GC-FID | | 1 | µg/l |
| CE161 | EPH Aromatic (>EC35-EC44) | Solvent extraction, GC-FID | | 1 | µg/l |
| CE175 | VPH Aliphatic (>C5-C6) | Headspace GC-FID | | 1 | µg/l |
| CE175 | VPH Aliphatic (>C6-C8) | Headspace GC-FID | | 1 | µg/l |
| CE175 | VPH Aliphatic (>C8-C10) | Headspace GC-FID | | 1 | µg/l |
| CE161 | EPH Aliphatic (>C10-C12) | Solvent extraction, GC-FID | | 1 | µg/l |
| CE161 | EPH Aliphatic (>C12-C16) | Solvent extraction, GC-FID | | 1 | µg/l |
| CE161 | EPH Aliphatic (>C16-C35) | Solvent extraction, GC-FID | | 1 | µg/l |
| CE161 | EPH Aliphatic (>C35-C44) | Solvent extraction, GC-FID | | 1 | µg/l |



ANALYTICAL TEST REPORT

Contract no: 89890
Contract name: Alton Nurseries
Client reference: 88681
Clients name: Ground Investigation Specialists
Clients address: 43 Bell Place
Dudley Road
Wolverhampton
WV2 4LY

Samples received: 06 October 2020
Analysis started: 06 October 2020
Analysis completed: 13 October 2020
Report issued: 13 October 2020

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing
NAD No Asbestos Detected

Approved by: K Campbell
Karan Campbell
Director

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.
Analytical results are inclusive of stones.

| Lab ref | Sample id | Depth (m) | Sample description | Material removed | % Removed | % Moisture |
|---------|-----------|-----------|--------------------|------------------|-----------|------------|
| 89890-1 | 101 | 0.25 | Clay with Gravel | - | - | 22.1 |
| 89890-2 | 102 | 0.20 | Clay with Gravel | - | - | 18.8 |
| 89890-3 | 103 | 0.25 | Clay with Gravel | - | - | 19.1 |

Chemtech Environmental Limited

SOILS

| Lab number | | | 89890-1 | 89890-2 | 89890-3 |
|-------------------------------|--------------------|----------|------------|------------|------------|
| Sample id | | | 101 | 102 | 103 |
| Depth (m) | | | 0.25 | 0.20 | 0.25 |
| Date sampled | | | 01/10/2020 | 01/10/2020 | 01/10/2020 |
| Test | Method | Units | | | |
| Arsenic (total) | CE127 ^M | mg/kg As | 18 | 9.7 | 7.8 |
| Cadmium (total) | CE127 ^M | mg/kg Cd | 3.4 | 0.6 | 0.3 |
| Chromium (total) | CE127 ^M | mg/kg Cr | 96 | 71 | 59 |
| Copper (total) | CE127 ^M | mg/kg Cu | 214 | 42 | 27 |
| Lead (total) | CE127 ^M | mg/kg Pb | 173 | 33 | 59 |
| Mercury (total) | CE127 ^M | mg/kg Hg | <0.5 | <0.5 | <0.5 |
| Nickel (total) | CE127 ^M | mg/kg Ni | 67 | 42 | 37 |
| Selenium (total) | CE127 ^M | mg/kg Se | 2.3 | 2.0 | 1.9 |
| Zinc (total) | CE127 ^M | mg/kg Zn | 940 | 153 | 101 |
| PAH | | | | | |
| Naphthalene | CE087 ^M | mg/kg | <0.02 | <0.02 | <0.02 |
| Acenaphthylene | CE087 ^M | mg/kg | <0.02 | <0.02 | <0.02 |
| Acenaphthene | CE087 ^M | mg/kg | <0.02 | <0.02 | <0.02 |
| Fluorene | CE087 ^U | mg/kg | <0.02 | <0.02 | <0.02 |
| Phenanthrene | CE087 ^M | mg/kg | 0.05 | <0.02 | <0.02 |
| Anthracene | CE087 ^U | mg/kg | <0.02 | <0.02 | <0.02 |
| Fluoranthene | CE087 ^M | mg/kg | 0.19 | <0.02 | <0.02 |
| Pyrene | CE087 ^M | mg/kg | 0.17 | <0.02 | <0.02 |
| Benzo(a)anthracene | CE087 ^U | mg/kg | 0.08 | <0.02 | <0.02 |
| Chrysene | CE087 ^M | mg/kg | 0.10 | <0.03 | <0.03 |
| Benzo(b)fluoranthene | CE087 ^M | mg/kg | 0.21 | <0.02 | <0.02 |
| Benzo(k)fluoranthene | CE087 ^M | mg/kg | 0.07 | <0.03 | <0.03 |
| Benzo(a)pyrene | CE087 ^U | mg/kg | 0.12 | <0.02 | <0.02 |
| Indeno(123cd)pyrene | CE087 ^M | mg/kg | 0.16 | <0.02 | <0.02 |
| Dibenz(ah)anthracene | CE087 ^M | mg/kg | 0.03 | <0.02 | <0.02 |
| Benzo(ghi)perylene | CE087 ^M | mg/kg | 0.14 | <0.02 | <0.02 |
| PAH (total of USEPA 16) | CE087 | mg/kg | 1.32 | <0.34 | <0.34 |
| TPH | | | | | |
| VPH (>C8-C10) | CE067 | mg/kg | <0.1 | <0.1 | <0.1 |
| EPH (>C10-C12) | CE033 ^U | mg/kg | <4 | <4 | <4 |
| EPH (>C12-C16) | CE033 ^M | mg/kg | <4 | <4 | <4 |
| EPH (>C16-C35) | CE033 ^M | mg/kg | 29 | 15 | 14 |
| Subcontracted analysis | | | | | |
| Asbestos (qualitative) | \$ | - | NAD | NAD | NAD |

