

Date: 11th October 2024  
Reference: 12-123-V57

## COVER SYSTEM VALIDATION – BELLE VUE

|                         |                                     |
|-------------------------|-------------------------------------|
| <b>Project Name:</b>    | Belle Vue                           |
| <b>Project Number:</b>  | 12-123                              |
| <b>Client:</b>          | Countryside (Vistry)                |
| <b>Date:</b>            | 10-10-2024                          |
| <b>Project Manager:</b> | N. Sellars                          |
| <b>E3P Engineer:</b>    | S. Juhasz                           |
| <b>Plots:</b>           | Apartment Block 2 (POS 101-POS 106) |

### OVERVIEW

An E3P engineer attended the above site to validate the thickness of the cover system placed within the apartment landscaping at Belle Vue.

Six hand-excavated trial pits were advanced, with the resulting strata detailed at the rear of this letter.

The trial pits were completed to highlight the required cover system of 300 mm (300 mm topsoil).

E3P can confirm that our independent validation demonstrates that the landscaped areas have been installed with 300 mm of certified topsoil under the NHBC requirements for a site of this nature.

A list of plots requiring validation and their associated validation letters is presented in Table 1 for reference.





## TOPSOIL

Topsoil has been imported from the Redrow site located off Lomas Way, Congleton, CW12 2GH. Five samples have been tested which confirm that the topsoil is chemically suitable for use within the proposed landscaped areas. Chemical analysis results are included within lab reports 24-10965 and 24-30860 (attached to this letter). The topsoil has been imported from a greenfield source, therefore a sample frequency of 1 sample per 200 m<sup>3</sup> is being undertaken.

Topsoil has also been imported from Haslingden Road, Blackburn, BB1, 2ND. Three samples have been tested which confirm that the topsoil is chemically suitable for use within the proposed landscaped areas. Chemical analysis results are included within lab report 24-30860 (attached to this letter). The topsoil has been imported from a greenfield source, therefore a sample frequency of 1 sample per 200 m<sup>3</sup> is being undertaken.

## CHEMICAL ANALYSIS

| TOPSOIL/SUBSOIL | SOURCE                     | LAB REFERENCE | SAMPLE REFERENCE | PASS/FAIL |
|-----------------|----------------------------|---------------|------------------|-----------|
| Topsoil         | Lomas Way, Congleton       | 24-10965      | TS101-TS103      | PASS      |
| Topsoil         | Lomas Way, Congleton       | 24-30860      | TS101-TS102      | PASS      |
| Topsoil         | Haslingden Road, Blackburn | 24-30860      | TS201-TS203      | PASS      |

The cover system validation photographs are enclosed within this letter. For information, Table 1 includes references and validation dates of previously validated plots.

**Table 1 – Validation Letter Reference**

| PLOT NUMBER                    | REPORT NUMBER | DATE               |
|--------------------------------|---------------|--------------------|
| <b>1</b>                       | V4            | 23rd June 2022     |
| <b>2</b>                       | V4            | 23rd June 2022     |
| <b>3</b>                       | V4            | 23rd June 2022     |
| <b>4</b>                       | V3            | 23rd June 2022     |
| <b>5</b>                       | V6            | 4th July 2022      |
| <b>Block 1 (Plots 6 – 61)</b>  |               |                    |
| <b>Block 2 (Plots 62 – 85)</b> | V57           | 10th October 2024  |
| <b>86</b>                      | V17           | 15th December 2022 |
| <b>87</b>                      | V17           | 15th December 2022 |





| PLOT NUMBER | REPORT NUMBER | DATE                |
|-------------|---------------|---------------------|
| 88          | V17           | 15th December 2022  |
| 89          | V30           | 18th April 2023     |
| 90          | V30           | 18th April 2023     |
| 91          | V30           | 18th April 2023     |
| 92          | V30           | 18th April 2023     |
| 93          | V30           | 18th April 2023     |
| 94          | V30           | 18th April 2023     |
| 95          | V30           | 18th April 2023     |
| 96          | V56           | 8th April 2024      |
| 97          | V56           | 8th April 2024      |
| 98          | V56           | 8th April 2024      |
| 99          | V9            | 22nd September 2022 |
| 100         | V9            | 22nd September 2022 |
| 101         | V9            | 22nd September 2022 |
| 102         | V9            | 22nd September 2022 |
| 103         | V9            | 22nd September 2022 |
| 104         | V10           | 23rd September 2022 |
| 105         | V10           | 23rd September 2022 |
| 106         | V11           | 27th September 2022 |
| 107         | V11           | 27th September 2022 |
| 108         | V11           | 27th September 2022 |
| 109         | V11           | 27th September 2022 |





| PLOT NUMBER | REPORT NUMBER | DATE                                    |
|-------------|---------------|-----------------------------------------|
| 110         | V13           | 24th October 2022                       |
| 111         | V15           | 14th November 2022                      |
| 112         | V15           | 14th November 2022                      |
| 113         | V18           | 16th December 2022                      |
| 114         | V18           | 16th December 2022                      |
| 115         | V18           | 16th December 2022                      |
| 116         | V18           | 16th December 2022                      |
| 117         | V18           | 16th December 2022                      |
| 118         | V18           | 16th December 2022                      |
| 119         | V18           | 16th December 2022                      |
| 120         | V18           | 16th December 2022                      |
| 121         | V18           | 16th December 2022                      |
| 122         | V18           | 16th December 2022                      |
| 123         | V18           | 16th December 2022                      |
| 124         | V18           | 16th December 2022                      |
| 125         | V20           | 30th January 2023                       |
| 126         | V20           | 30th January 2023                       |
| 127         | V20           | 30th January 2023                       |
| 128         | V20<br>V22    | 30th January 2023<br>14th February 2023 |
| 129         | V22           | 14th February 2023                      |
| 130         | V25           | 1st March 2023                          |
| 131         | V25           | 1st March 2023                          |





| PLOT NUMBER | REPORT NUMBER | DATE                |
|-------------|---------------|---------------------|
| 132         | V25           | 1st March 2023      |
| 133         | V25           | 1st March 2023      |
| 134         | V25           | 1st March 2023      |
| 135         | V25           | 1st March 2023      |
| 136         | V16           | 5th December 2022   |
| 137         | V16           | 5th December 2022   |
| 138         | V16           | 5th December 2022   |
| 139         | V16           | 5th December 2022   |
| 140         | V14           | 14th November 2022  |
| 141         | V14           | 14th November 2022  |
| 142         | V14           | 14th November 2022  |
| 143         | V12           | 28th September 2022 |
| 144         | V12           | 28th September 2022 |
| 145         | V12           | 28th September 2022 |
| 146         | V9            | 22nd September 2022 |
| 147         | V9            | 22nd September 2022 |
| 148         | V8            | 25th August 2022    |
| 149         | V8            | 25th August 2022    |
| 150         | V7            | 23rd August 2022    |
| 151         | V40           | 15th September 2023 |
| 152         | V40           | 15th September 2023 |
| 153         | V40           | 15th September 2023 |





| PLOT NUMBER | REPORT NUMBER | DATE                        |
|-------------|---------------|-----------------------------|
| 154         | V40           | 15th September 2023         |
| 155         | V41           | 3rd October 2023            |
| 156         | V45           | 20th October 2023           |
| 157         | V46           | 15th November 2023          |
| 158         | V46           | 15th November 2023          |
| 159         | V47           | 16th November 2023          |
| 160         | V47           | 16th November 2023          |
| 161         | V53           | 11th December 2023          |
| 162         | V53           | 11th December 2023          |
| 163         | V35           | 29th June 2023              |
| 164         | V35           | 29th June 2023              |
| 165         | V33           | 6th June 2023               |
| 166         | V33           | 6th June 2023               |
| 167         | V23           | 16th February 2023          |
| 168         | V19           | 24th January 2023           |
| 169         | V19           | 24th January 2023           |
| 170         | V23           | 16th February 2023          |
| 171         | V29           | 17th April 2023             |
| 172         | V29 & V32     | 7th April 2023 – 5th May 23 |
| 173         | V32           | 5th May 2023                |
| 174         | V32           | 5th May 2023                |
| 175         | V32           | 5th May 2023                |





