

Mr John Coles Bury Hill Landscape Supplies Ltd The Estate Office Old Bury Hill Westcott Nr Dorking Surrey, RH4 3JU

> 3rd September 2021 Our Ref: TOHA/21/7139/SS

Your Ref: see below

Dear Sirs

Topsoil Analysis Report: Bury Hill Horsham Yard - Rose Garden Mix

We have completed the analysis of the soil sample recently submitted, referenced *Rose Garden Mix*, and have pleasure reporting our findings.

The purpose of the analysis was to determine the suitability of the sample for use as a topsoil specifically for growing roses. In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil (BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil).

This report presents the results of analysis for the sample submitted to our office, and it should be considered 'indicative' of the topsoil source. The report and results should therefore not be used by third parties as a means of verification or validation testing purposes, especially after the topsoil has left the Bury Hill Landscape Supplies Ltd site.

SAMPLE EXAMINATION

The sample was described as a very dark greyish brown (Munsell Colour 10YR 3/2), dry, friable, non-calcareous CLAY LOAM with a weakly developed, fine to medium granular structure. The sample was slightly stony and contained a low proportion of organic fines and occasional woody fragments. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.



Plate 1: Rose Garden Mix sample

ANALYTICAL SCHEDULE

The sample was submitted to a UKAS and MCERTS accredited laboratory for a range of physical and chemical tests to confirm the composition and fertility of the soil, and the concentration of selected potential contaminants. The following parameters were determined:

- detailed particle size analysis ('5 sands', silt, clay);
- stone content (2-20mm, 20-50mm, >50mm);
- pH and electrical conductivity values;
- exchangeable sodium percentage;
- major plant nutrients (N, P, K, Mg);
- organic matter content;
- C:N ratio;
- heavy metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn, B);
- total cyanide and total (mono) phenols;
- speciated PAHs (US EPA16 suite);
- aromatic and aliphatic TPH (C5-C35 banding);
- benzene, toluene, ethylbenzene, xylene (BTEX);
- asbestos screen.

The results are presented on the attached Certificate of Analysis and an interpretation of the results is given below.

RESULTS OF ANALYSIS

Particle Size Analysis and Stone Content

The sample fell into the *clay loam* texture class, which is considered ideal for roses provided the soil's physical condition is satisfactory.

Such soils usually have good water and nutrient retention capacities, but they are also prone to structural degradation and compaction during handling, and especially when plastic in consistency. Any damage to the structural condition of this soil could reduce its drainage and aeration properties.

The stone content of the sample was low and, as such, stones will not limit the topsoil's use. for rose planting purposes.

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pH and Electrical Conductivity Values

The sample was slightly alkaline in reaction (pH 7.4). This pH value is at the upper limit for most rose cultivars, which tend to prefer a pH range of 6.0-7.5, and ideally pH 6.5-7.0.

The electrical conductivity (salinity) value (water extract) was moderate, which indicates that soluble salts should not be present at levels that would be harmful to plants.

The electrical conductivity value by CaSO₄ extract (BS3882 requirement) fell below the maximum specified value (3300 µS/cm) given in BS3882:2015 – Table 1.

Organic Matter and Fertility Status

The sample was well supplied with organic matter and all major plant nutrients.

The C:N ratio of the sample was acceptable for planting purposes.

Potential Contaminants

With reference to BS3882:2015 - Table 1: Notes 3 and 4, there is a recommendation to confirm levels of potential contaminants in relation to the topsoil's proposed end use. This includes human health, environmental protection and metals considered toxic to plants. In the absence of site-specific assessment criteria, the concentrations that affect human health have been compared with the residential with homegrown produce land use in the Suitable For Use Levels (S4ULs) presented in The LQM/CIEH S4ULs for Human Health Risk Assessment (2015) and the DEFRA SP1010: Development of Category 4 Screening Levels (C4SLs) for Assessment of Land Affected by Contamination – Policy Companion Document (2014).

Of the potential contaminants determined, none was found at levels that exceeded their guideline values.

Phytotoxic Contaminants

Of the phytotoxic (toxic to plants) contaminants determined (copper, nickel, zinc), none was found at levels that exceeded the maximum permissible levels specified in BS3882:2015 – Table 1.

