



Envirolab Services Pty Ltd
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SAMPLE RECEIPT ADVICE

Client Details

| | |
|------------------|----------------------|
| Client | Landserv Pty Limited |
| Attention | Angus Robinson |

Sample Login Details

| | |
|---|-------------------------|
| Your reference | M0790 Wattie Watson ESA |
| Envirolab Reference | 22269 |
| Date Sample Received | 26/08/2020 |
| Date Instructions Received | 26/08/2020 |
| Date Results Expected to be Reported | 02/09/2020 |

Sample Condition

| | |
|---|----------|
| Samples received in appropriate condition for analysis | Yes |
| No. of Samples Provided | 3 Soil |
| Turnaround Time Requested | Standard |
| Temperature on Receipt (°C) | 12.6 |
| Cooling Method | Ice Pack |
| Sampling Date Provided | YES |

Comments

Nil

Please direct any queries to:

Pamela Adams

Phone: 03 9763 2500

Fax: 03 9763 2633

Email: padams@envirolab.com.au

Chris De Luca

Phone: 03 9763 2500

Fax: 03 9763 2633

Email: cdeluca@envirolab.com.au

Analysis Underway, details on the following page:



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| Sample ID | VTRH(C6-C10)/BTEXN in Soil | TRH Soil C10-C40 NEPM | PAHs in Soil | Acid Extractable metals in soil |
|---------------|----------------------------|-----------------------|--------------|---------------------------------|
| BH601/0.4-0.5 | ✓ | ✓ | ✓ | ✓ |
| BH603/0.6-0.7 | ✓ | ✓ | ✓ | ✓ |
| BH625/0.4-0.5 | ✓ | ✓ | ✓ | ✓ |

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

CERTIFICATE OF ANALYSIS 22269

Client Details

| | |
|------------------|--|
| Client | Landserv Pty Limited |
| Attention | Angus Robinson |
| Address | 293A Bay st, Port Melbourne, VIC, 3207 |

Sample Details

| | |
|---|---------------------------------------|
| Your Reference | <u>M0790 Wattie Watson ESA</u> |
| Number of Samples | 3 Soil |
| Date samples received | 26/08/2020 |
| Date completed instructions received | 26/08/2020 |

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

| | |
|---|------------|
| Date results requested by | 01/09/2020 |
| Date of Issue | 01/09/2020 |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full. | |
| Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * | |

Results Approved By

Chris De Luca, Operations Manager

Authorised By

P. Adams

Pamela Adams, Laboratory Manager

| vTRH(C6-C10)/BTEXN in Soil | | | | |
|---|-------|---------------|---------------|---------------|
| Our Reference | | 22269-1 | 22269-2 | 22269-3 |
| Your Reference | UNITS | BH601/0.4-0.5 | BH603/0.6-0.7 | BH625/0.4-0.5 |
| Date Sampled | | 24/08/2020 | 24/08/2020 | 24/08/2020 |
| Type of sample | | Soil | Soil | Soil |
| Date extracted | - | 28/08/2020 | 28/08/2020 | 28/08/2020 |
| Date analysed | - | 29/08/2020 | 29/08/2020 | 29/08/2020 |
| vTRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 |
| vTRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ less BTEX (F1) | mg/kg | <25 | <25 | <25 |
| Benzene | mg/kg | <0.2 | <0.2 | <0.2 |
| Toluene | mg/kg | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | mg/kg | <1 | <1 | <1 |
| m+p-xylene | mg/kg | <2 | <2 | <2 |
| o-Xylene | mg/kg | <1 | <1 | <1 |
| Naphthalene | mg/kg | <1 | <1 | <1 |
| Total BTEX | mg/kg | <1 | <1 | <1 |
| Total +ve Xylenes | mg/kg | <1 | <1 | <1 |
| Surrogate aaa-Trifluorotoluene | % | 85 | 86 | 88 |

| TRH Soil C10-C40 NEPM | | | | |
|--|-------|---------------|---------------|---------------|
| Our Reference | | 22269-1 | 22269-2 | 22269-3 |
| Your Reference | UNITS | BH601/0.4-0.5 | BH603/0.6-0.7 | BH625/0.4-0.5 |
| Date Sampled | | 24/08/2020 | 24/08/2020 | 24/08/2020 |
| Type of sample | | Soil | Soil | Soil |
| Date extracted | - | 28/08/2020 | 28/08/2020 | 28/08/2020 |
| Date analysed | - | 29/08/2020 | 29/08/2020 | 29/08/2020 |
| TRH C ₁₀ - C ₁₄ | mg/kg | <50 | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | mg/kg | 240 | 3,000 | 990 |
| TRH C ₂₉ - C ₃₆ | mg/kg | 470 | 3,000 | 1,100 |
| Total +ve TRH (C10-C36) | mg/kg | 710 | 6,000 | 2,100 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | <50 | 80 | <50 |
| TRH >C ₁₀ - C ₁₆ less Naphthalene (F2) | mg/kg | <50 | 80 | <50 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 540 | 5,100 | 1,700 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 370 | 1,700 | 700 |
| Total +ve TRH (>C10-C40) | mg/kg | 910 | 6,800 | 2,400 |
| Surrogate o-Terphenyl | % | 82 | 86 | 83 |