Chemtech Environmental Limited

METHOD DETAILS

| METHOD | SOILS | METHOD SUMMARY | SAMPLE | STATUS | LOD | UNITS |
|--------|-------------------------|----------------------------|-------------|--------|------|----------|
| CE127 | Arsenic (total) | Aqua regia digest, ICP-MS | Dry | M | 1 | mg/kg As |
| CE127 | Cadmium (total) | Aqua regia digest, ICP-MS | Dry | M | 0.2 | mg/kg Cd |
| CE127 | Chromium (total) | Aqua regia digest, ICP-MS | Dry | M | 1 | mg/kg Cr |
| CE127 | Copper (total) | Aqua regia digest, ICP-MS | Dry | M | 1 | mg/kg Cu |
| CE127 | Lead (total) | Aqua regia digest, ICP-MS | Dry | M | 1 | mg/kg Pb |
| CE127 | Mercury (total) | Aqua regia digest, ICP-MS | Dry | M | 0.5 | mg/kg Hg |
| CE127 | Nickel (total) | Aqua regia digest, ICP-MS | Dry | M | 1 | mg/kg Ni |
| CE127 | Selenium (total) | Aqua regia digest, ICP-MS | Dry | M | 0.3 | mg/kg Se |
| CE127 | Zinc (total) | Aqua regia digest, ICP-MS | Dry | M | 5 | mg/kg Zn |
| CE087 | Naphthalene | Solvent extraction, GC-MS | As received | M | 0.02 | mg/kg |
| CE087 | Acenaphthylene | Solvent extraction, GC-MS | As received | M | 0.02 | mg/kg |
| CE087 | Acenaphthene | Solvent extraction, GC-MS | As received | M | 0.02 | mg/kg |
| CE087 | Fluorene | Solvent extraction, GC-MS | As received | U | 0.02 | mg/kg |
| CE087 | Phenanthrene | Solvent extraction, GC-MS | As received | M | 0.02 | mg/kg |
| CE087 | Anthracene | Solvent extraction, GC-MS | As received | U | 0.02 | mg/kg |
| CE087 | Fluoranthene | Solvent extraction, GC-MS | As received | M | 0.02 | mg/kg |
| CE087 | Pyrene | Solvent extraction, GC-MS | As received | M | 0.02 | mg/kg |
| CE087 | Benzo(a)anthracene | Solvent extraction, GC-MS | As received | U | 0.02 | mg/kg |
| CE087 | Chrysene | Solvent extraction, GC-MS | As received | M | 0.03 | mg/kg |
| CE087 | Benzo(b)fluoranthene | Solvent extraction, GC-MS | As received | M | 0.02 | mg/kg |
| CE087 | Benzo(k)fluoranthene | Solvent extraction, GC-MS | As received | M | 0.03 | mg/kg |
| CE087 | Benzo(a)pyrene | Solvent extraction, GC-MS | As received | U | 0.02 | mg/kg |
| CE087 | Indeno(123cd)pyrene | Solvent extraction, GC-MS | As received | M | 0.02 | mg/kg |
| CE087 | Dibenz(ah)anthracene | Solvent extraction, GC-MS | As received | M | 0.02 | mg/kg |
| CE087 | Benzo(ghi)perylene | Solvent extraction, GC-MS | As received | M | 0.02 | mg/kg |
| CE087 | PAH (total of USEPA 16) | Solvent extraction, GC-MS | As received | | 0.34 | mg/kg |
| CE067 | VPH (>C8-C10) | Headspace GC-FID | As received | | 0.1 | mg/kg |
| CE033 | EPH (>C10-C12) | Solvent extraction, GC-FID | As received | U | 4 | mg/kg |
| CE033 | EPH (>C12-C16) | Solvent extraction, GC-FID | As received | M | 4 | mg/kg |
| CE033 | EPH (>C16-C35) | Solvent extraction, GC-FID | As received | M | 4 | mg/kg |
| \$ | Asbestos (qualitative) | HSG 248, Microscopy | Dry | U | - | - |