| PLOT NUMBER | REPORT NUMBER | DATE               |
|-------------|---------------|--------------------|
| 176         | V32           | 5th May 2023       |
| 177         | V32           | 5th May 2023       |
| 178         | V28           | 17th March 2023    |
| 179         | V28           | 17th March 2023    |
| 180         | V28           | 17th March 2023    |
| 181         | V27           | 10th March 2023    |
| 182         | V27           | 10th March 2023    |
| 183         | V28           | 17th March 2023    |
| 184         | V24           | 21st February 2023 |
| 185         | V24           | 21st February 2023 |
| 186         | V26           | 3rd March 2023     |
| 187         | V26           | 3rd March 2023     |
| 188         | V31           | 20th April 2023    |
| 189         | V29           | 17th April 2023    |
| 190         | V29           | 17th April 2023    |
| 191         | V21           | February 2023      |
| 192         | V21           | February 2023      |
| 193         | V19           | 24th January 2023  |
| 194         | V22           | 14th February 2023 |
| 195         | V22           | 14th February 2023 |
| 196         | V22           | 14th February 2023 |
| 197         | V22           | 14th February 2023 |





| PLOT NUMBER | REPORT NUMBER | DATE               |
|-------------|---------------|--------------------|
| 198         | V22           | 14th February 2023 |
| 199         | V22           | 14th February 2023 |
| 200         | V22           | 14th February 2023 |
| 201         | V22           | 14th February 2023 |
| 202         | V22           | 14th February 2023 |
| 203         | V22           | 14th February 2023 |
| 204         | V33           | 6th June 2023      |
| 205         | V33           | 6th June 2023      |
| 206         | V33           | 6th June 2023      |
| 207         | V33           | 6th June 2023      |
| 208         | V34           | 19th June 2023     |
| 209         | V34           | 19th June 2023     |
| 210         | V35           | 29th June 2023     |
| 211         | V35           | 29th June 2023     |
| 212         | V36           | 27th July 2023     |
| 213         | V36           | 27th July 2023     |
| 214         | V55           | 13th February 2024 |
| 215         | V54           | 8th February 2024  |
| 216         | V54           | 8th February 2024  |
| 217         | V52           | 8th December 2023  |
| 218         | V52           | 8th December 2023  |
| 219         | V52           | 8th December 2023  |





| PLOT NUMBER | REPORT NUMBER | DATE               |
|-------------|---------------|--------------------|
| 220         | V37           | 9th August 2023    |
| 221         | V39           | 18th August 2023   |
| 222         | V39           | 18th August 2023   |
| 223         | V51           | 7th December 2023  |
| 224         | V51           | 7th December 2023  |
| 225         | V50           | 1st December 2023  |
| 226         | V48           | 22nd November 2023 |
| 227         | V49           | 23rd November 2023 |
| 228         | V47           | 16th November 2023 |
| 229         | V48           | 22nd November 2023 |
| 230         | V43           | 11th October 2023  |
| 231         | V43           | 11th October 2023  |
| 232         | V42           | 6th October 2023   |
| 233         | V42           | 6th October 2023   |
| 234         | V44           | 18th October 2023  |
| 235         | V44           | 18th October 2023  |
| 236         | V1            | 31st May 2022      |
| 237         | V1            | 31st May 2022      |
| 238         | V1            | 31st May 2022      |
| 239         | V1            | 31st May 2022      |
| 240         | V38           | 15th August 2023   |
| 241         | V38           | 15th August 2023   |





| PLOT NUMBER | REPORT NUMBER | DATE           |
|-------------|---------------|----------------|
| 242         | V2            | 15th June 2022 |
| 243         | V2            | 15th June 2022 |
| 244         | V5            | 29th June 2022 |
| 245         | V5            | 29th June 2022 |
| 246         | V5            | 29th June 2022 |
| 247         | V5            | 29th June 2022 |





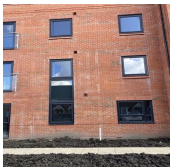
## POS (public open space) Cover System Validation

Complete

| Score                                                                                                                                               | 36 / 36 (100%)                                                                                                         | Flagged items | 0 | Actions | 0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------|---|---------|---|
| Site Name                                                                                                                                           | Belle Vue Greyhounds                                                                                                   |               |   |         |   |
| Location                                                                                                                                            | 5 Greyhound Ave<br>Manchester<br>England<br>M18 7DN<br>United Kingdom<br>(53.461601833122366, -<br>2.1826583590022994) |               |   |         |   |
| Project Number                                                                                                                                      | 12123                                                                                                                  |               |   |         |   |
| Developer                                                                                                                                           | Countryside Properties (UK) Ltd                                                                                        |               |   |         |   |
| Project Manager                                                                                                                                     | Nicola Sellers                                                                                                         |               |   |         |   |
| Conducted By                                                                                                                                        | Sam Juhasz                                                                                                             |               |   |         |   |
| Date of visit                                                                                                                                       | 10 Oct 2024 1:22 PM BST                                                                                                |               |   |         |   |
| Subsoil/Topsoil Material Source (If the site manager can't supply you with detail of where the soil is sourced STOP THE INSPECTION and call the PM) |                                                                                                                        |               |   |         |   |
| Where has the Subsoil been sourced                                                                                                                  | N/A                                                                                                                    |               |   |         |   |
| Where has the Topsoil been sourced                                                                                                                  | Haslingden Rd                                                                                                          |               |   |         |   |





|                                                                                                                                                     |                 |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------|
| Plot Validation 1                                                                                                                                   |                 | 6 / 6 (100%)                        |
| What Three Words location                                                                                                                           |                 | POS103 - ///roses.action.vote       |
| Is Location Ready                                                                                                                                   | <div>Yes</div>  |                                     |
| Installation Standard                                                                                                                               | <div>Pass</div> |                                     |
| Depth of Cover System Materials (record the depth and support with Photo down the hole)                                                             |                 | 300                                 |
|  <p>Photo 1</p>                                                    |                 |                                     |
| Depth of Topsoil (mm)                                                                                                                               |                 | 300                                 |
| Depth of Subsoil (mm)                                                                                                                               |                 | 0                                   |
| Depth of Cover System at Ground Level (Photo)                                                                                                       |                 | <input checked="" type="checkbox"/> |
|  <p>Photo 2</p>                                                  |                 |                                     |
| Depth of Cover System in Relation to Plot (Ensure the whole plot can be seen in the photo)                                                          |                 | <input checked="" type="checkbox"/> |
|  <p>Photo 3</p>                                                  |                 |                                     |
| Soil suitable (Must be free from Brick, concrete, wood, plastics, glass, metal and anything none natural) if identified contact PM and take photos. |                 | <div>Yes</div>                      |
| Geotextile membrane present                                                                                                                         |                 | N/A                                 |





|                                                                                                                                                     |      |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------|
| Plot Validation 2                                                                                                                                   |      | 6 / 6 (100%)                        |
| What Three Words location                                                                                                                           |      | POS 102 - ///probe.plays.visa       |
| Is Location Ready                                                                                                                                   | Yes  |                                     |
| Installation Standard                                                                                                                               | Pass |                                     |
| Depth of Cover System Materials (record the depth and support with Photo down the hole)                                                             |      | 300                                 |
|  <p>Photo 4</p>                                                    |      |                                     |
| Depth of Topsoil (mm)                                                                                                                               |      | 300                                 |
| Depth of Subsoil (mm)                                                                                                                               |      | 0                                   |
| Depth of Cover System at Ground Level (Photo)                                                                                                       |      | <input checked="" type="checkbox"/> |
|  <p>Photo 5</p>                                                  |      |                                     |
| Depth of Cover System in Relation to Plot (Ensure the whole plot can be seen in the photo)                                                          |      | <input checked="" type="checkbox"/> |
|  <p>Photo 6</p>                                                  |      |                                     |
| Soil suitable (Must be free from Brick, concrete, wood, plastics, glass, metal and anything none natural) if identified contact PM and take photos. |      | Yes                                 |
| Geotextile membrane present                                                                                                                         |      | N/A                                 |