| PAHs in Soil | | | | |
|---|-------|---------------|---------------|---------------|
| Our Reference | | 22269-1 | 22269-2 | 22269-3 |
| Your Reference | UNITS | BH601/0.4-0.5 | BH603/0.6-0.7 | BH625/0.4-0.5 |
| Date Sampled | | 24/08/2020 | 24/08/2020 | 24/08/2020 |
| Type of sample | | Soil | Soil | Soil |
| Date extracted | - | 28/08/2020 | 28/08/2020 | 28/08/2020 |
| Date analysed | - | 29/08/2020 | 29/08/2020 | 29/08/2020 |
| Naphthalene | mg/kg | <1 | <1 | <1 |
| Acenaphthylene | mg/kg | <1 | 1.3 | 2.0 |
| Acenaphthene | mg/kg | <1 | <1 | <1 |
| Fluorene | mg/kg | <1 | <1 | <1 |
| Phenanthrene | mg/kg | <1 | 21 | 11 |
| Anthracene | mg/kg | <1 | 6.3 | 3.5 |
| Fluoranthene | mg/kg | 2.5 | 56 | 31 |
| Pyrene | mg/kg | 2.4 | 55 | 33 |
| Benzo(a)anthracene | mg/kg | 1.5 | 29 | 18 |
| Chrysene | mg/kg | 1.8 | 33 | 19 |
| Benzo(b,j&k)fluoranthene | mg/kg | 3.1 | 55 | 32 |
| Benzo(a)pyrene | mg/kg | 1.7 | 34 | 19 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 1.6 | 25 | 15 |
| Dibenzo(a,h)anthracene | mg/kg | <1 | 7.8 | 4.0 |
| Benzo(g,h,i)perylene | mg/kg | 2.6 | 31 | 19 |
| Total +ve PAH's | mg/kg | 17 | 350 | 210 |
| Benzo(a)pyrene TEQ calc (Zero) | mg/kg | <5 | 54 | 30 |
| Benzo(a)pyrene TEQ calc (Half) | mg/kg | <5 | 54 | 30 |
| Benzo(a)pyrene TEQ calc (PQL) | mg/kg | <5 | 54 | 30 |
| Surrogate <i>p</i> -Terphenyl-d ₁₄ | % | 116 | 114 | 118 |

| Acid Extractable metals in soil | | | | |
|---------------------------------|-------|---------------|---------------|---------------|
| Our Reference | | 22269-1 | 22269-2 | 22269-3 |
| Your Reference | UNITS | BH601/0.4-0.5 | BH603/0.6-0.7 | BH625/0.4-0.5 |
| Date Sampled | | 24/08/2020 | 24/08/2020 | 24/08/2020 |
| Type of sample | | Soil | Soil | Soil |
| Date digested | - | 29/08/2020 | 29/08/2020 | 29/08/2020 |
| Date analysed | - | 29/08/2020 | 29/08/2020 | 29/08/2020 |
| Arsenic | mg/kg | 10 | 11 | 14 |
| Cadmium | mg/kg | 1 | <0.4 | 0.4 |
| Chromium | mg/kg | 19 | 7 | 20 |
| Copper | mg/kg | 110 | 18 | 27 |
| Lead | mg/kg | 610 | 56 | 150 |
| Mercury | mg/kg | 0.5 | <0.1 | 0.4 |
| Nickel | mg/kg | 44 | 16 | 22 |
| Zinc | mg/kg | 510 | 120 | 340 |

Client Reference: M0790 Wattie Watson ESA

| Moisture | | | | |
|----------------|-------|---------------|---------------|---------------|
| Our Reference | | 22269-1 | 22269-2 | 22269-3 |
| Your Reference | UNITS | BH601/0.4-0.5 | BH603/0.6-0.7 | BH625/0.4-0.5 |
| Date Sampled | | 24/08/2020 | 24/08/2020 | 24/08/2020 |
| Type of sample | | Soil | Soil | Soil |
| Date prepared | - | 28/08/2020 | 28/08/2020 | 28/08/2020 |
| Date analysed | - | 29/08/2020 | 29/08/2020 | 29/08/2020 |
| Moisture | % | 17 | 5.6 | 18 |

| Method ID | Methodology Summary |
|---------------------------|---|
| Inorg-008 | Moisture content determined by heating at 105 deg C for a minimum of 12 hours. |
| Metals-020 ICP-AES | Determination of various metals by ICP-AES. |
| Metals-021 CV-AAS | Determination of Mercury by Cold Vapour AAS. |
| Org-020 | <p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.</p> <p>Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).</p> |
| Org-022 | <p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.</p> <p>For soil results:-</p> <ol style="list-style-type: none"> 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. <p>Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.</p> |
| Org-023 | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. |
| Org-023 | <p>Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.</p> <p>Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.</p> |

Client Reference: M0790 Wattie Watson ESA

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|---|-------|-----|---------|------------|-----------|------|------|------------------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date extracted | - | | | 28/08/2020 | [NT] | [NT] | [NT] | [NT] | 28/08/2020 | [NT] |
| Date analysed | - | | | 29/08/2020 | [NT] | [NT] | [NT] | [NT] | 29/08/2020 | [NT] |
| vTRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | <25 | [NT] | [NT] | [NT] | [NT] | 94 | [NT] |
| vTRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | <25 | [NT] | [NT] | [NT] | [NT] | 94 | [NT] |
| Benzene | mg/kg | 0.2 | Org-023 | <0.2 | [NT] | [NT] | [NT] | [NT] | 81 | [NT] |
| Toluene | mg/kg | 0.5 | Org-023 | <0.5 | [NT] | [NT] | [NT] | [NT] | 87 | [NT] |
| Ethylbenzene | mg/kg | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | 96 | [NT] |
| m+p-xylene | mg/kg | 2 | Org-023 | <2 | [NT] | [NT] | [NT] | [NT] | 102 | [NT] |
| o-Xylene | mg/kg | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | 97 | [NT] |
| Naphthalene | mg/kg | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | 101 | [NT] | [NT] | [NT] | [NT] | 90 | [NT] |