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

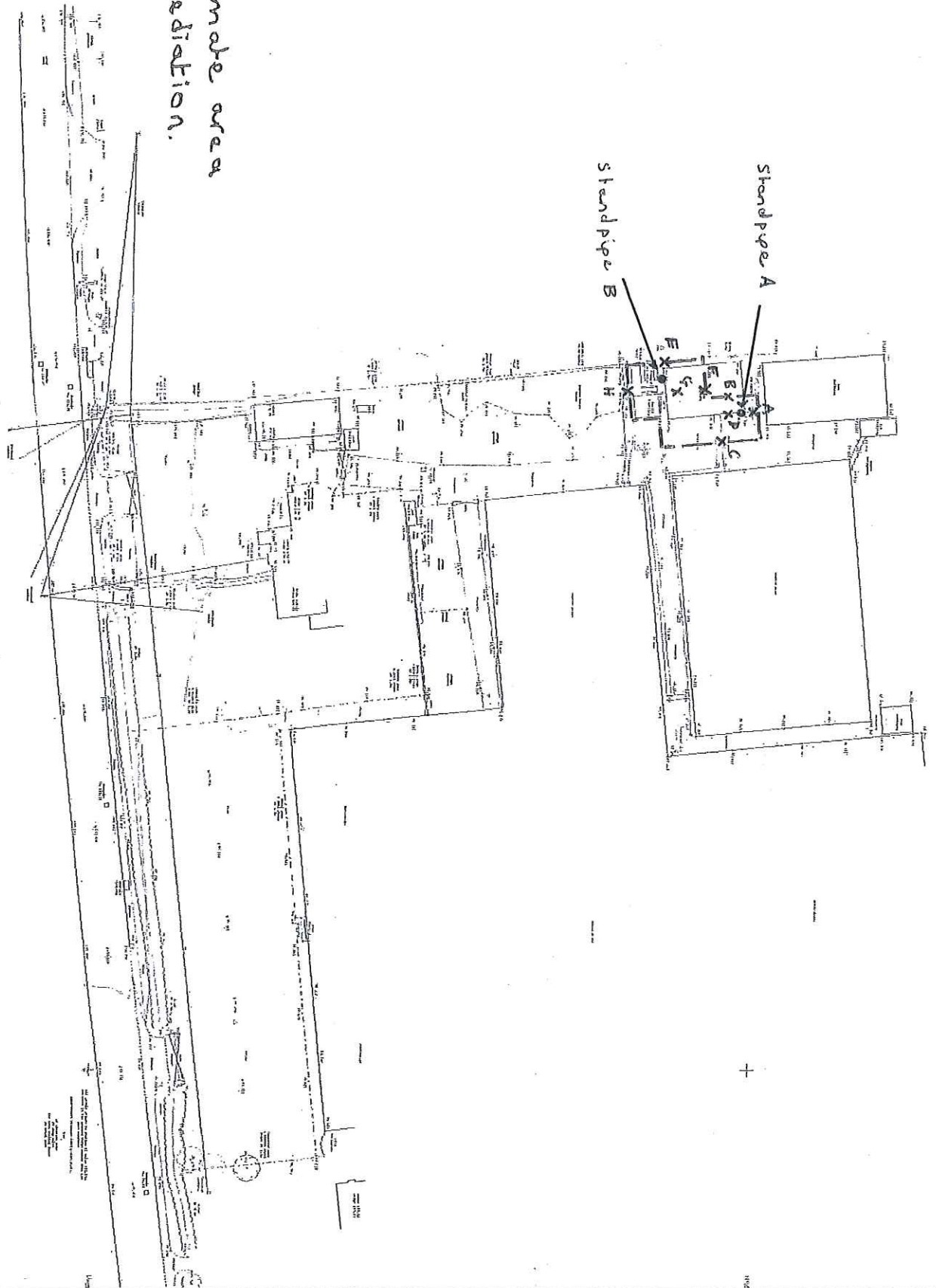
Key

| | |
|-----|---|
| N | No (not deviating sample) |
| Y | Yes (deviating sample) |
| NSD | Sampling date not provided |
| NST | Sampling time not provided (waters only) |
| EHT | Sample exceeded holding time(s) |
| IC | Sample not received in appropriate containers |
| HP | Headspace present in sample container |
| NCF | Sample not chemically fixed (where appropriate) |
| OR | Other (specify) |

| Lab ref | Sample id | Depth (m) | Deviating | Tests (Reason for deviation) |
|---------|-----------|-----------|-----------|------------------------------|
| 89890-1 | 101 | 0.25 | N | |
| 89890-2 | 102 | 0.20 | N | |
| 89890-3 | 103 | 0.25 | N | |

6.0 REMEDIATION SITE PLAN

□ Approximate area
of remediation.



Roger Gee Land Surveys
17 Cambridge Close
Newhaven
Tel: 0713 81052

MR C FISCHER
ALTON WRENSHIPS LANG BANK BOUNDARY
LAND SURVEY
Scale 1:200
Sheet 1 of 2

7.0 VALIDATION PHOTOGRAPHS



Extent of Excavation Looking South



Excavation Being Backfilled with Clean Clay



View of backfilled Excavation Looking South



View of Backfilled Excavation Looking North

8.0 WASTE TRANSFER TICKETS

O/No. TR REF 20088 Coll/Disp No. _____

MCAULIFFE
 CIVIL ENGINEERING LIMITED
 No. 376360

McAuliffe House, Northcott Road, Bilston, WV14 0TP
 Telephone: 01902 354400 www.mcauliffeigroup.co.uk