CONCLUSION

The purpose of the analysis was to determine the suitability of the sample for use as a topsoil specifically for growing roses. In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil (BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil).

Roses prefer moisture-retentive, fertile, organic-rich, well-drained soils. Clay soils are preferable to light, sandy soils, which tend to dry out quickly and their nutrients leach away.

From the soil examination and subsequent laboratory analysis, the sample was described as a slightly alkaline, non-saline, non-calcareous clay loam with a weakly developed structure and low stone content. The sample was well supplied with organic matter and major plant nutrients. Of the potential contaminants determined, none was found at levels that exceeded their guideline values.

Based on our findings, the topsoil represented by this sample would be considered suitable for roses provided the physical condition of the soil is satisfactory. If desired, the pH of the soil could be lowered by applying elemental sulphur.

The topsoil was also fully compliant with the requirements of the British Standard for Topsoil (BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil).

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Soil Handling Recommendations

It is important to maintain the physical condition of the soil and avoid structural damage during all phases of soil handling (e.g. stockpiling, respreading, cultivating, planting). As a consequence, soil handling operations should be carried out when soil is reasonably dry and non-plastic (friable) in consistency.

It is important to ensure that the soil is not unnecessarily compacted by trampling or trafficking by site machinery, and soil handling should be stopped during and after heavy rainfall and not continued until the soil is friable in consistency. If the soil is structurally damaged and compacted at any stage during the course of soiling or landscaping works, it should be cultivated appropriately to relieve the compaction and to restore the soil's structure prior to planting.

Further details on soil handling are provided in Annex A of BS3882:2015.

We hope this report meets with your approval and provides the necessary information. Please do not hesitate to contact the undersigned if we can be of further assistance.

Yours faithfully

Tilly Kimble-Wilde

BSc MSc

Graduate Soil Scientist

mkimble-lilde

For & on behalf of Tim O'Hare Associates LLP

Tim O'Hare

BSc MSc FISoilSci MBIAC CSci

Principal Consultant

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| Client: | Bury Hill Landscape Supplies Ltd |
|-------------|--|
| Project: | Bury Hill Horsham Yard - Rose Garden Mix |
| Job: | Topsoil Analysis - BS3882:2015 |
| Date: | 03/09/2021 |
| Job Ref No: | TOHA/21/7139/SS |