|                                                                                                                                                     |      |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------|
| Plot Validation 3                                                                                                                                   |      | 6 / 6 (100%)                        |
| What Three Words location                                                                                                                           |      | POS 106 - ///couple.fire.start      |
| Is Location Ready                                                                                                                                   | Yes  |                                     |
| Installation Standard                                                                                                                               | Pass |                                     |
| Depth of Cover System Materials (record the depth and support with Photo down the hole)                                                             |      | 300                                 |
|  <p>Photo 7</p>                                                    |      |                                     |
| Depth of Topsoil (mm)                                                                                                                               |      | 300                                 |
| Depth of Subsoil (mm)                                                                                                                               |      | 0                                   |
| Depth of Cover System at Ground Level (Photo)                                                                                                       |      | <input checked="" type="checkbox"/> |
|  <p>Photo 8</p>                                                  |      |                                     |
| Depth of Cover System in Relation to Plot (Ensure the whole plot can be seen in the photo)                                                          |      | <input checked="" type="checkbox"/> |
|  <p>Photo 9</p>                                                  |      |                                     |
| Soil suitable (Must be free from Brick, concrete, wood, plastics, glass, metal and anything none natural) if identified contact PM and take photos. |      | Yes                                 |
| Geotextile membrane present                                                                                                                         |      | N/A                                 |





|                                                                                                                                                     |                 |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------|
| Plot Validation 4                                                                                                                                   |                 | 6 / 6 (100%)                        |
| What Three Words location                                                                                                                           |                 | POS 105 - ///gladiators.rent.nerve  |
| Is Location Ready                                                                                                                                   | <div>Yes</div>  |                                     |
| Installation Standard                                                                                                                               | <div>Pass</div> |                                     |
| Depth of Cover System Materials (record the depth and support with Photo down the hole)                                                             |                 | 300                                 |
|  <p>Photo 10</p>                                                   |                 |                                     |
| Depth of Topsoil (mm)                                                                                                                               |                 | 300                                 |
| Depth of Subsoil (mm)                                                                                                                               |                 | 0                                   |
| Depth of Cover System at Ground Level (Photo)                                                                                                       |                 | <input checked="" type="checkbox"/> |
|  <p>Photo 11</p>                                                 |                 |                                     |
| Depth of Cover System in Relation to Plot (Ensure the whole plot can be seen in the photo)                                                          |                 | <input checked="" type="checkbox"/> |
|  <p>Photo 12</p>                                                 |                 |                                     |
| Soil suitable (Must be free from Brick, concrete, wood, plastics, glass, metal and anything none natural) if identified contact PM and take photos. |                 | <div>Yes</div>                      |
| Geotextile membrane present                                                                                                                         |                 | N/A                                 |





|                                                                                                                                                     |                 |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------|
| Plot Validation 5                                                                                                                                   |                 | 6 / 6 (100%)                          |
| What Three Words location                                                                                                                           |                 | POS 104 - ///split.wonderfully.reject |
| Is Location Ready                                                                                                                                   | <div>Yes</div>  |                                       |
| Installation Standard                                                                                                                               | <div>Pass</div> |                                       |
| Depth of Cover System Materials (record the depth and support with Photo down the hole)                                                             |                 | 300                                   |
|  <p>Photo 13</p>                                                   |                 |                                       |
| Depth of Topsoil (mm)                                                                                                                               |                 | 300                                   |
| Depth of Subsoil (mm)                                                                                                                               |                 | 0                                     |
| Depth of Cover System at Ground Level (Photo)                                                                                                       |                 | <input checked="" type="checkbox"/>   |
|  <p>Photo 14</p>                                                 |                 |                                       |
| Depth of Cover System in Relation to Plot (Ensure the whole plot can be seen in the photo)                                                          |                 | <input checked="" type="checkbox"/>   |
|  <p>Photo 15</p>                                                 |                 |                                       |
| Soil suitable (Must be free from Brick, concrete, wood, plastics, glass, metal and anything none natural) if identified contact PM and take photos. |                 | <div>Yes</div>                        |
| Geotextile membrane present                                                                                                                         |                 | N/A                                   |





|                                                                                                                                                     |      |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------|
| Plot Validation 6                                                                                                                                   |      | 6 / 6 (100%)                        |
| What Three Words location                                                                                                                           |      | POS 101 - ///stuck.props.thinks     |
| Is Location Ready                                                                                                                                   | Yes  |                                     |
| Installation Standard                                                                                                                               | Pass |                                     |
| Depth of Cover System Materials (record the depth and support with Photo down the hole)                                                             |      | 300                                 |
|  <p>Photo 16</p>                                                   |      |                                     |
| Depth of Topsoil (mm)                                                                                                                               |      | 300                                 |
| Depth of Subsoil (mm)                                                                                                                               |      | 0                                   |
| Depth of Cover System at Ground Level (Photo)                                                                                                       |      | <input checked="" type="checkbox"/> |
|  <p>Photo 17</p>                                                 |      |                                     |
| Depth of Cover System in Relation to Plot (Ensure the whole plot can be seen in the photo)                                                          |      | <input checked="" type="checkbox"/> |
|  <p>Photo 18</p>                                                 |      |                                     |
| Soil suitable (Must be free from Brick, concrete, wood, plastics, glass, metal and anything none natural) if identified contact PM and take photos. |      | Yes                                 |
| Geotextile membrane present                                                                                                                         |      | N/A                                 |





Site Manager or Representative

Name

Graham Richardson

Signature

10 Oct 2024 1:56 PM BST





## Media summary



Photo 1



Photo 2



Photo 3



Photo 4





Photo 5



Photo 6



Photo 7



Photo 8





Photo 9



Photo 10



Photo 11



Photo 12





Photo 13



Photo 14



Photo 15



Photo 16





Photo 17



Photo 18





**NOTES:**

For details of species refer to Plant Schedule, on sheet 03.

All soft landscaping to strictly conform to Countryside Properties Plc Performance Specification for Soft Landscape Works.

All Street Trees to be minimum 2m clear stems.

No species, centre, size etc.... is to be amended without the prior approval of the landscape architect.

Shrub Bed Topsoil:  
The level of shrub bed topsoil is to be finished 50mm below the adjacent paving and grass so that when bark mulch is applied it does not spill over.

The use of pesticides and other non-organic garden chemicals are to be kept a minimum to prevent any cumulative effects within the food chain.

Good horticultural practices shall be implemented within the planting scheme e.g. use of peat-free composts and mulches and application of non-residual pesticides.

All trees / shrubs to be checked by a structural engineer in compliance of NHBC requirements for design of foundations.

For tree planting details refer to final sheet Typical Tree Pit Detail Semi Mature Tree in Soft Landscape Areas and Typical Tree Pit Detail Extra Heavy Standard Tree in Soft Landscape Areas.

Do not scale.