CUSTOMER DUNTON Date 9.9.20 Time 8.45
 (Waste Producer)
 Veh. Reg.: BUBB ZPP Driver MITCH
 (BLOCK CAPITALS)

| 8W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading ALTON NURSERIES BEWDLEY

| | | | | |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| Other Soils & Stones 170504 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
|-----------------------------|---|----------------------------------|-----------------|------------------------|

Other Materials SUBSOIL

Delivery Address ORK LANE, KINGSWINFORD
 DISPOSAL/DELIVERY SITE: _____ DISPOSAL SITE LICENCE No.: _____

Address: _____
 Received _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.
 I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: Chris Fletcher Authorised Signature: [Signature]
 Working for: _____ SIC Code: _____

REMEDICATION • HAULAGE • RECLAMATION • DEMOLITION

Recycled aggregates are produced in compliance with the requirements of the WRAP aggregates Quality Protocol.

O/No. _____ Coll/Disp No. _____

MCAULIFFE
 CIVIL ENGINEERING LIMITED
 No. 376869

McAuliffe House, Northcott Road, Bilston, WV14 0TP
 Telephone: 01902 354400 www.mcauliffeigroup.co.uk

CUSTOMER Dunton Date 9/9/20 Time 8.15
 (Waste Producer)
 Veh. Reg.: DX20 UWA Driver DAVEY
 (BLOCK CAPITALS)

| 8W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading ALTON NURSERIES long bank BEWDLEY

| | | | | |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| Other Soils & Stones 170504 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
|-----------------------------|---|----------------------------------|-----------------|------------------------|

Other Materials Sub soil for Restoration Dunton Acc 20088

Delivery Address Enquet Oak Lane Kingswinford.
 DISPOSAL/DELIVERY SITE: _____ DISPOSAL SITE LICENCE No.: _____

Address: _____
 Received _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.
 I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: Chris Fletcher Authorised Signature: [Signature]
 Working for: _____ SIC Code: _____

REMEDICATION • HAULAGE • RECLAMATION • DEMOLITION

Recycled aggregates are produced in compliance with the requirements of the WRAP aggregates Quality Protocol.



No. 376872

Mcauliffe House, Northcott Road, Bilston, WV14 0TP
Telephone: 01902 354400 www.mcauliffegroup.co.uk

O/No. _____ Coll/Disp No. _____

CUSTOMER Denton Date 9/9/20 Time 14:00
(Waste Producer)
Veh. Reg.: DX20 UVA Driver HEVER,

(BLOCK CAPITALS)

| 8W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading Alton Nurseries longbank Bewdley

| | | | | |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| Other Soils & Stones 170504 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
|-----------------------------|---|----------------------------------|-----------------|------------------------|

Other Materials Sub Soil For Restoration Denton Acc 200083

Delivery Address Enoverd oak lane Kingswinford

DISPOSAL/DELIVERY SITE: DISPOSAL SITE LICENCE No.:

Address: _____

Received By: _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.

I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: Chris Belliker Authorised Signature: X

Working for: Alton Nurseries SIC Code: _____

REMEDICATION • HAULAGE • RECLAMATION • DEMOLITION

Recycled aggregates are produced in compliance with the requirements of the WRAP aggregates Quality Protocol.



No. 376870

Mcauliffe House, Northcott Road, Bilston, WV14 0TP
Telephone: 01902 354400 www.mcauliffegroup.co.uk

O/No. _____ Coll/Disp No. _____

CUSTOMER Denton Date 9/9/20 Time 10:10
(Waste Producer)
Veh. Reg.: DX20 UVA Driver HEVER,

(BLOCK CAPITALS)

| 8W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading Alton Nurseries longbank Bewdley

| | | | | |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| Other Soils & Stones 170504 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
|-----------------------------|---|----------------------------------|-----------------|------------------------|

Other Materials Sub Soil For Restoration Denton Acc 200083

Delivery Address Enoverd oak lane Kingswinford

DISPOSAL/DELIVERY SITE: DISPOSAL SITE LICENCE No.:

Address: _____

Received By: _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.

I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: Chris Fletcher Authorised Signature: X

Working for: Alton Nurseries SIC Code: 17 05 04

REMEDICATION • HAULAGE • RECLAMATION • DEMOLITION

Recycled aggregates are produced in compliance with the requirements of the WRAP aggregates Quality Protocol.

Document required by the Environmental Protection Act 1990 and Environmental Protection (Duty of Care) Regulations. Carrier and Broker Certificate: CB DU 65559. SIC Code: 38.11

No. _____ Coll/Disp No. _____

AULIFFE
 CIVIL ENGINEERING LIMITED
 No. 376871

Mcauliffe House, Northcott Road, Bilston, WV14 0TP
 Telephone: 01902 354400 www.mcauliffeigroup.co.uk

CUSTOMER Dunton Date 9/9/20 Time 11.50
 (Waste Producer)
 Reg.: DX20 UWA Driver DEVER
 (BLOCK CAPITALS)

| W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading Alton Nurseries, Long Bank Bewdley

| Other Soils & Stones 170304 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| | | | | |

Other Materials Sub soil For Restoration Dunton Acc 200088
 Delivery Address Enover Oak Lane Kingswinstford
 DISPOSAL/DELIVERY SITE: _____ DISPOSAL SITE LICENCE No.: _____