Client Reference: M0790 Wattie Watson ESA

| QUALITY CONTROL: TRH Soil C10-C40 NEPM | | | | | Duplicate | | | Spike Recovery % | | |
|--|-------|-----|---------|------------|-----------|------|------|------------------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date extracted | - | | | 28/08/2020 | [NT] | [NT] | [NT] | [NT] | 28/08/2020 | [NT] |
| Date analysed | - | | | 29/08/2020 | [NT] | [NT] | [NT] | [NT] | 29/08/2020 | [NT] |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | <50 | [NT] | [NT] | [NT] | [NT] | 83 | [NT] |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | <100 | [NT] | [NT] | [NT] | [NT] | 95 | [NT] |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | <100 | [NT] | [NT] | [NT] | [NT] | 93 | [NT] |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | <50 | [NT] | [NT] | [NT] | [NT] | 83 | [NT] |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | <100 | [NT] | [NT] | [NT] | [NT] | 95 | [NT] |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | <100 | [NT] | [NT] | [NT] | [NT] | 93 | [NT] |
| Surrogate o-Terphenyl | % | | Org-020 | 83 | [NT] | [NT] | [NT] | [NT] | 88 | [NT] |

Client Reference: M0790 Wattie Watson ESA

| QUALITY CONTROL: PAHs in Soil | | | | | Duplicate | | | Spike Recovery % | | |
|---------------------------------------|-------|------|---------|------------|-----------|------|------|------------------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date extracted | - | | | 28/08/2020 | [NT] | [NT] | [NT] | [NT] | 28/08/2020 | [NT] |
| Date analysed | - | | | 29/08/2020 | [NT] | [NT] | [NT] | [NT] | 29/08/2020 | [NT] |
| Naphthalene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | 96 | [NT] |
| Acenaphthylene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | 88 | [NT] |
| Acenaphthene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Fluorene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | 102 | [NT] |
| Phenanthrene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | 106 | [NT] |
| Anthracene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Fluoranthene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | 112 | [NT] |
| Pyrene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | 102 | [NT] |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Chrysene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | 118 | [NT] |
| Benzo(b,j&k)fluoranthene | mg/kg | 0.2 | Org-022 | <0.2 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022 | <0.05 | [NT] | [NT] | [NT] | [NT] | 90 | [NT] |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Surrogate p-Terphenyl-d ₁₄ | % | | Org-022 | 116 | [NT] | [NT] | [NT] | [NT] | 122 | [NT] |

Client Reference: M0790 Wattie Watson ESA

| QUALITY CONTROL: Acid Extractable metals in soil | | | | Duplicate | | | | Spike Recovery % | | |
|--|-------|-----|--------------------|------------|------|------|------|------------------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date digested | - | | | 29/08/2020 | [NT] | [NT] | [NT] | [NT] | 29/08/2020 | [NT] |
| Date analysed | - | | | 29/08/2020 | [NT] | [NT] | [NT] | [NT] | 29/08/2020 | [NT] |
| Arsenic | mg/kg | 4 | Metals-020 ICP-AES | <4 | [NT] | [NT] | [NT] | [NT] | 106 | [NT] |
| Cadmium | mg/kg | 0.4 | Metals-020 ICP-AES | <0.4 | [NT] | [NT] | [NT] | [NT] | 105 | [NT] |
| Chromium | mg/kg | 1 | Metals-020 ICP-AES | <1 | [NT] | [NT] | [NT] | [NT] | 100 | [NT] |
| Copper | mg/kg | 1 | Metals-020 ICP-AES | <1 | [NT] | [NT] | [NT] | [NT] | 100 | [NT] |
| Lead | mg/kg | 1 | Metals-020 ICP-AES | <1 | [NT] | [NT] | [NT] | [NT] | 95 | [NT] |
| Mercury | mg/kg | 0.1 | Metals-021 CV-AAS | <0.1 | [NT] | [NT] | [NT] | [NT] | 104 | [NT] |
| Nickel | mg/kg | 1 | Metals-020 ICP-AES | <1 | [NT] | [NT] | [NT] | [NT] | 99 | [NT] |
| Zinc | mg/kg | 1 | Metals-020 ICP-AES | <1 | [NT] | [NT] | [NT] | [NT] | 100 | [NT] |

Result Definitions

| | |
|-------------|---|
| NT | Not tested |
| NA | Test not required |
| INS | Insufficient sample for this test |
| PQL | Practical Quantitation Limit |
| < | Less than |
| > | Greater than |
| RPD | Relative Percent Difference |
| LCS | Laboratory Control Sample |
| NS | Not specified |
| NEPM | National Environmental Protection Measure |
| NR | Not Reported |

Quality Control Definitions

| | |
|--|--|
| Blank | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples. |
| Duplicate | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable. |
| Matrix Spike | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| LCS (Laboratory Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample. |
| Surrogate Spike | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples. |
| Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011. | |
| The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016. | |
| Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2 | |

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

PAH: PQL has been raised due to the high concentration of analytes in the sample/s, resulting in the sample/s requiring dilution.