**KEY**

- Shrub / Specimen / Hedge planting (Min. 450mm deep, prepared topsoil to BS 3882:2015).
- All hedging to be evened up / clipped on planting (apart from Lavender if due to flower).
- Area to be turfed (front gardens), turfed/seeded (Rear gardens / POS) (Min. 150mm deep, prepared topsoil to BS 3882:2015).
- Proposed standard tree type in soft landscape.
- Lighting

|     |          |    |                                                  |       |
|-----|----------|----|--------------------------------------------------|-------|
| D   | 02.08.24 | NC | Amends to latest layout                          | NC    |
| C   | 11.03.22 | NC | Landscape adjusted, plots 26 & 203               | NC    |
| B   | 24.02.22 | NC | Amends to latest layout                          | NC    |
| A   | 12.05.21 | NC | Amends to layout, lighting, highways track added | NC    |
| Rev | Date     | By | Description                                      | Drawn |

Landscape Architecture  
Trevor Bridge Associates Ltd  
Aston Old Batts  
Stamford Street West  
Aston-under-Lyme  
Lancs OL6 7FW  
Tel: 0161-804 2099  
E-mail: info@trevorbridge.co.uk

**COUNTRYSIDE**  
Places People Love  
Countryside Properties (UK) Limited  
361 Bridgewater Place  
Bridgewater Park, Birkbeck  
Warrington, Cheshire, WA9 6EQ  
Tel: 01928 540000 Fax: 01928 540001  
www.countryside-properties.com

Site: **Belle View, Manchester**  
Title: **Landscape Detail**

Scale: **1:200** drawn by: **NC**  
Date: **August 2020** checked: **JWV**  
Drawing no: **5797.05**  
Sheet no: **3 of 4** Project: **D**





**NOTES:**

For details of species refer to Plant Schedule, on sheet 03.

All soft landscaping to strictly conform to Countryside Properties Plc Performance Specification for Soft Landscape Works.

All Street Trees to be minimum 2m clear stems.

No species, centre, size etc.... is to be amended without the prior approval of the landscape architect.

**Shrub Bed Topsoil:**  
The level of shrub bed topsoil is to be finished 50mm below the adjacent paving and grass so that when bark mulch is applied it does not spill over.

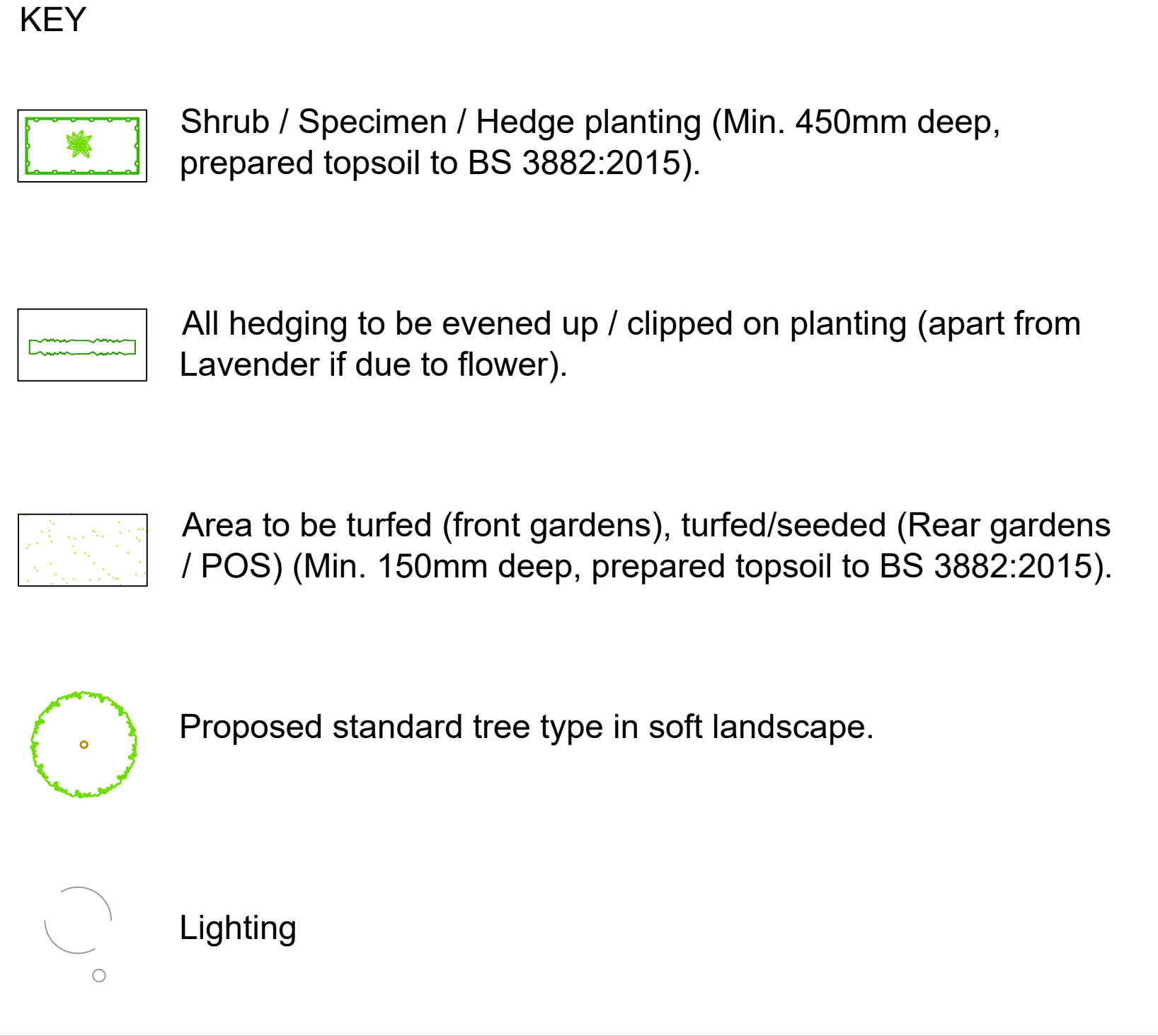
The use of pesticides and other non-organic garden chemicals are to be kept a minimum to prevent any cumulative effects within the food chain.

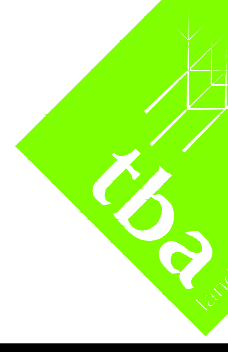
Good horticultural practices shall be implemented within the planting scheme e.g. use of peat-free composts and mulches and application of non-residual pesticides.

All trees / shrubs to be checked by a structural engineer in compliance of NHBC requirements for design of foundations.

For tree planting details refer to final sheet Typical Tree Pit Detail Semi Mature Tree In Soft Landscape Areas and Typical Tree Pit Detail Extra Heavy Standard Tree In Soft Landscape Areas.

Do not scale.



|                                                                                                                                                                                                                                                                                                                                                                  |                           |           |                                                     |           |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------|-----------------------------------------------------|-----------|---|
| E                                                                                                                                                                                                                                                                                                                                                                | 02.08.24                  | NC        | Amends to latest layout                             | NC        |   |
| D                                                                                                                                                                                                                                                                                                                                                                | 11.03.22                  | NC        | Landscape adjusted, plots 25 & 203                  | NC        |   |
| C                                                                                                                                                                                                                                                                                                                                                                | 24.02.22                  | NC        | Amends to latest layout                             | NC        |   |
| B                                                                                                                                                                                                                                                                                                                                                                | 04.08.21                  | NC        | Planting omitted from sub-station                   | NC        |   |
| A                                                                                                                                                                                                                                                                                                                                                                | 12.05.21                  | NC        | Amends to layout, lighting, highways<br>trees added | NC        |   |
| Rev                                                                                                                                                                                                                                                                                                                                                              | Date                      | By        | Description                                         | CHK'd     |   |
| <div>Landscape Architecture<br/>Arbiculture</div> <div><div>Trevor Bridge Associates Ltd<br/>Aston Old Batts<br/>Stamford Street West<br/>Aston-under-Lyme<br/>Lancs OL6 7FW<br/>Tel: 0161-804 2099<br/>E-mail: info@trevorbridge.co.uk</div></div>                         |                           |           |                                                     |           |   |
| <div><div><b>COUNTRYSIDE</b><br/>Places People Love</div><div>Countryside Properties (UK) Limited<br/>Penny Lane, North<br/>361 Bridgewater Place,<br/>Bridgewater, Cheshire, WA5 6EQ<br/>Tel: 01256 340000 Fax: 01256 340001<br/>www.countrysideproperties.com</div></div> |                           |           |                                                     |           |   |
| site:                                                                                                                                                                                                                                                                                                                                                            | Belle View,<br>Manchester |           |                                                     |           |   |
| site:                                                                                                                                                                                                                                                                                                                                                            | Landscape Detail          |           |                                                     |           |   |
| scale:                                                                                                                                                                                                                                                                                                                                                           | 1:200                     | drawn by: | NC                                                  |           |   |
| date:                                                                                                                                                                                                                                                                                                                                                            | August 2020               | checked:  | JW                                                  |           |   |
| drawing no:                                                                                                                                                                                                                                                                                                                                                      | 5797.04                   |           |                                                     |           |   |
| sheet no:                                                                                                                                                                                                                                                                                                                                                        | 2 of 4                    |           |                                                     | revision: | E |