Address: _____
 Received By: _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.
 I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: Chris Fletcher Authorised Signature: X
 Working for: Alton Nurseries SIC Code: _____

REMEDIATION • HAULAGE • RECLAMATION • DEMOLITION

Document required by the Environmental Protection Act 1990 and Environmental Protection (Duty of Care) Regulations. Carrier and Broker Certificate: CB DU 65559. SIC Code: 38.11

No. _____ Coll/Disp No. _____

AULIFFE
 CIVIL ENGINEERING LIMITED
 No. 376362

Mcauliffe House, Northcott Road, Bilston, WV14 0TP
 Telephone: 01902 354400 www.mcauliffeigroup.co.uk

CUSTOMER DUNTON Date 9.9.20 Time 12.30
 (Waste Producer)
 Ven. Reg.: BUB64 ZPP Driver MITCH
 (BLOCK CAPITALS)

| W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading ALTON NURSERIES, BEWDLEY

| Other Soils & Stones 170304 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| | | | | |

Other Materials SUBSOIL
 Delivery Address ENOVER OAK LANE KINGSWIND
 DISPOSAL/DELIVERY SITE: _____ DISPOSAL SITE LICENCE No.: _____

Address: _____
 Received By: _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.
 I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: X Authorised Signature: X
 Working for: _____ SIC Code: _____

REMEDIATION • HAULAGE • RECLAMATION • DEMOLITION

O/No. TRP No. 200088 Coll/Disp No. _____

W AULLIFFE
 CIVIL ENGINEERING LIMITED
 McAuliffe House, Northcott Road, Bilston, WV14 0TP
 Telephone: 01902 354400 www.mcauliffegroup.co.uk
 No. 376363

CUSTOMER DUNTON Date 9.9.20 Time 15.10
 (Waste Producer)
 Vch. Reg.: BUB4 ZPP Driver MITCH
 (BLOCK CAPITALS)

| 8W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading ALTON NURSERY BENDLEY

| | | | | |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| Other Soils & Stones 170504 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
| Other Materials | <u>SUBSOIL</u> | | | |

Delivery Address ENOVERT OAK LANE, K FORD
 DISPOSAL/DELIVERY SITE: _____ DISPOSAL SITE LICENCE No.: _____
 Address: _____
 received _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE
 I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.
 I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: X Authorised Signature: [Signature]
 Working for: _____ SIC Code: _____

REMEDIATION • HAULAGE • RECLAMATION • DEMOLITION

O/No. TRP No. 200088 Coll/Disp No. _____

W AULLIFFE
 CIVIL ENGINEERING LIMITED
 McAuliffe House, Northcott Road, Bilston, WV14 0TP
 Telephone: 01902 354400 www.mcauliffegroup.co.uk
 No. 376366

CUSTOMER DUNTON Date 10.9.20 Time 12.00
 (Waste Producer)
 Vch. Reg.: BUB4 ZPP Driver MITCH
 (BLOCK CAPITALS)

| 8W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading ALTON NURSERY BENDLEY

| | | | | |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| Other Soils & Stones 170504 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
| Other Materials | <u>SUBSOIL</u> | | | |

Delivery Address ENOVERT OAK LANE, K FORD
 DISPOSAL/DELIVERY SITE: _____ DISPOSAL SITE LICENCE No.: _____
 Address: _____
 Received _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE
 I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.
 I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: X Authorised Signature: [Signature]
 Working for: _____ SIC Code: _____

REMEDIATION • HAULAGE • RECLAMATION • DEMOLITION

Document required by the Environmental Protection Act 1990 and Environmental Protection (Duty of Care) Regulations. Carrier and Broker Certificate: CB DU 65559. SIC Code: 38.11

J/No. TP No. 200088 Coll/Disp No. _____

W^U AULIFFE
 CIVIL ENGINEERING LIMITED
 No. 376367

McAuliffe House, Northcott Road, Bliston, WV14 0TP
 Telephone: 01902 354400 www.mcauliffegroup.co.uk

CUSTOMER DUNTON Date 10.9.20 Time 14.20
 (Waste Producer)
 Vn. Reg.: BUBH ZPP Driver MITCH
 (BLOCK CAPITALS)

| 8W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading ALTON NURSERY BEWDLEY

| | | | | |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| Other Soils & Stones 170504 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
|-----------------------------|---|----------------------------------|-----------------|------------------------|

Other Materials SUBSOIL

Delivery Address ENOVERT OAK LANE K.FORD

DISPOSAL/DELIVERY SITE: _____ DISPOSAL SITE LICENCE No.: _____


Address: _____

Received By: _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.