#20-41232.

From: Angus Robinson [mailto:angus.robinson@landserv.com.au]
Sent: Tuesday, 1 September 2020 12:24 PM
To: Tuyen Nguyen <Tuyen.Nguyen@alsglobal.com>
Cc: Ryan Edwards <ryan.edwards@landserv.com.au>; Emily McAsey <emily.mcasey@landserv.com.au>
Subject: [EXTERNAL] - RE: Results for M0790 - 20-40358

CAUTION: This email originated from outside of ALS. Do not click links or open attachments unless you recognize the sender and are sure content is relevant to you.

Hi Tuyen ,

Please can we select the following analysis for M0790 – Wattie Watson ESA

ASLP (Acetate) on a standard TAT

- BH18/0.0-0.05 - Benzo(a)pyrene - 6678646
- BH02/0.15-0.25 - Benzo(a)pyrene - 6678629
- BH05/0.4-0.5 - Metals (8) - 6678590
- BH01/0.4-0.5 - Metals (8) - 6678574
- BH16/0.4-0.5 - Mercury - 6678640
- BH14/0.4-0.5 - Benzo(a)pyrene - 6678626
- BH07/0.4-0.5 - Benzo(a)pyrene - 6678598
- BH01/0.6-0.7 Metals (8) - 6678576
- BH19/0.6-0.7 - Arsenic and Zinc - 6678653
- BH23/0.6-0.7 - Lead and Zinc - 6678671
- BH18/0.6-0.7 - Benzo(a)pyrene - 6678649
- BH03/0.6-0.7 - Benzo(a)pyrene - 6678582
- BH02/1.4-1.5 - Arsenic - 6678633
- BH01 1.4-1.5 - Benzo(a)pyrene - 6678578

*sampled: 24/08.
Rec: 25/08.*

Please can we select the following sample for CEC and pH

- BH12/0.15-0.25 - 6678617

Please let me know if you have any questions or concerns.

Thankyou.



- B Corporation Certified
- ISO 9001 QMS Certified
- MAV Procurement Certified

Angus Robinson

Environmental Scientist (BHS, GradDipEnvHlth)

Landserv Pty Ltd

293A Bay Street, Port Melbourne 3207

T. 03 9646 0833 M. 0431 177 498

angus.robinson@landserv.com.au



Sample Receipt Advice (SRA)

| | |
|---|---|
| Client: Landserv Pty Ltd 293A Bay Street PORT MELBOURNE VIC 3207 | Client Contact: Angus Robinson Phone : 9646 0833 Mobile : 0431 177 498 Fax : Email : angus.robinson@landserv.com.au |
|---|---|

Batch Summary: **ALS Water Batch No :** **20-41232**

Date Received : 1/09/2020 2:12:20PM
Scheduled Reporting Date : 08-Sep-2020
Client Job Ref : M0790 Wattie Watson ESA
No. of Sample(s) : 15
Program : Misc Analysis
Purchase Order : n/a
NATA report : Reqd.
Lab. Contact :

Tuyen Nguyen
Phone: (03) 8756 8116

Tuyen.Nguyen@alsglobal.com

Please direct any enquiries you have regarding this project to the above ALS Water contact.

Delivery Details:

COC Received :

YES

Sample Temperature on Receipt.

3

C^o

Samples preserved where applicable #

Comments:

Disclaimer : This document contains privileged and confidential information intended only for the use of the addressee. If you are not the addressee, you are hereby notified that you must not disseminate, copy or take action of its contents. If you have received this document in error, please notify the ALS Water immediately.

Comparisons are made against pretreatment/preservation as per AS, VICEPA, APHA, USEPA standards
Sample disposal - Aqueous (14 days), Solid (60 days) from date of completion of work order

| | |
|---|--|
| Client: Landserv Pty Ltd 293A Bay Street PORT MELBOURNE VIC 3207 | Client Contact: Angus Robinson Phone : 9646 0833 Mobile : 0431 177 498 Fax : Email : angus.robinson@landserv.com.au |
|---|--|

Summary of Sample and Received Analysis:

| ALS Sample | Sample Name | Date | Test Count |
|------------|----------------|------------|------------|
| 6685790 | BH18/0.0-0.05 | 24/08/2020 | 2 |
| 6685791 | BH02/0.15-0.25 | 24/08/2020 | 2 |
| 6685792 | BH05/0.4-0.5 | 24/08/2020 | 2 |
| 6685793 | BH01/0.4-0.5 | 24/08/2020 | 2 |
| 6685794 | BH16/0.4-0.5 | 24/08/2020 | 2 |
| 6685795 | BH14/0.4-0.5 | 24/08/2020 | 2 |
| 6685796 | BH07/0.4-0.5 | 24/08/2020 | 2 |
| 6685797 | BH01/0.6-0.7 | 24/08/2020 | 2 |
| 6685798 | BH19/0.6-0.7 | 24/08/2020 | 2 |
| 6685799 | BH23/0.6-0.7 | 24/08/2020 | 2 |
| 6685800 | BH18/0.6-0.7 | 24/08/2020 | 2 |
| 6685801 | BH03/0.6-0.7 | 24/08/2020 | 2 |
| 6685802 | BH02/1.4-1.5 | 24/08/2020 | 2 |
| 6685803 | BH01/1.4-1.5 | 24/08/2020 | 2 |
| 6685804 | BH12/0.15-0.25 | 24/08/2020 | 3 |