# Final Report

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**Report No.:** 24-10965-1

**Initial Date of Issue:** 16-Apr-2024

**Re-Issue Details:**

**Client** E3P

**Client Address:** Taylor Road  
Trafford Park  
Urmston  
Manchester  
M41 7JQ

**Contact(s):** Nicola Sellars nsellars@e3p.co.uk;  
Rebecca Hodnett rhodnett@e3p.co.uk

**Project** 12-123 Belle Vue

**Quotation No.:** Q23-31421 **Date Received:** 10-Apr-2024

**Order No.:** 7902 **Date Instructed:** 10-Apr-2024

**No. of Samples:** 6

**Turnaround (Wkdays):** 5 **Results Due:** 16-Apr-2024

**Date Approved:** 16-Apr-2024

**Approved By:**



**Details:** David Smith, Technical Director

**For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report**

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## Results - Soil

**Project: 12-123 Belle Vue**

|                                     |                  |                             |            |              |             |                      |                      |                      |                      |                      |
|-------------------------------------|------------------|-----------------------------|------------|--------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Client: E3P</b>                  |                  | <b>Chemtest Job No.:</b>    |            | 24-10965     | 24-10965    | 24-10965             | 24-10965             | 24-10965             | 24-10965             | 24-10965             |
| Quotation No.: Q23-31421            |                  | <b>Chemtest Sample ID.:</b> |            | 1790954      | 1790955     | 1790956              | 1790957              | 1790958              | 1790959              |                      |
|                                     |                  | Client Sample ID.:          |            | TS101        | TS102       | TS103                | SS101                | SS102                | SS103                |                      |
|                                     |                  | Sample Type:                |            | SOIL         | SOIL        | SOIL                 | SOIL                 | SOIL                 | SOIL                 |                      |
|                                     |                  | Date Sampled:               |            | 08-Apr-2024  | 08-Apr-2024 | 08-Apr-2024          | 08-Apr-2024          | 08-Apr-2024          | 08-Apr-2024          |                      |
|                                     |                  | Time Sampled:               |            | 0:00         | 0:00        | 0:00                 | 0:00                 | 0:00                 | 0:00                 |                      |
|                                     |                  | Asbestos Lab:               |            | DURHAM       | DURHAM      | DURHAM               | DURHAM               | DURHAM               | DURHAM               |                      |
| <b>Determinand</b>                  | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b>  |                      |                      |                      |                      |                      |
| ACM Type                            |                  | U                           | 2192       |              | N/A         | -                    | -                    | -                    | -                    | -                    |
| Asbestos Identification             |                  | U                           | 2192       |              | N/A         | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected |
| Moisture                            |                  | N                           | 2030       | %            | 0.020       | 5.3                  | 15                   | 15                   | 20                   | 25                   |
| Soil Colour                         |                  | N                           | 2040       |              | N/A         | Brown                | Brown                | Brown                | Brown                | Brown                |
| Other Material                      |                  | N                           | 2040       |              | N/A         | Stones and Roots     | Stones and Roots     | Stones and Roots     | Stones and Roots     | Stones and Roots     |
| Soil Texture                        |                  | N                           | 2040       |              | N/A         | Clay                 | Clay                 | Clay                 | Clay                 | Clay                 |
| pH at 20C                           |                  | M                           | 2010       |              | 4.0         | 7.8                  | 7.9                  | 7.7                  | 7.3                  | 7.2                  |
| Sulphate (2:1 Water Soluble) as SO4 |                  | M                           | 2120       | g/l          | 0.010       | 0.11                 | 0.065                | 0.10                 | 0.081                | 0.049                |
| Total Sulphur                       |                  | U                           | 2175       | %            | 0.010       | 0.031                | 0.057                | 0.064                | 0.056                | 0.059                |
| Cyanide (Total)                     |                  | M                           | 2300       | mg/kg        | 0.50        | < 0.50               | < 0.50               | < 0.50               | < 0.50               | < 0.50               |
| Sulphide (Easily Liberatable)       |                  | N                           | 2325       | mg/kg        | 0.50        | 4.6                  | 5.6                  | 3.9                  | 3.9                  | 5.0                  |
| Sulphate (Total)                    |                  | U                           | 2430       | %            | 0.010       | 0.069                | 0.11                 | 0.088                | 0.13                 | 0.12                 |
| Arsenic                             |                  | M                           | 2455       | mg/kg        | 0.5         | 3.8                  | 9.4                  | 5.1                  | 16                   | 15                   |
| Cadmium                             |                  | M                           | 2455       | mg/kg        | 0.10        | < 0.10               | < 0.10               | 0.15                 | < 0.10               | 0.14                 |
| Chromium                            |                  | M                           | 2455       | mg/kg        | 0.5         | 21                   | 50                   | 22                   | 21                   | 21                   |
| Copper                              |                  | M                           | 2455       | mg/kg        | 0.50        | 20                   | 44                   | 30                   | 37                   | 40                   |
| Mercury                             |                  | M                           | 2455       | mg/kg        | 0.05        | 0.09                 | 0.22                 | 0.26                 | 0.87                 | 0.93                 |
| Nickel                              |                  | M                           | 2455       | mg/kg        | 0.50        | 16                   | 37                   | 14                   | 17                   | 17                   |
| Lead                                |                  | M                           | 2455       | mg/kg        | 0.50        | 33                   | 59                   | 38                   | 74                   | 77                   |
| Selenium                            |                  | M                           | 2455       | mg/kg        | 0.25        | 0.25                 | 1.0                  | 0.39                 | 0.67                 | 0.60                 |
| Zinc                                |                  | M                           | 2455       | mg/kg        | 0.50        | 52                   | 120                  | 48                   | 65                   | 73                   |
| Chromium (Hexavalent)               |                  | N                           | 2490       | mg/kg        | 0.50        | < 0.50               | < 0.50               | < 0.50               | < 0.50               | < 0.50               |
| Total Organic Carbon                |                  | M                           | 2625       | %            | 0.20        | 2.2                  | 2.4                  | 4.1                  | 6.8                  | 4.4                  |
| TPH >C6-C8                          | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                |
| TPH >C8-C10                         | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                |
| TPH >C10-C12                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | 6.8                  | 4.2                  | 6.6                  | < 1.0                | 9.2                  |
| TPH >C12-C16                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | 18                   | 22                   | 22                   | < 1.0                | 31                   |
| TPH >C16-C21                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | 51                   | 61                   | 52                   | < 1.0                | 40                   |
| TPH >C21-C25                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | 32                   | 41                   | 39                   | < 1.0                | 11                   |
| TPH >C25-C35                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | 81                   | 99                   | 100                  | < 1.0                | < 1.0                |
| TPH >C35-C40                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | 12                   | 13                   | 16                   | < 1.0                | < 1.0                |
| Total TPH >C6-C40                   | EH_1D_Total      | M                           | 2670       | mg/kg        | 10          | 200                  | 240                  | 240                  | < 10                 | 92                   |
| Naphthalene                         |                  | M                           | 2800       | mg/kg        | 0.10        | < 0.10               | < 0.10               | 0.27                 | < 0.10               | < 0.10               |
| Acenaphthylene                      |                  | N                           | 2800       | mg/kg        | 0.10        | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10               |
| Acenaphthene                        |                  | M                           | 2800       | mg/kg        | 0.10        | < 0.10               | < 0.10               | 0.53                 | < 0.10               | < 0.10               |
| Fluorene                            |                  | M                           | 2800       | mg/kg        | 0.10        | < 0.10               | < 0.10               | 0.39                 | < 0.10               | < 0.10               |
| Phenanthrene                        |                  | M                           | 2800       | mg/kg        | 0.10        | 2.6                  | 1.9                  | 3.1                  | 0.56                 | 0.34                 |