| Sample Reference | | | | Rose Garden Mix |
|---|---|---|---|--|
| • | | Accreditation | ĺ | |
| Clay (<0.002mm) | % | UKAS | | 21 |
| Silt (0.002-0.05mm) | % | UKAS | | 35 |
| Very Fine Sand (0.05-0.15mm) | % | UKAS | | 13 |
| Fine Sand (0.15-0.25mm) | % | UKAS | | 8 |
| Medium Sand (0.25-0.50mm) | % | UKAS | | 14 |
| Coarse Sand (0.50-1.0mm) | % | UKAS | | 5 |
| Very Coarse Sand (1.0-2.0mm) | % | UKAS | | 4 |
| Total Sand (0.05-2.0mm) | % | UKAS | | 44 |
| Texture Class (UK Classification) | % DW | UKAS GLP | | CL 7 |
| Stones (2-20mm) | % DW | GLP | | 0 |
| Stones (20-50mm) Stones (>50mm) | % DW | GLP | | 0 |
| Stories (>50mm) | 76 DVV | GLF | l | |
| pH Value (1:2.5 water extract) | units | UKAS | Ī | 7.4 |
| Electrical Conductivity (1:2.5 water extract) | uS/cm | UKAS | | 1054 |
| Electrical Conductivity (1:2 CaSO ₄ extract) | uS/cm | UKAS | | 3025 |
| Exchangeable Sodium Percentage | % | UKAS | 1 | 8.2 |
| Organic Matter (LOI) | % | UKAS | | 8.8 |
| Total Nitrogen (Dumas) | % | UKAS | | 0.39 |
| C : N Ratio | ratio | UKAS | | 13 |
| Extractable Phosphorus | mg/l | UKAS | | 25 |
| Extractable Potassium | mg/l | UKAS | Ì | 1388 |
| Extractable Magnesium | mg/l | UKAS | | 115 |
| | | | - | |
| Total Arsenic (As) | mg/kg | MCERTS | | 10 |
| Total Cadmium (Cd) | mg/kg | MCERTS | l | < 0.2 |
| Total Chromium (Cr) | mg/kg | MCERTS | | 20 |
| Hexavalent Chromium (Cr VI) | mg/kg | MCERTS | l | < 4.0 |
| Total Copper (Cu) | mg/kg | MCERTS | | 25 |
| Total Lead (Pb) | mg/kg | MCERTS | | 42 |
| Total Mercury (Hg) | mg/kg | MCERTS | | < 0.3 |
| Total Nickel (Ni) | mg/kg | MCERTS | | 13 |
| Total Selenium (Se) | mg/kg | MCERTS | | < 1.0 |
| Total Zinc (Zn) | mg/kg | MCERTS | | 78 |
| Water Soluble Boron (B) | mg/kg | MCERTS | | 2.1 |
| Total Cyanide (CN) | mg/kg | MCERTS | | < 1.0 |
| Total (mono) Phenols | mg/kg | MCERTS | | < 1.0 |
| | | | | |
| Markibalana | | MOEDTO | T | 0.05 |
| Naphthalene | mg/kg | MCERTS | Ī | < 0.05 |
| Acenaphthylene | mg/kg | MCERTS | | < 0.05 |
| Acenaphthylene Acenaphthene | mg/kg mg/kg | MCERTS MCERTS | | < 0.05 < 0.05 |
| Acenaphthylene Acenaphthene Fluorene | mg/kg mg/kg mg/kg | MCERTS MCERTS MCERTS | | < 0.05 < 0.05 < 0.05 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene | mg/kg mg/kg mg/kg mg/kg | MCERTS MCERTS MCERTS MCERTS | | < 0.05 < 0.05 < 0.05 0.2 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene | mg/kg mg/kg mg/kg mg/kg mg/kg | MCERTS MCERTS MCERTS MCERTS MCERTS | | < 0.05 < 0.05 < 0.05 0.2 < 0.05 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene | mg/kg mg/kg mg/kg mg/kg mg/kg | MCERTS MCERTS MCERTS MCERTS MCERTS MCERTS MCERTS | | < 0.05 < 0.05 < 0.05 0.2 < 0.05 0.47 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | MCERTS MCERTS MCERTS MCERTS MCERTS MCERTS MCERTS MCERTS MCERTS | | < 0.05 < 0.05 < 0.05 0.2 < 0.05 0.47 0.46 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | MCERTS | S | < 0.05 < 0.05 < 0.05 0.2 < 0.05 0.47 0.46 0.24 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | MCERTS | S | < 0.05 < 0.05 < 0.05 0.2 < 0.05 0.47 0.46 0.24 0.19 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Ghrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.22 <0.05 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | MCERTS | S | < 0.05 < 0.05 < 0.05 0.2 < 0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 < 0.05 < 0.05 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(a,h,i)perylene | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.22 <0.05 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1.2,3-cd)pyrene Indeno(1.2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,h)perylene Total PAHs (sum USEPA16) Aliphatic TPH > C5 - C6 Aliphatic TPH > C6 - C8 | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene Total PAHs (sum USEPA16) Aliphatic TPH > C6 - C8 Aliphatic TPH > C8 - C10 | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1.2,3-cd)pyrene Indeno(1.2,3-cd)pyrene Total PAHs (sum USEPA16) Aliphatic TPH >C5 - C6 Aliphatic TPH >C8 - C10 | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(gh,h)perylene Total PAHs (sum USEPA16) Aliphatic TPH > C5 - C6 Aliphatic TPH > C6 - C8 Aliphatic TPH > C12 - C12 Aliphatic TPH > C10 - C12 Aliphatic TPH > C10 - C12 Aliphatic TPH > C10 - C12 Aliphatic TPH > C12 - C16 | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)rene Indeno(1,2,3-cd)pyrene Indeno(1,2,3-cd)pyrene Indeno(1,2,3-cd)pyrene Total PAHs (sum USEPA16) Aliphatic TPH > C5 - C6 Aliphatic TPH > C6 - C8 Aliphatic TPH > C10 - C12 Aliphatic TPH > C10 - C14 Aliphatic TPH > C10 - C14 Aliphatic TPH > C10 - C16 Aliphatic TPH > C10 - C16 Aliphatic TPH > C16 - C21 | mg/kg | MCERTS | | <0.05 <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indenof1.2.3-cd)pyrene Dibenzo(a,h)anthracene Benzo(b,h)anthracene Benzo(b,h)anthracene Benzo(a)byrene Dibenzo(a,h)anthracene Benzo(g,h,h)perylene Total PAHs (sum USEPA16) Aliphatic TPH > C5 - C6 Aliphatic TPH > C6 - C8 Aliphatic TPH > C6 - C12 Aliphatic TPH > C10 - C12 Aliphatic TPH > C10 - C12 Aliphatic TPH > C10 - C21 Aliphatic TPH > C10 - C21 Aliphatic TPH > C16 - C35 | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <1.00 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene Total PAHs (sum USEPA16) Aliphatic TPH > C6 - C6 Aliphatic TPH > C6 - C8 Aliphatic TPH > C12 - C16 Aliphatic TPH > C12 - C16 Aliphatic TPH > C12 - C16 Aliphatic TPH > C16 - C21 Aliphatic TPH > C12 - C35 Aliphatic TPH > C21 - C35 | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <1.00 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(q,h,i)perylene Total PAHs (sum USEPA16) Aliphatic TPH >C5 - C6 Aliphatic TPH >C6 - C8 Aliphatic TPH >C10 - C12 Aliphatic TPH >C11 - C12 Aliphatic TPH >C12 - C16 Aliphatic TPH >C16 - C21 Aliphatic TPH >C16 - C21 Aliphatic TPH >C16 - C21 Aliphatic TPH >C21 - C35 Aliphatic TPH >C25 - C35 Aliphatic TPH >C5 - C7 | mg/kg | MCERTS | | <0.05 <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <1.11 <0.001 <0.001 <1.0 <2.0 <8.0 <8.0 <8.0 <4.0 <1.0 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Phenanthrene Fluoranthene Fluoranthene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(a)pyrene Indeno(1.2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,h)perylene Total PAHs (sum USEPA16) Aliphatic TPH > C5 - C6 Aliphatic TPH > C6 - C8 Aliphatic TPH > C6 - C8 Aliphatic TPH > C1 - C12 Aliphatic TPH > C1 - C12 Aliphatic TPH > C1 - C12 Aliphatic TPH > C1 - C35 Aliphatic TPH > C3 - C35 Aliphatic TPH C2 - C35 Aliphatic TPH C2 - C35 Aliphatic TPH C35 - C7 Aromatic TPH C5 - C7 | mg/kg | MCERTS | | <.0.05 <.0.05 <.0.05 0.2 <.0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.01 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)ryrene Indeno(1,2,3-cd)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene Total PAHs (sum USEPA16) Aliphatic TPH >C5 - C6 Aliphatic TPH >C8 - C10 Aliphatic TPH >C8 - C10 Aliphatic TPH >C10 - C12 Aliphatic TPH >C10 - C12 Aliphatic TPH >C10 - C12 Aliphatic TPH >C3 - C35 Aliphatic TPH >C5 - C35 Aliphatic TPH >C5 - C7 Aliphatic TPH >C5 - C7 Aromatic TPH >C7 - C8 Aromatic TPH >C8 - C10 | mg/kg | MCERTS | S | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(a)philoranthene Benzo(a)philoranthene Benzo(a)phyrene Indenor(1,23-cd)pyrene Dibenzo(a,h,)anthracene Benzo(a,h,)anthracene Benzo(a,h,)anthracene Benzo(a,h,)anthracene Benzo(a,h,)anthracene Benzo(a,h,)aphrylene Total PAHs (sum USEPA16) Aliphatic TPH >C5 - C6 Aliphatic TPH >C6 - C8 Aliphatic TPH >C6 - C8 Aliphatic TPH >C10 - C12 Aliphatic TPH >C10 - C12 Aliphatic TPH >C10 - C12 Aliphatic TPH >C10 - C35 Aliphatic TPH >C21 - C35 Aliphatic TPH >C35 - C7 Aromatic TPH >C5 - C7 Aromatic TPH >C8 - C7 Aromatic TPH >C8 - C10 Aromatic TPH >C8 - C7 Aromatic TPH >C8 - C7 Aromatic TPH >C8 - C7 Aromatic TPH >C8 - C10 | mg/kg | MCERTS | | <.005 <0.005 0.2 <0.005 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.005 <0.005 <0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(gh,n)perylene Total PAHs (sum USEPA16) Aliphatic TPH > C5 - C6 Aliphatic TPH > C6 - C8 Aliphatic TPH > C6 - C12 Aliphatic TPH > C12 - C16 Aliphatic TPH > C12 - C35 Aliphatic TPH > C3 - C35 Aliphatic TPH > C5 - C5 Aliphatic TPH > C5 - C5 Aliphatic TPH > C6 - C35 Aliphatic TPH > C7 - C35 Aliphatic TPH > C7 - C35 Aliphatic TPH > C7 - C8 Aromatic TPH > C8 - C10 Aromatic TPH > C10 - C12 Aromatic TPH > C10 - C16 | mg/kg | MCERTS | | <.005 <0.005 0.2 <0.005 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.005 <0.005 <0.005 <0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(q,h,i)perylene Total PAHs (sum USEPA16) Aliphatic TPH > C5 - C6 Aliphatic TPH > C6 - C8 Aliphatic TPH > C8 - C10 Aliphatic TPH > C9 - C10 Aliphatic TPH > C10 - C12 Aliphatic TPH > C10 - C12 Aliphatic TPH > C3 - C35 Aromatic TPH > C5 - C7 Aromatic TPH > C7 - C8 Aromatic TPH > C8 - C10 Aromatic TPH > C9 - C8 Aromatic TPH > C9 - C10 Aromatic TPH > C9 - C12 Aromatic TPH > C10 - C21 Aromatic TPH > C10 - C21 Aromatic TPH > C10 - C21 | mg/kg | MCERTS | | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indenof1.2,3-cd)pyrene Dibenzo(a,h)anthracene Dibenzo(a,h)anthracene Benzo(gh,h)perylene Total PAHs (sum USEPA16) Aliphatic TPH >C5 - C6 Aliphatic TPH >C6 - C8 Aliphatic TPH >C6 - C8 Aliphatic TPH >C6 - C12 Aliphatic TPH >C10 - C12 Aliphatic TPH >C10 - C12 Aliphatic TPH >C10 - C21 Aliphatic TPH >C10 - C35 Aliphatic TPH >C2 - C35 Aliphatic TPH >C2 - C35 Aliphatic TPH >C6 - C7 Aromatic TPH >C7 - C8 Aromatic TPH >C7 - C8 Aromatic TPH >C10 - C12 Aromatic TPH >C10 - C21 Aromatic TPH >C10 - C35 | mg/kg | MCERTS | | <.005 <0.005 0.2 <0.005 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.005 <0.005 <0.005 <0.005 <0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(q,h,i)perylene Total PAHs (sum USEPA16) Aliphatic TPH > C5 - C6 Aliphatic TPH > C6 - C8 Aliphatic TPH > C8 - C10 Aliphatic TPH > C9 - C10 Aliphatic TPH > C10 - C12 Aliphatic TPH > C10 - C12 Aliphatic TPH > C3 - C35 Aromatic TPH > C5 - C7 Aromatic TPH > C7 - C8 Aromatic TPH > C8 - C10 Aromatic TPH > C9 - C8 Aromatic TPH > C9 - C10 Aromatic TPH > C9 - C12 Aromatic TPH > C10 - C21 Aromatic TPH > C10 - C21 Aromatic TPH > C10 - C21 | mg/kg | MCERTS | | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene Total PAHs (sum USEPA16) Aliphatic TPH >C5 - C6 