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Comparisons are made against pretreatment/preresevation as per AS,VICEPA,APHA,USEPA standards
Sample disposal - Aqueous (14 days), Solid (60 days) from date of completio of work order



CERTIFICATE OF ANALYSIS

Batch No: 20-41232
Final Report 844960

Client: Landserv Pty Ltd
Contact: Angus Robinson
Address: 293A Bay Street
 PORT MELBOURNE VIC 3207
 AUSTRALIA

Client Program Ref: M0790 Wattie Watson ESA
ALS Program Ref: LANDSERV
PO No: Not Available

Page Page 1 of 4
Laboratory Scoresby Laboratory
Address Caribbean Business Park, 22 Dalmore Drive, Scoresby, VIC 3179
Phone 03 8756 8000
Fax 03 9763 1862
Contact: Tuyen Nguyen
 Client Manager
 Tuyen.Nguyen@alsglobal.com

Date Sampled: 24-Aug-2020
Date Samples Received: 01-Sep-2020
Date Issued: 04-Sep-2020

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service.

| Analysis | Method | Laboratory | Analysis | Method | Laboratory | Analysis | Method | Laboratory |
|--------------------|--------|------------|----------------------|-------------------|------------|----------|--------|------------|
| ASLP(Acetate) Prep | WN33SC | Scoresby | ASLP(Acet.) PAH | WP075B, WN33SC | Scoresby | | | |
| CEC | WD003 | Scoresby | MS ASLP(Acet) Metals | WG020A; WN33SC | Scoresby | | | |
| pH | EA002 | Scoresby | | | | | | |

Analysis conducted outside holding time due to late arrival or delayed extraction/analysis. Based on APHA, VICEPA, AS & NEPM
 Late Sample Arrival - pH[6685804]

100 grams of sample was taken for ASLP determinations unless a lesser amount was submitted to this laboratory.



Measurement Uncertainties values for your compliance results are available at this link

Signatories

| Name | Title | Name | Title |
|-----------------|-----------------------|-------------|--------------------------------|
| Chatura Perera | Team Leader Nutrients | Hao Zhang | Team Leader Organics |
| John Earl | Team Leader Metals | John Levvey | Principal Trace Metals Chemist |
| Mario Solorzano | Analyst | | |



Soil Analysis

| Sample | Sampled Date | Your Ref | Analysis: | pH | CEC |
|---------|--------------|----------------|-------------|------------|-----|
| | | | | Component: | CEC |
| | | | Units: | meq/100g | |
| | | | Sample Type | | |
| 6685804 | 24-08-20 | BH12/0.15-0.25 | SOIL | 7.6 | 7.7 |

Metals- ASLP (Acetate Buffer)

| Sample | Sampled Date | Your Ref | Analysis: | MS ASLP(Acet) Metals | |
|---------|--------------|--------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------|
| | | | | Component: | ASLP-Arsenic mg/L | ASLP-Cadmium mg/L | ASLP-Chromium mg/L | ASLP-Copper mg/L | ASLP-Lead mg/L | ASLP-Mercury mg/L | ASLP-Nickel mg/L |
| | | | Units: | | | | | | | | |
| | | | Sample Type | | | | | | | | |
| 6685792 | 24-08-20 | BH05/0.4-0.5 | SOIL | <0.01 | 0.008 | <0.01 | 0.19 | 0.67 | <0.001 | 0.04 | 5.6 |
| 6685793 | 24-08-20 | BH01/0.4-0.5 | SOIL | 0.02 | 0.009 | <0.01 | 0.08 | 0.45 | <0.001 | 0.02 | 6.3 |
| 6685794 | 24-08-20 | BH16/0.4-0.5 | SOIL | | | | | | <0.001 | | |
| 6685797 | 24-08-20 | BH01/0.6-0.7 | SOIL | 0.02 | 0.006 | 0.09 | 0.13 | 0.33 | <0.001 | 0.02 | 3.5 |
| 6685798 | 24-08-20 | BH19/0.6-0.7 | SOIL | <0.01 | | | | | | | 0.25 |
| 6685799 | 24-08-20 | BH23/0.6-0.7 | SOIL | | | | | 0.72 | | | 5.8 |
| 6685802 | 24-08-20 | BH02/1.4-1.5 | SOIL | <0.01 | | | | | | | |

ASLP (Acetate Buffer)-PAH

| Sample | Sampled Date | Your Ref | Analysis: | ASLP(Acet.) PAH |
|---------|--------------|----------------|-------------|---------------------|
| | | | | Component: |
| | | | Units: | Benzo(a)pyrene mg/L |
| | | | Sample Type | |
| 6685790 | 24-08-20 | BH18/0.0-0.05 | SOIL | <0.001 |
| 6685791 | 24-08-20 | BH02/0.15-0.25 | SOIL | <0.001 |
| 6685795 | 24-08-20 | BH14/0.4-0.5 | SOIL | <0.001 |
| 6685796 | 24-08-20 | BH07/0.4-0.5 | SOIL | <0.001 |
| 6685800 | 24-08-20 | BH18/0.6-0.7 | SOIL | 0.002 |
| 6685801 | 24-08-20 | BH03/0.6-0.7 | SOIL | 0.002 |
| 6685803 | 24-08-20 | BH01/1.4-1.5 | SOIL | 0.002 |

Samples not collected by ALS and are tested as received.