I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: X Authorised Signature: X 

Working for: _____ SIC Code: _____

REMEDIATION • HAULAGE • RECLAMATION • DEMOLITION

Document required by the Environmental Protection Act 1990 and Environmental Protection (Duty of Care) Regulations. Carrier and Broker Certificate: CB DU 65559. SIC Code: 38.11

O/No. TP No. 200088 Coll/Disp No. _____

W^U AULIFFE
 CIVIL ENGINEERING LIMITED
 No. 376361

McAuliffe House, Northcott Road, Bliston, WV14 0TP
 Telephone: 01902 354400 www.mcauliffegroup.co.uk

CUSTOMER DUNTON Date 9.9.20 Time 10.45
 (Waste Producer)
 Vn. Reg.: BUBH ZPP Driver MITCH
 (BLOCK CAPITALS)

| 8W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading ALTON NURSERY BEWDLEY

| | | | | |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| Other Soils & Stones 170504 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
|-----------------------------|---|----------------------------------|-----------------|------------------------|

Other Materials SUBSOIL

Delivery Address ENOVERT OAK LANE K.FORD

DISPOSAL/DELIVERY SITE: _____ DISPOSAL SITE LICENCE No.: _____


Address: _____

Received By: _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.

I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: X Authorised Signature: X 

Working for: _____ SIC Code: _____

REMEDIATION • HAULAGE • RECLAMATION • DEMOLITION

Document required by the Environmental Protection Act 1990 and Environmental Protection (Duty of Care) Regulations. Carrier and Broker Certificate: CB DU 65559. SIC Code: 38.11

O/No. TRP NO 200083 Coll/Disp No. _____

WCA
ULIFFE
CIVIL ENGINEERING LIMITED
No. 376364

McAuliffe House, Northcott Road, Bilston, WV14 0TP
Telephone: 01902 354400 www.mcauliffegroup.co.uk

CUSTOMER DUNTON Date 10.9.20 Time 8.00
(Waste Producer)

Veh. Reg.: BUB4 ZPP Driver MITCH
(BLOCK CAPITALS)

| 8W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading ALTON NURSERY. BEWDLEY

| | | | | |
|----------------------------|---|----------------------------------|-----------------|------------------------|
| Other Soils & Stones 70504 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
|----------------------------|---|----------------------------------|-----------------|------------------------|

Other Materials SUBSOIL

Delivery Address ENOVERT OAK LANE K.FORD

DISPOSAL/DELIVERY SITE: _____ DISPOSAL SITE LICENCE No.: _____

Address: _____

Received By: _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.
I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: X Authorised Signature: 

Working for: _____ SIC Code: _____

REMEDIATION • HAULAGE • RECLAMATION • DEMOLITION

Worked aggregates are produced in compliance with the requirements of the WRAP aggregates Quality Protocol.

Document required by the Environmental Protection Act 1990 and Environmental Protection (Duty of Care) Regulations. Carrier and Broker Certificate: CB DU 65559. SIC Code: 38.11

O/No. TRP NO 200083 Coll/Disp No. _____

WCA
ULIFFE
CIVIL ENGINEERING LIMITED
No. 376365

McAuliffe House, Northcott Road, Bilston, WV14 0TP
Telephone: 01902 354400 www.mcauliffegroup.co.uk

CUSTOMER DUNTON Date 10.9.20 Time 10.05
(Waste Producer)

Veh. Reg.: BUB4 ZPP Driver MITCH
(BLOCK CAPITALS)

| 8W | Weight | Day Work | Waiting Time | Reason for W/Time |
|-------------------------------------|--------|----------|--------------|-------------------|
| <input checked="" type="checkbox"/> | | | | |

Place of Loading ALTON NURSERY. BEWDLEY

| | | | | |
|-----------------------------|---|----------------------------------|-----------------|------------------------|
| Other Soils & Stones 170504 | Concrete, Bricks, Tiles & Mixtures 170107 | Other Bituminous Mixtures 170302 | Concrete 170101 | Mixed C&D Waste 170904 |
|-----------------------------|---|----------------------------------|-----------------|------------------------|

Other Materials SUBSOIL

Delivery Address ENOVERT OAK LANE K.FORD

DISPOSAL/DELIVERY SITE: _____ DISPOSAL SITE LICENCE No.: _____

Address: _____

Received By: _____ Printed Name: _____ Date: _____ Time: _____

PRODUCER'S CERTIFICATE

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England & Wales) Regulations 2011.
I certify that the information given above is correct and that the carrier was advised of appropriate safety measures.

PRINT NAME: X Authorised Signature: 

Working for: _____ SIC Code: _____

REMEDIATION • HAULAGE • RECLAMATION • DEMOLITION

Worked aggregates are produced in compliance with the requirements of the WRAP aggregates Quality Protocol.

9.0 GROUND GAS MONITORING TEST RESULTS

GROUND INVESTIGATION SPECIALISTS LIMITED

| | |
|--|---------------------|
| CONTRACT: Alton Nurseries Longbank, Bewdley | BOREHOLE: A |
| CLIENT: Chris Fletcher | SHEET 1 OF 1 |
| ENGINEER: | JOB No. 1953 |

| | | | | |
|----------------|-------------|----------------|-------------------------------|-----------------|
| DATE: 18.11.20 | TIME: 09:15 | AIR TEMP: 6 °C | BAROMETRIC PRESSURE: 993 mbar | TECHNICIAN: HSL |
|----------------|-------------|----------------|-------------------------------|-----------------|