Aliphatic TPH >C6 - C8 Aliphatic TPH >C8 - C10 Aliphatic TPH >C8 - C10 Aliphatic TPH >C10 - C12 Aliphatic TPH >C10 - C12 Aliphatic TPH >C5 - C7 Aromatic TPH >C7 - C8 Aromatic TPH >C7 - C8 Aromatic TPH >C1 - C12 Aromatic TPH >C1 - C14 Aromatic TPH >C1 - C15 Aromatic TPH >C1 - C16 Aromatic TPH >C1 - C21 Aromatic TPH >C1 - C35 | mg/kg | MCERTS | | <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.00 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(a)pyrene Indenof1,2,3-cd)pyrene Dibenzo(a,h)anthracene Dibenzo(a,h)anthracene Benzo(g,h,h)perylene Total PAHs (sum USEPA16) Aliphatic TPH > C5 - C6 Aliphatic TPH > C6 - C8 Aliphatic TPH > C6 - C8 Aliphatic TPH > C10 - C12 Aliphatic TPH > C10 - C12 Aliphatic TPH > C10 - C12 Aliphatic TPH > C3 - C35 Aliphatic TPH > C3 - C35 Aliphatic TPH > C3 - C35 Aromatic TPH > C7 - C8 Aromatic TPH > C7 - C8 Aromatic TPH > C7 - C8 Aromatic TPH > C10 - C12 Aromatic TPH > C10 - C35 Aromatic TPH > C10 - C35 Aromatic TPH > C10 - C35 Aromatic TPH > C21 - C35 | mg/kg | MCERTS | | <.0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.005 <0.005 <0.005 <0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(a)apyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(gh,h)perylene Total PAHs (sum USEPA16) Aliphatic TPH >C6 - C6 Aliphatic TPH >C8 - C8 Aliphatic TPH >C8 - C10 Aliphatic TPH >C12 - C16 Aliphatic TPH >C12 - C16 Aliphatic TPH >C16 - C21 Aliphatic TPH >C7 - C8 Aromatic TPH >C7 - C8 Aromatic TPH >C10 - C12 Aromatic TPH >C10 - C12 Aromatic TPH >C10 - C12 Aromatic TPH >C10 - C13 Aromatic TPH >C10 - C14 Aromatic TPH >C10 - C14 Aromatic TPH >C10 - C16 Aromatic TPH >C16 - C21 Aromatic TPH >C16 - C35) Benzene Toluene | mg/kg | MCERTS | | <.0.05 <.0.05 <.0.05 0.2 <.0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(a)priene Benzo(a)fluoranthene Benzo(a)priene Indenof1.23-cdpyrene Dibenzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h,h)anthracene Benzo(a,h)anthracene | mg/kg | MCERTS | | <.0.05 <0.05 <0.05 <0.05 0.2 <0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 |
| Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(a)apyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(gh,h)perylene Total PAHs (sum USEPA16) Aliphatic TPH >C6 - C6 Aliphatic TPH >C8 - C8 Aliphatic TPH >C8 - C10 Aliphatic TPH >C12 - C16 Aliphatic TPH >C12 - C16 Aliphatic TPH >C16 - C21 Aliphatic TPH >C7 - C8 Aromatic TPH >C7 - C8 Aromatic TPH >C10 - C12 Aromatic TPH >C10 - C12 Aromatic TPH >C10 - C12 Aromatic TPH >C10 - C13 Aromatic TPH >C10 - C14 Aromatic TPH >C10 - C14 Aromatic TPH >C10 - C16 Aromatic TPH >C16 - C21 Aromatic TPH >C16 - C35) Benzene Toluene | mg/kg | MCERTS | | <.0.05 <.0.05 <.0.05 0.2 <.0.05 0.47 0.46 0.24 0.19 0.21 0.14 0.2 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.05 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 <.0.001 |

CL = CLAY LOAM

Visual Examination
The sample was described as a very dark greyish brown (Munsell Colour 10YR 3/2), dry, friable, non-calcareous CLAY LOAM with a weakly developed, fine to medium granular structure. The sample was slightly stony and contained a low proportion of organic fines and occasional woody fragments. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

mtimble-Wilde

Tilly Kimble-Wilde BSc MSc Graduate Soil Scientist

Results of analysis should be read in conjunction with the report they were issued with

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