A blank space indicates no test performed. Soil microbiological testing was commenced within 4 days from the day collected unless otherwise stated.

Water microbiological testing was commenced on the day received and within 24 hours of sampling unless otherwise stated.

MM524: Plate count results <10 per mL and >300 per mL are deemed as approximate.

MM526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Calculated results are based on raw data.



Acetate Leachate Preparation

| Sample | Sampled Date | Your Ref | Analysis: Component: Units: Sample Type | ASLP(Acetate) Prep | ASLP(Acetate) Prep |
|---------|--------------|----------------|--|----------------------------|-------------------------------|
| | | | | Leach Fluid pH pH units | pH (post rolling) pH units |
| 6685790 | 24-08-20 | BH18/0.0-0.05 | SOIL | 5.0 | 4.8 |
| 6685791 | 24-08-20 | BH02/0.15-0.25 | SOIL | 5.0 | 4.9 |
| 6685792 | 24-08-20 | BH05/0.4-0.5 | SOIL | 5.0 | 5.0 |
| 6685793 | 24-08-20 | BH01/0.4-0.5 | SOIL | 5.0 | 5.0 |
| 6685794 | 24-08-20 | BH16/0.4-0.5 | SOIL | 5.0 | 4.8 |
| 6685795 | 24-08-20 | BH14/0.4-0.5 | SOIL | 5.0 | 4.8 |
| 6685796 | 24-08-20 | BH07/0.4-0.5 | SOIL | 5.0 | 4.8 |
| 6685797 | 24-08-20 | BH01/0.6-0.7 | SOIL | 5.0 | 5.0 |
| 6685798 | 24-08-20 | BH19/0.6-0.7 | SOIL | 5.0 | 4.8 |
| 6685799 | 24-08-20 | BH23/0.6-0.7 | SOIL | 5.0 | 4.9 |
| 6685800 | 24-08-20 | BH18/0.6-0.7 | SOIL | 5.0 | 4.9 |
| 6685801 | 24-08-20 | BH03/0.6-0.7 | SOIL | 5.0 | 4.8 |
| 6685802 | 24-08-20 | BH02/1.4-1.5 | SOIL | 5.0 | 4.8 |
| 6685803 | 24-08-20 | BH01/1.4-1.5 | SOIL | 5.0 | 4.9 |

Samples not collected by ALS and are tested as received.

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Water microbiological testing was commenced on the day received and within 24 hours of sampling unless otherwise stated.

MM524: Plate count results <10 per mL and >300 per mL are deemed as approximate.

MM526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Calculated results are based on raw data.



Quality Control

| ASLP (Acetate Buffer)-PAH | | | ASLP(Acet.) PAH |
|---------------------------|------------------|-------------------|-----------------|
| | | | Benzo(a)pyrene |
| 6685791 | DUPLICATE | Sample Value | <0.001 |
| 6685791 | DUPLICATE | Duplicate Value | <0.001 |
| 6685791 | DUPLICATE | % RPD | 0 |
| 6685795 | SPIKE | Sample Value | <0.001 |
| 6685795 | SPIKE | Expected Value | 0.033 |
| 6685795 | SPIKE | % Recovery | 116 |
| 6688788 | BLANK | Value | <0.001 |

| Metals- ASLP (Acetate Buffer) | | | MS ASLP(Acet) Metals |
|-------------------------------|------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | | | ASLP-Arsenic | ASLP-Cadmium | ASLP-Chromium | ASLP-Copper | ASLP-Lead | ASLP-Mercury | ASLP-Nickel |
| 6687959 | BLANK | Value | <0.01 | <0.002 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 6684099 | SPIKE | Sample Value | <0.01 | <0.002 | <0.01 | <0.01 | <0.01 | <0.001 | <0.01 |
| 6684099 | SPIKE | Expected Value | 0.40 | 0.40 | 0.40 | 0.41 | 0.40 | 0.0021 | 0.41 |
| 6684099 | SPIKE | % Recovery | 111 | 104 | 98.1 | 93.0 | 96.5 | 83.9 | 94.1 |
| 6685802 | DUPLICATE | Sample Value | <0.01 | <0.002 | 0.01 | <0.01 | <0.01 | <0.001 | <0.01 |
| 6685802 | DUPLICATE | Duplicate Value | <0.01 | <0.002 | 0.01 | <0.01 | <0.01 | <0.001 | <0.01 |
| 6685802 | DUPLICATE | % RPD | 0 | 0 | 8.2 | 0 | 0 | 0 | 1.2 |

| Soil Analysis | | | pH | CEC |
|----------------|------------------|-----------------|------------|------------|
| | | | pH | CEC |
| 6685135 | DUPLICATE | Sample Value | 5.9 | |
| 6685135 | DUPLICATE | Duplicate Value | 5.9 | |
| 6685135 | DUPLICATE | % RPD | 0.0 | |
| 6685804 | DUPLICATE | Sample Value | | 7.7 |
| 6685804 | DUPLICATE | Duplicate Value | | 7.5 |
| 6685804 | DUPLICATE | % RPD | | 3.3 |

Samples not collected by ALS and are tested as received.