METEOROLOGICAL AND OUTSIDE SITE CONDITIONS

| | | | | |
|-----------------|------|-----------|----------|-----------|
| STATE OF GROUND | Dry | Moist | Wet | Saturated |
| WIND | Calm | Light | Moderate | Strong |
| CLOUD COVER | None | Scattered | Broken | Overcast |
| PRECIPITATION | None | Slight | Moderate | Heavy |

| TIME (Mins) | METHANE (% v/v) | CARBON DIOXIDE (% V/V) | OXYGEN (% v/v) | CARBON MONOXIDE (PPM) | HYDROGEN SULPHIDE (PPM) | FLOW (l/hr) |
|------------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------------|---------------------------------|
| 1 | <0.1 | 0 | 20.2 | 0 | 0 | -0.5 rose to 0 after 10 secs |
| 2 | <0.1 | 0.5 | 19.5 | 0 | 0 | |
| 3 | <0.1 | 0.2 | 19.1 | 0 | 0 | |
| 4 | <0.1 | 0 | 20.3 | 0 | 0 | |
| 5 | <0.1 | 0 | 20.4 | 0 | 0 | |

| | |
|-----------------|----------------|
| REMARKS: | FIG No. |
|-----------------|----------------|

GROUND INVESTIGATION SPECIALISTS LIMITED

| | |
|--|---------------------|
| CONTRACT: Alton Nurseries Longbank, Bewdley | BOREHOLE: B |
| CLIENT: Chris Fletcher | SHEET 1 OF 1 |
| ENGINEER: | JOB No. 1953 |

| | | | | |
|----------------|-------------|----------------|-------------------------------|-----------------|
| DATE: 18.11.20 | TIME: 09:45 | AIR TEMP: 6 °C | BAROMETRIC PRESSURE: 992 mbar | TECHNICIAN: HSL |
|----------------|-------------|----------------|-------------------------------|-----------------|

METEOROLOGICAL AND OUTSIDE SITE CONDITIONS

| | | | | |
|------------------------|------|-----------|----------|-----------|
| STATE OF GROUND | Dry | Moist | Wet | Saturated |
| WIND | Calm | Light | Moderate | Strong |
| CLOUD COVER | None | Scattered | Broken | Overcast |
| PRECIPITATION | None | Slight | Moderate | Heavy |

| TIME (Mins) | METHANE (% v/v) | CARBON DIOXIDE (% V/V) | OXYGEN (% v/v) | CARBON MONOXIDE (PPM) | HYDROGEN SULPHIDE (PPM) | FLOW (l/hr) |
|------------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------------|----------------|
| 1 | <0.1 | 0 | 20.4 | 0 | 0 | 0 |
| 2 | <0.1 | 0 | 20.3 | 0 | 0 | |
| 3 | <0.1 | 0 | 20.4 | 0 | 0 | |
| 4 | <0.1 | 0 | 20.4 | 0 | 0 | |
| 5 | <0.1 | 0 | 20.3 | 0 | 0 | |

| | |
|-----------------|----------------|
| REMARKS: | FIG No. |
|-----------------|----------------|

GROUND INVESTIGATION SPECIALISTS LIMITED

| | |
|--|---------------------|
| CONTRACT: Alton Nurseries Longbank, Bewdley | BOREHOLE: A |
| CLIENT: Chris Fletcher | SHEET 1 OF 1 |
| ENGINEER: | JOB No. 1953 |

| | | | | |
|----------------|-------------|----------------|--------------------------------|-----------------|
| DATE: 26.11.45 | TIME: 09:50 | AIR TEMP: 1 °C | BAROMETRIC PRESSURE: 1004 mbar | TECHNICIAN: HSL |
|----------------|-------------|----------------|--------------------------------|-----------------|

METEOROLOGICAL AND OUTSIDE SITE CONDITIONS

| | | | | |
|-----------------|------|-----------|----------|-----------|
| STATE OF GROUND | Dry | Moist | Wet | Saturated |
| WIND | Calm | Light | Moderate | Strong |
| CLOUD COVER | None | Scattered | Broken | Overcast |
| PRECIPITATION | None | Slight | Moderate | Heavy |

| TIME (Mins) | METHANE (% v/v) | CARBON DIOXIDE (% V/V) | OXYGEN (% v/v) | CARBON MONOXIDE (PPM) | HYDROGEN SULPHIDE (PPM) | FLOW (l/hr) |
|-----------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------------|----------------|
| | | | | | | 0 |
| 1 | <0.1 | 0 | 19.4 | 0 | 0 | |
| 2 | <0.1 | 0 | 19.5 | 0 | 0 | |
| 3 | <0.1 | 0 | 19.7 | 0 | 0 | |
| 4 | <0.1 | 0 | 19.6 | 0 | 0 | |
| 5 | <0.1 | 0 | 19.7 | 0 | 0 | |

| | |
|-----------------|----------------|
| REMARKS: | FIG No. |
|-----------------|----------------|

GROUND INVESTIGATION SPECIALISTS LIMITED

| | |
|--|---------------------|
| CONTRACT: Alton Nurseries Longbank, Bewdley | BOREHOLE: B |
| CLIENT: Chris Fletcher | SHEET 1 OF 1 |
| ENGINEER: | JOB No. 1953 |

| | | | | |
|----------------|-------------|----------------|--------------------------------|-----------------|
| DATE: 26.11.20 | TIME: 10:05 | AIR TEMP: 1 °C | BAROMETRIC PRESSURE: 1004 mbar | TECHNICIAN: HSL |
|----------------|-------------|----------------|--------------------------------|-----------------|