## Results - Soil

**Project: 12-123 Belle Vue**

|                          |                  |                             |            |              |            |        |             |             |             |             |             |             |
|--------------------------|------------------|-----------------------------|------------|--------------|------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Client: E3P</b>       |                  | <b>Chemtest Job No.:</b>    |            |              |            |        | 24-10965    | 24-10965    | 24-10965    | 24-10965    | 24-10965    | 24-10965    |
| Quotation No.: Q23-31421 |                  | <b>Chemtest Sample ID.:</b> |            |              |            |        | 1790954     | 1790955     | 1790956     | 1790957     | 1790958     | 1790959     |
|                          |                  | <b>Client Sample ID.:</b>   |            |              |            |        | TS101       | TS102       | TS103       | SS101       | SS102       | SS103       |
|                          |                  | <b>Sample Type:</b>         |            |              |            |        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        |
|                          |                  | <b>Date Sampled:</b>        |            |              |            |        | 08-Apr-2024 | 08-Apr-2024 | 08-Apr-2024 | 08-Apr-2024 | 08-Apr-2024 | 08-Apr-2024 |
|                          |                  | <b>Time Sampled:</b>        |            |              |            |        | 0:00        | 0:00        | 0:00        | 0:00        | 0:00        | 0:00        |
|                          |                  | <b>Asbestos Lab:</b>        |            |              |            |        | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      |
| <b>Determinand</b>       | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |        |             |             |             |             |             |             |
| Anthracene               |                  | M                           | 2800       | mg/kg        | 0.10       | 0.75   | 0.52        | 0.75        | 0.11        | < 0.10      | < 0.10      |             |
| Fluoranthene             |                  | M                           | 2800       | mg/kg        | 0.10       | 3.5    | 2.7         | 4.3         | 0.99        | 0.45        | 0.38        |             |
| Pyrene                   |                  | M                           | 2800       | mg/kg        | 0.10       | 2.8    | 2.4         | 3.9         | 0.88        | 0.39        | 0.34        |             |
| Benzo[a]anthracene       |                  | M                           | 2800       | mg/kg        | 0.10       | 1.3    | 1.1         | 1.7         | 0.42        | 0.22        | < 0.10      |             |
| Chrysene                 |                  | M                           | 2800       | mg/kg        | 0.10       | 1.1    | 1.2         | 1.9         | 0.42        | 0.22        | < 0.10      |             |
| Benzo[b]fluoranthene     |                  | M                           | 2800       | mg/kg        | 0.10       | 1.6    | 1.3         | 2.2         | 0.57        | < 0.10      | < 0.10      |             |
| Benzo[k]fluoranthene     |                  | M                           | 2800       | mg/kg        | 0.10       | 0.56   | 0.46        | 0.75        | 0.18        | < 0.10      | < 0.10      |             |
| Benzo[a]pyrene           |                  | M                           | 2800       | mg/kg        | 0.10       | 1.5    | 1.1         | 1.9         | 0.53        | < 0.10      | < 0.10      |             |
| Indeno(1,2,3-c,d)Pyrene  |                  | M                           | 2800       | mg/kg        | 0.10       | 0.87   | 0.70        | 1.1         | 0.32        | < 0.10      | < 0.10      |             |
| Dibenz(a,h)Anthracene    |                  | N                           | 2800       | mg/kg        | 0.10       | 0.14   | < 0.10      | 0.22        | < 0.10      | < 0.10      | < 0.10      |             |
| Benzo[g,h,i]perylene     |                  | M                           | 2800       | mg/kg        | 0.10       | 0.73   | 0.77        | 1.1         | 0.35        | < 0.10      | < 0.10      |             |
| Total Of 16 PAH's        |                  | N                           | 2800       | mg/kg        | 2.0        | 18     | 14          | 24          | 5.3         | < 2.0       | < 2.0       |             |
| Total Phenols            |                  | M                           | 2920       | mg/kg        | 0.10       | < 0.10 | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |             |

## Test Methods

| SOP  | Title                                                              | Parameters included                                                                                                                                                                                                                                                       | Method summary                                                                                                                                                                         | Water Accred. |
|------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 2010 | pH Value of Soils                                                  | pH at 20°C                                                                                                                                                                                                                                                                | pH Meter                                                                                                                                                                               |               |
| 2030 | Moisture and Stone Content of Soils(Requirement of MCERTS)         | Moisture content                                                                                                                                                                                                                                                          | Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.                                                                                   |               |
| 2040 | Soil Description(Requirement of MCERTS)                            | Soil description                                                                                                                                                                                                                                                          | As received soil is described based upon BS5930                                                                                                                                        |               |
| 2120 | Water Soluble Boron, Sulphate, Magnesium & Chromium                | Boron; Sulphate; Magnesium; Chromium                                                                                                                                                                                                                                      | Aqueous extraction / ICP-OES                                                                                                                                                           |               |
| 2175 | Total Sulphur in Soils                                             | Total Sulphur                                                                                                                                                                                                                                                             | Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.                                                                                             |               |
| 2192 | Asbestos                                                           | Asbestos                                                                                                                                                                                                                                                                  | Polarised light microscopy / Gravimetry                                                                                                                                                |               |
| 2300 | Cyanides & Thiocyanate in Soils                                    | Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate                                                                                                                                                                                           | Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.                                                                                    |               |
| 2325 | Sulphide in Soils                                                  | Sulphide                                                                                                                                                                                                                                                                  | Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.                                                           |               |
| 2430 | Total Sulphate in soils                                            | Total Sulphate                                                                                                                                                                                                                                                            | Acid digestion followed by determination of sulphate in extract by ICP-OES.                                                                                                            |               |
| 2455 | Acid Soluble Metals in Soils                                       | Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc                                                                                                                  | Acid digestion followed by determination of metals in extract by ICP-MS.                                                                                                               |               |
| 2490 | Hexavalent Chromium in Soils                                       | Chromium [VI]                                                                                                                                                                                                                                                             | Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine. |               |
| 2625 | Total Organic Carbon in Soils                                      | Total organic Carbon (TOC)                                                                                                                                                                                                                                                | Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.                                                                                             |               |
| 2670 | Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID              | TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40                                                                                                                                                                                            | Dichloromethane extraction / GC-FID                                                                                                                                                    |               |
| 2800 | Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS | Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene* | Dichloromethane extraction / GC-MS                                                                                                                                                     |               |
| 2920 | Phenols in Soils by HPLC                                           | Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.                                                                                                                         | 60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.                                                                               |               |

## **Report Information**

### **Key**

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|     |                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------------|
| U   | UKAS accredited                                                                                               |
| M   | MCERTS and UKAS accredited                                                                                    |
| N   | Unaccredited                                                                                                  |
| S   | This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis     |
| SN  | This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis |
| T   | This analysis has been subcontracted to an unaccredited laboratory                                            |
| I/S | Insufficient Sample                                                                                           |
| U/S | Unsuitable Sample                                                                                             |
| N/E | not evaluated                                                                                                 |
| <   | "less than"                                                                                                   |
| >   | "greater than"                                                                                                |
| SOP | Standard operating procedure                                                                                  |
| LOD | Limit of detection                                                                                            |

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

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- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

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All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

### **Water Sample Category Key for Accreditation**

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- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable
- PL - Prepared Leachate
- PW - Processed Water

## **Report Information**

RE - Recreational Water  
SA - Saline Water  
SW - Surface Water  
TE - Treated Effluent  
TS - Treated Sewage  
UL - Unspecified Liquid

### **Clean Up Codes**

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NC - No Clean Up  
MC - Mathematical Clean Up  
FC - Florisil Clean Up