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Water microbiological testing was commenced on the day received and within 24 hours of sampling unless otherwise stated.

MM524: Plate count results <10 per mL and >300 per mL are deemed as approximate.

MM526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Calculated results are based on raw data.

Greencap VIC P/L
Level 1, 677 High St
Kew East
VIC 3102



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Attention: **Luke Richards**

Report **745197-S**

Project name

Project ID **J169564**

Received Date **Sep 18, 2020**

| Client Sample ID | | | QC01 | BH01_0.1 | BH01_1.0 | BH02_0.1 |
|---|-----|----------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | M20-Se33596 | M20-Se33600 | M20-Se33601 | M20-Se33602 |
| Date Sampled | | | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 16 | 38 | 35 | 14 |
| Barium | 10 | mg/kg | - | - | 37 | - |
| Beryllium | 2 | mg/kg | - | - | < 2 | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 20 | 28 | 24 | 15 |
| Cobalt | 5 | mg/kg | - | - | 6.0 | - |
| Copper | 5 | mg/kg | 7.1 | 7.1 | 6.0 | 15 |
| Lead | 5 | mg/kg | 47 | 52 | 33 | 91 |
| Manganese | 5 | mg/kg | - | - | 56 | - |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | 0.3 |
| Molybdenum | 5 | mg/kg | < 5 | < 5 | < 5 | < 5 |
| Nickel | 5 | mg/kg | 11 | 13 | 11 | 18 |
| Selenium | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Silver | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Tin | 10 | mg/kg | < 10 | < 10 | < 10 | < 10 |
| Zinc | 5 | mg/kg | 56 | 59 | 40 | 100 |
| % Moisture | | | | | | |
| % Moisture | 1 | % | 12 | 15 | 14 | 8.3 |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | | | | | | |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | 0.1 | pH Units | - | 7.0 | - | 6.8 |
| Chromium (hexavalent) | | | | | | |
| Chromium (hexavalent) | 1 | mg/kg | - | - | < 1 | - |
| Cyanide (free) | | | | | | |
| Cyanide (free) | 5 | mg/kg | - | - | < 5 | - |
| Cyanide (total) | | | | | | |
| Cyanide (total) | 5 | mg/kg | - | - | < 5 | - |
| Fluoride (Total) | | | | | | |
| Fluoride (Total) | 100 | mg/kg | - | - | 190 | - |
| pH (1:5 Aqueous extract at 25°C as rec.) | | | | | | |
| pH (1:5 Aqueous extract at 25°C as rec.) | 0.1 | pH Units | - | - | 6.4 | - |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 2.9 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | 0.6 | 0.6 | 3.1 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | 1.2 | 1.2 | 3.4 |
| Acenaphthene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 0.7 |
| Benz(a)anthracene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 2.0 |
| Benzo(a)pyrene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 2.2 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 1.8 |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 1.0 |

| Client Sample ID | | | QC01 | BH01_0.1 | BH01_1.0 | BH02_0.1 |
|---|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | M20-Se33596 | M20-Se33600 | M20-Se33601 | M20-Se33602 |
| Date Sampled | | | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 1.7 |
| Chrysene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 2.1 |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 5.8 |
| Fluorene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 0.9 |
| Naphthalene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 2.8 |
| Pyrene | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 5.2 |
| Total PAH* | 0.5 | mg/kg | - | < 0.5 | < 0.5 | 26.2 |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | 60 | 97 | 65 |
| p-Terphenyl-d14 (surr.) | 1 | % | - | 60 | 86 | 66 |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | |
| TRH C6-C9 | 20 | mg/kg | - | - | < 20 | - |
| TRH C10-C14 | 20 | mg/kg | - | - | < 20 | - |
| TRH C15-C28 | 50 | mg/kg | - | - | < 50 | - |
| TRH C29-C36 | 50 | mg/kg | - | - | < 50 | - |
| TRH C10-C36 (Total) | 50 | mg/kg | - | - | < 50 | - |
| Volatile Organics | | | | | | |
| Hexachlorobutadiene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Volatile Organics | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2.3-Trichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.2.4-Trimethylbenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3-Dichloropropane | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.3.5-Trimethylbenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 1.4-Dichlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2-Butanone (MEK) | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2-Propanone (Acetone) | 0.5 | mg/kg | - | - | < 0.5 | - |
| 4-Chlorotoluene | 0.5 | mg/kg | - | - | < 0.5 | - |
| 4-Methyl-2-pentanone (MIBK) | 0.5 | mg/kg | - | - | < 0.5 | - |
| Allyl chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzene | 0.1 | mg/kg | - | - | < 0.1 | - |
| Bromobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromochloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromodichloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromoform | 0.5 | mg/kg | - | - | < 0.5 | - |
| Bromomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Carbon disulfide | 0.5 | mg/kg | - | - | < 0.5 | - |