METEOROLOGICAL AND OUTSIDE SITE CONDITIONS

| | | | | |
|-----------------|------|-----------|----------|-----------|
| STATE OF GROUND | Dry | Moist | Wet | Saturated |
| WIND | Calm | Light | Moderate | Strong |
| CLOUD COVER | None | Scattered | Broken | Overcast |
| PRECIPITATION | None | Slight | Moderate | Heavy |

| TIME (Mins) | METHANE (% v/v) | CARBON DIOXIDE (% V/V) | OXYGEN (% v/v) | CARBON MONOXIDE (PPM) | HYDROGEN SULPHIDE (PPM) | FLOW (l/hr) |
|-----------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------------|---------------------------------|
| 1 | <0.1 | 0.2 | 19.5 | 0 | 0 | -0.2 rose to 0 after 30 secs |
| 2 | <0.1 | 0 | 20.0 | 0 | 0 | |
| 3 | <0.1 | 0 | 20.0 | 0 | 0 | |
| 4 | <0.1 | 0 | 20.0 | 0 | 0 | |
| 5 | <0.1 | 0 | 20.0 | 0 | 0 | |

| | |
|-----------------|----------------|
| REMARKS: | FIG No. |
|-----------------|----------------|

GROUND INVESTIGATION SPECIALISTS LIMITED

| | |
|--|---------------------|
| CONTRACT: Alton Nurseries Longbank, Bewdley | BOREHOLE: A |
| CLIENT: Chris Fletcher | SHEET 1 OF 1 |
| ENGINEER: | JOB No. 1953 |

| | | | | |
|----------------|-------------|----------------|-------------------------------|-----------------|
| DATE: 03.12.20 | TIME: 10:00 | AIR TEMP: 4 °C | BAROMETRIC PRESSURE: 971 mbar | TECHNICIAN: HSL |
|----------------|-------------|----------------|-------------------------------|-----------------|

METEOROLOGICAL AND OUTSIDE SITE CONDITIONS

| | | | | |
|-----------------|------|-----------|----------|-----------|
| STATE OF GROUND | Dry | Moist | Wet | Saturated |
| WIND | Calm | Light | Moderate | Strong |
| CLOUD COVER | None | Scattered | Broken | Overcast |
| PRECIPITATION | None | Slight | Moderate | Heavy |

| TIME (Mins) | METHANE (% v/v) | CARBON DIOXIDE (% V/V) | OXYGEN (% v/v) | CARBON MONOXIDE (PPM) | HYDROGEN SULPHIDE (PPM) | FLOW (l/hr) |
|------------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------------|--------------------------------|
| 1 | <0.1 | 0 | 19.8 | 0 | 0 | 1.6 fell to 0 after 30 secs |
| 2 | <0.1 | 0 | 19.7 | 0 | 0 | |
| 3 | <0.1 | 0 | 19.6 | 0 | 0 | |
| 4 | <0.1 | 0 | 19.7 | 0 | 0 | |
| 5 | <0.1 | 0 | 19.6 | 0 | 0 | |

| | |
|-----------------|----------------|
| REMARKS: | FIG No. |
|-----------------|----------------|

GROUND INVESTIGATION SPECIALISTS LIMITED

| | |
|--|---------------------|
| CONTRACT: Alton Nurseries Longbank, Bewdley | BOREHOLE: B |
| CLIENT: Chris Fletcher | SHEET 1 OF 1 |
| ENGINEER: | JOB No. 1953 |

| | | | | |
|----------------|-------------|----------------|-------------------------------|-----------------|
| DATE: 03.12.20 | TIME: 10:15 | AIR TEMP: 4 °C | BAROMETRIC PRESSURE: 971 mbar | TECHNICIAN: HSL |
|----------------|-------------|----------------|-------------------------------|-----------------|

METEOROLOGICAL AND OUTSIDE SITE CONDITIONS

| | | | | |
|-----------------|------|-----------|----------|-----------|
| STATE OF GROUND | Dry | Moist | Wet | Saturated |
| WIND | Calm | Light | Moderate | Strong |
| CLOUD COVER | None | Scattered | Broken | Overcast |
| PRECIPITATION | None | Slight | Moderate | Heavy |

| TIME (Mins) | METHANE (% v/v) | CARBON DIOXIDE (% V/V) | OXYGEN (% v/v) | CARBON MONOXIDE (PPM) | HYDROGEN SULPHIDE (PPM) | FLOW (l/hr) |
|------------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------------|------------------------------------|
| 1 | <0.1 | 0.1 | 19.6 | 0 | 0 | -0.3 then rose to 0 after 1 min |
| 2 | <0.1 | 0 | 19.7 | 0 | 0 | |

| | |
|---|----------------|
| REMARKS: Monitoring ceased after 2 mins, because water being sucked up inlet tube of gas monitor. | FIG No. |
|---|----------------|