### **HWOL Acronym System**

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HS - Headspace analysis  
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent  
CU - Clean-up – e.g. by Florisil, silica gel  
1D - GC – Single coil gas chromatography  
Total - Aliphatics & Aromatics  
AL - Aliphatics only  
AR - Aromatic only  
2D - GC-GC – Double coil gas chromatography  
#1 - EH\_2D\_Total but with humics mathematically subtracted  
#2 - EH\_2D\_Total but with fatty acids mathematically subtracted  
+ - Operator to indicate cumulative e.g. EH+EH\_Total or EH\_CU+HS\_Total

If you require extended retention of samples, please email your requirements to:  
[customerservices@chemtest.com](mailto:customerservices@chemtest.com)



# Final Report

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**Report No.:** 24-30860-1

**Initial Date of Issue:** 01-Oct-2024

**Re-Issue Details:**

**Client** E3P

**Client Address:** Taylor Road  
Trafford Park  
Urmston  
Manchester  
M41 7JQ

**Contact(s):** nsellars@e3p.co.uk  
Nicola Sellars  
Rebecca Hodnett

**Project** 12-123 Belle Vue

**Quotation No.:** Q23-31421

**Date Received:** 25-Sep-2024

**Order No.:** 9496

**Date Instructed:** 25-Sep-2024

**No. of Samples:** 5

**Turnaround (Wkdays):** 4

**Results Due:** 30-Sep-2024

**Date Approved:** 01-Oct-2024

**Approved By:**

**Details:** David Smith, Technical Director

**For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report**

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## Results - Soil

**Project: 12-123 Belle Vue**

|                                     |                  |                             |            |              |             |                      |                      |                      |
|-------------------------------------|------------------|-----------------------------|------------|--------------|-------------|----------------------|----------------------|----------------------|
| <b>Client: E3P</b>                  |                  | <b>Chemtest Job No.:</b>    |            | 24-30860     | 24-30860    | 24-30860             | 24-30860             | 24-30860             |
| Quotation No.: Q23-31421            |                  | <b>Chemtest Sample ID.:</b> |            | 1871494      | 1871495     | 1871496              | 1871497              | 1871498              |
|                                     |                  | Client Sample ID.:          |            | TS101        | TS102       | TS201                | TS202                | TS203                |
|                                     |                  | Sample Type:                |            | SOIL         | SOIL        | SOIL                 | SOIL                 | SOIL                 |
|                                     |                  | Date Sampled:               |            | 18-Sep-2024  | 18-Sep-2024 | 18-Sep-2024          | 18-Sep-2024          | 18-Sep-2024          |
|                                     |                  | Time Sampled:               |            | 0:00         | 0:00        | 0:00                 | 0:00                 | 0:00                 |
|                                     |                  | Asbestos Lab:               |            | DURHAM       | DURHAM      | DURHAM               | DURHAM               | DURHAM               |
| <b>Determinand</b>                  | <b>HWOL Code</b> | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b>  |                      |                      |                      |
| ACM Type                            |                  | U                           | 2192       |              | N/A         | -                    | -                    | -                    |
| Asbestos Identification             |                  | U                           | 2192       |              | N/A         | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected |
| Moisture                            |                  | N                           | 2030       | %            | 0.020       | 31                   | 28                   | 24                   |
| Soil Colour                         |                  | N                           | 2040       |              | N/A         | Brown                | Brown                | Brown                |
| Other Material                      |                  | N                           | 2040       |              | N/A         | Roots                | Stones               | Stones               |
| Soil Texture                        |                  | N                           | 2040       |              | N/A         | Clay                 | Clay                 | Clay                 |
| pH at 20C                           |                  | M                           | 2010       |              | 4.0         | 8.3                  | 8.3                  | 6.3                  |
| Sulphate (2:1 Water Soluble) as SO4 |                  | M                           | 2120       | g/l          | 0.010       | 0.049                | 0.076                | < 0.010              |
| Total Sulphur                       |                  | U                           | 2175       | %            | 0.010       | 0.060                | 0.060                | 0.050                |
| Cyanide (Total)                     |                  | M                           | 2300       | mg/kg        | 0.50        | 0.60                 | 0.70                 | 0.70                 |
| Sulphide (Easily Liberatable)       |                  | N                           | 2325       | mg/kg        | 0.50        | 3.6                  | 3.8                  | 3.9                  |
| Sulphate (Total)                    |                  | U                           | 2430       | %            | 0.010       | 0.21                 | 0.16                 | 0.19                 |
| Arsenic                             |                  | M                           | 2455       | mg/kg        | 0.5         | 15                   | 12                   | 14                   |
| Cadmium                             |                  | M                           | 2455       | mg/kg        | 0.10        | < 0.10               | < 0.10               | < 0.10               |
| Chromium                            |                  | M                           | 2455       | mg/kg        | 0.5         | 21                   | 16                   | 20                   |
| Copper                              |                  | M                           | 2455       | mg/kg        | 0.50        | 39                   | 30                   | 37                   |
| Mercury                             |                  | M                           | 2455       | mg/kg        | 0.05        | 0.36                 | 0.24                 | 0.26                 |
| Nickel                              |                  | M                           | 2455       | mg/kg        | 0.50        | 17                   | 13                   | 15                   |
| Lead                                |                  | M                           | 2455       | mg/kg        | 0.50        | 88                   | 70                   | 84                   |
| Selenium                            |                  | M                           | 2455       | mg/kg        | 0.25        | 0.98                 | 0.86                 | 0.94                 |
| Zinc                                |                  | M                           | 2455       | mg/kg        | 0.50        | 98                   | 73                   | 97                   |
| Chromium (Hexavalent)               |                  | N                           | 2490       | mg/kg        | 0.50        | < 0.50               | < 0.50               | < 0.50               |
| Organic Matter                      |                  | M                           | 2625       | %            | 0.40        | 9.5                  | 8.3                  | 8.1                  |
| Total Organic Carbon                |                  | M                           | 2625       | %            | 0.20        | 5.5                  | 4.8                  | 4.7                  |
| TPH >C6-C8                          | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | < 1.0                | < 1.0                | < 1.0                |
| TPH >C8-C10                         | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | < 1.0                | < 1.0                | < 1.0                |
| TPH >C10-C12                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | < 1.0                | < 1.0                | < 1.0                |
| TPH >C12-C16                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | < 1.0                | < 1.0                | < 1.0                |
| TPH >C16-C21                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | 5.4                  | 8.8                  | 4.5                  |
| TPH >C21-C25                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | 12                   | 13                   | 8.1                  |
| TPH >C25-C35                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | 40                   | 65                   | 36                   |
| TPH >C35-C40                        | EH_1D_Total      | N                           | 2670       | mg/kg        | 1.0         | 4.2                  | 12                   | 4.2                  |
| Total TPH >C6-C40                   | EH_1D_Total      | U                           | 2670       | mg/kg        | 10          | 61                   | 98                   | 53                   |
| Naphthalene                         |                  | M                           | 2800       | mg/kg        | 0.10        | 0.13                 | 0.12                 | < 0.10               |
| Acenaphthylene                      |                  | N                           | 2800       | mg/kg        | 0.10        | < 0.10               | < 0.10               | < 0.10               |
| Acenaphthene                        |                  | M                           | 2800       | mg/kg        | 0.10        | 0.15                 | < 0.10               | < 0.10               |
| Fluorene                            |                  | M                           | 2800       | mg/kg        | 0.10        | < 0.10               | < 0.10               | < 0.10               |
| Phenanthrene                        |                  | M                           | 2800       | mg/kg        | 0.10        | 0.69                 | 0.62                 | 0.70                 |

## Results - Soil

**Project: 12-123 Belle Vue**

|                          |                  |                                                                           |            |              |            |        |        |        |        |        |
|--------------------------|------------------|---------------------------------------------------------------------------|------------|--------------|------------|--------|--------|--------|--------|--------|
| <b>Client: E3P</b>       |                  | <b>Chemtest Job No.:</b> 24-30860 24-30860 24-30860 24-30860 24-30860     |            |              |            |        |        |        |        |        |
| Quotation No.: Q23-31421 |                  | <b>Chemtest Sample ID.:</b> 1871494 1871495 1871496 1871497 1871498       |            |              |            |        |        |        |        |        |
|                          |                  | Client Sample ID.: TS101 TS102 TS201 TS202 TS203                          |            |              |            |        |        |        |        |        |
|                          |                  | Sample Type: SOIL SOIL SOIL SOIL SOIL                                     |            |              |            |        |        |        |        |        |
|                          |                  | Date Sampled: 18-Sep-2024 18-Sep-2024 18-Sep-2024 18-Sep-2024 18-Sep-2024 |            |              |            |        |        |        |        |        |
|                          |                  | Time Sampled: 0:00 0:00 0:00 0:00 0:00                                    |            |              |            |        |        |        |        |        |
|                          |                  | Asbestos Lab: DURHAM DURHAM DURHAM DURHAM DURHAM                          |            |              |            |        |        |        |        |        |
| <b>Determinand</b>       | <b>HWOL Code</b> | <b>Accred.</b>                                                            | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |        |        |        |        |        |
| Anthracene               |                  | M                                                                         | 2800       | mg/kg        | 0.10       | 0.16   | 0.16   | 0.13   | < 0.10 | < 0.10 |
| Fluoranthene             |                  | M                                                                         | 2800       | mg/kg        | 0.10       | 0.97   | 1.3    | 1.0    | 0.73   | 0.83   |
| Pyrene                   |                  | M                                                                         | 2800       | mg/kg        | 0.10       | 0.79   | 1.1    | 0.89   | 0.63   | 0.75   |
| Benzo[a]anthracene       |                  | M                                                                         | 2800       | mg/kg        | 0.10       | 0.44   | 0.57   | 0.47   | 0.32   | 0.41   |
| Chrysene                 |                  | M                                                                         | 2800       | mg/kg        | 0.10       | 0.42   | 0.60   | 0.46   | 0.33   | 0.40   |
| Benzo[b]fluoranthene     |                  | M                                                                         | 2800       | mg/kg        | 0.10       | 0.59   | 0.70   | 0.61   | 0.47   | 0.49   |
| Benzo[k]fluoranthene     |                  | M                                                                         | 2800       | mg/kg        | 0.10       | 0.16   | 0.24   | 0.20   | 0.16   | 0.17   |
| Benzo[a]pyrene           |                  | M                                                                         | 2800       | mg/kg        | 0.10       | 0.40   | 0.60   | 0.50   | 0.33   | 0.37   |
| Indeno(1,2,3-c,d)Pyrene  |                  | M                                                                         | 2800       | mg/kg        | 0.10       | < 0.10 | 0.37   | 0.26   | < 0.10 | < 0.10 |
| Dibenz(a,h)Anthracene    |                  | N                                                                         | 2800       | mg/kg        | 0.10       | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Benzo[g,h,i]perylene     |                  | M                                                                         | 2800       | mg/kg        | 0.10       | < 0.10 | 0.41   | 0.30   | < 0.10 | < 0.10 |
| Total Of 16 PAH's        |                  | N                                                                         | 2800       | mg/kg        | 2.0        | 4.9    | 6.8    | 5.5    | 3.4    | 3.8    |
| Total Phenols            |                  | M                                                                         | 2920       | mg/kg        | 0.10       | 0.12   | 0.24   | 0.34   | 0.64   | 0.63   |

## Test Methods

| SOP  | Title                                                              | Parameters included                                                                                                                                                                                                                                                       | Method summary                                                                                                                                                                         | Water Accred. |
|------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 2010 | pH Value of Soils                                                  | pH at 20°C                                                                                                                                                                                                                                                                | pH Meter                                                                                                                                                                               |               |
| 2030 | Moisture and Stone Content of Soils(Requirement of MCERTS)         | Moisture content                                                                                                                                                                                                                                                          | Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.                                                                                   |               |
| 2040 | Soil Description(Requirement of MCERTS)                            | Soil description                                                                                                                                                                                                                                                          | As received soil is described based upon BS5930                                                                                                                                        |               |
| 2120 | Water Soluble Boron, Sulphate, Magnesium & Chromium                | Boron; Sulphate; Magnesium; Chromium                                                                                                                                                                                                                                      | Aqueous extraction / ICP-OES                                                                                                                                                           |               |
| 2175 | Total Sulphur in Soils                                             | Total Sulphur                                                                                                                                                                                                                                                             | Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.                                                                                             |               |
| 2192 | Asbestos                                                           | Asbestos                                                                                                                                                                                                                                                                  | Polarised light microscopy / Gravimetry                                                                                                                                                |               |
| 2300 | Cyanides & Thiocyanate in Soils                                    | Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate                                                                                                                                                                                           | Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.                                                                                    |               |
| 2325 | Sulphide in Soils                                                  | Sulphide                                                                                                                                                                                                                                                                  | Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.                                                           |               |
| 2430 | Total Sulphate in soils                                            | Total Sulphate                                                                                                                                                                                                                                                            | Acid digestion followed by determination of sulphate in extract by ICP-OES.                                                                                                            |               |
| 2455 | Acid Soluble Metals in Soils                                       | Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc                                                                                                                  | Acid digestion followed by determination of metals in extract by ICP-MS.                                                                                                               |               |
| 2490 | Hexavalent Chromium in Soils                                       | Chromium [VI]                                                                                                                                                                                                                                                             | Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine. |               |
| 2625 | Total Organic Carbon in Soils                                      | Total organic Carbon (TOC)                                                                                                                                                                                                                                                | Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.                                                                                             |               |
| 2670 | Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID              | TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40                                                                                                                                                                                            | Dichloromethane extraction / GC-FID                                                                                                                                                    |               |
| 2800 | Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS | Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene* | Dichloromethane extraction / GC-MS                                                                                                                                                     |               |
| 2920 | Phenols in Soils by HPLC                                           | Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.                                                                                                                         | 60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.                                                                               |               |

## **Report Information**

### **Key**

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|     |                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------------|
| U   | UKAS accredited                                                                                               |
| M   | MCERTS and UKAS accredited                                                                                    |
| N   | Unaccredited                                                                                                  |
| S   | This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis     |
| SN  | This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis |
| T   | This analysis has been subcontracted to an unaccredited laboratory                                            |
| I/S | Insufficient Sample                                                                                           |
| U/S | Unsuitable Sample                                                                                             |
| N/E | not evaluated                                                                                                 |
| <   | "less than"                                                                                                   |
| >   | "greater than"                                                                                                |
| SOP | Standard operating procedure                                                                                  |
| LOD | Limit of detection                                                                                            |

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at  $\leq 30^{\circ}\text{C}$  prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

### **Sample Deviation Codes**

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- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

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All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

### **Water Sample Category Key for Accreditation**

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- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

## **Report Information**

PL - Prepared Leachate  
PW - Processed Water  
RE - Recreational Water  
SA - Saline Water  
SW - Surface Water  
TE - Treated Effluent  
TS - Treated Sewage  
UL - Unspecified Liquid

### **Clean Up Codes**

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NC - No Clean Up  
MC - Mathematical Clean Up  
FC - Florisil Clean Up

### **HWOL Acronym System**

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HS - Headspace analysis  
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent  
CU - Clean-up – e.g. by Florisil, silica gel  
1D - GC – Single coil gas chromatography  
Total - Aliphatics & Aromatics  
AL - Aliphatics only  
AR - Aromatic only  
2D - GC-GC – Double coil gas chromatography  
#1 - EH\_2D\_Total but with humics mathematically subtracted  
#2 - EH\_2D\_Total but with fatty acids mathematically subtracted  
+ - Operator to indicate cumulative e.g. EH+EH\_Total or EH\_CU+HS\_Total

If you require extended retention of samples, please email your requirements to:  
[customerservices@chemtest.com](mailto:customerservices@chemtest.com)