| Client Sample ID | | | QC01 | BH01_0.1 | BH01_1.0 | BH02_0.1 |
|---|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | M20-Se33596 | M20-Se33600 | M20-Se33601 | M20-Se33602 |
| Date Sampled | | | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Volatile Organics | | | | | | |
| Carbon Tetrachloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chlorobenzene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloroethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloroform | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| cis-1.2-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| cis-1.3-Dichloropropene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibromochloromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibromomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dichlorodifluoromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Ethylbenzene | 0.1 | mg/kg | - | - | < 0.1 | - |
| Iodomethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Isopropyl benzene (Cumene) | 0.5 | mg/kg | - | - | < 0.5 | - |
| m&p-Xylenes | 0.2 | mg/kg | - | - | < 0.2 | - |
| Methylene Chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| o-Xylene | 0.1 | mg/kg | - | - | < 0.1 | - |
| Styrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Tetrachloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Toluene | 0.1 | mg/kg | - | - | < 0.1 | - |
| trans-1.2-Dichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| trans-1.3-Dichloropropene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Trichloroethene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Trichlorofluoromethane | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vinyl chloride | 0.5 | mg/kg | - | - | < 0.5 | - |
| Xylenes - Total* | 0.3 | mg/kg | - | - | < 0.3 | - |
| Total MAH* | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | - | - | < 0.5 | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | - | - | < 0.5 | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | - | 58 | - |
| Toluene-d8 (surr.) | 1 | % | - | - | 66 | - |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | |
| Naphthalene ^{N02} | 0.5 | mg/kg | - | - | < 0.5 | - |
| TRH C6-C10 | 20 | mg/kg | - | - | < 20 | - |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | - | - | < 20 | - |
| TRH >C10-C16 | 50 | mg/kg | - | - | < 50 | - |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | - | - | < 50 | - |
| TRH >C16-C34 | 100 | mg/kg | - | - | < 100 | - |
| TRH >C34-C40 | 100 | mg/kg | - | - | < 100 | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | - | - | < 100 | - |
| Organochlorine Pesticides | | | | | | |
| Bifenthrin | 0.05 | mg/kg | - | - | < 0.05 | - |
| Chlordanes - Total | 0.1 | mg/kg | - | - | < 0.1 | - |
| 4.4'-DDD | 0.05 | mg/kg | - | - | < 0.05 | - |
| 4.4'-DDE | 0.05 | mg/kg | - | - | < 0.05 | - |
| 4.4'-DDT | 0.05 | mg/kg | - | - | < 0.05 | - |
| a-BHC | 0.05 | mg/kg | - | - | < 0.05 | - |
| Aldrin | 0.05 | mg/kg | - | - | < 0.05 | - |
| b-BHC | 0.05 | mg/kg | - | - | < 0.05 | - |
| d-BHC | 0.05 | mg/kg | - | - | < 0.05 | - |

| Client Sample ID | | | QC01 | BH01_0.1 | BH01_1.0 | BH02_0.1 |
|-------------------------------------|------|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | M20-Se33596 | M20-Se33600 | M20-Se33601 | M20-Se33602 |
| Date Sampled | | | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Dieldrin | 0.05 | mg/kg | - | - | < 0.05 | - |
| Endosulfan I | 0.05 | mg/kg | - | - | < 0.05 | - |
| Endosulfan II | 0.05 | mg/kg | - | - | < 0.05 | - |
| Endosulfan sulphate | 0.05 | mg/kg | - | - | < 0.05 | - |
| Endrin | 0.05 | mg/kg | - | - | < 0.05 | - |
| Endrin aldehyde | 0.05 | mg/kg | - | - | < 0.05 | - |
| Endrin ketone | 0.05 | mg/kg | - | - | < 0.05 | - |
| g-BHC (Lindane) | 0.05 | mg/kg | - | - | < 0.05 | - |
| Heptachlor | 0.05 | mg/kg | - | - | < 0.05 | - |
| Heptachlor epoxide | 0.05 | mg/kg | - | - | < 0.05 | - |
| Hexachlorobenzene | 0.05 | mg/kg | - | - | < 0.05 | - |
| Methoxychlor | 0.05 | mg/kg | - | - | < 0.05 | - |
| Toxaphene | 1 | mg/kg | - | - | < 1 | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | - | - | < 0.05 | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | - | < 0.05 | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | - | < 0.1 | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | - | < 0.1 | - |
| Dibutylchlorendate (surr.) | 1 | % | - | - | 133 | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | - | 127 | - |
| Chlorinated Hydrocarbons | | | | | | |
| 1,2,4-Trichlorobenzene | 0.05 | mg/kg | - | - | < 0.05 | - |
| Organophosphorus Pesticides | | | | | | |
| Chlorpyrifos | 0.2 | mg/kg | - | - | < 0.2 | - |
| Polychlorinated Biphenyls | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | - | - | < 0.1 | - |
| Aroclor-1221 | 0.1 | mg/kg | - | - | < 0.1 | - |
| Aroclor-1232 | 0.1 | mg/kg | - | - | < 0.1 | - |
| Aroclor-1242 | 0.1 | mg/kg | - | - | < 0.1 | - |
| Aroclor-1248 | 0.1 | mg/kg | - | - | < 0.1 | - |
| Aroclor-1254 | 0.1 | mg/kg | - | - | < 0.1 | - |
| Aroclor-1260 | 0.1 | mg/kg | - | - | < 0.1 | - |
| Total PCB* | 0.1 | mg/kg | - | - | < 0.1 | - |
| Dibutylchlorendate (surr.) | 1 | % | - | - | 133 | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | - | 127 | - |
| Triazines | | | | | | |
| Atrazine | 0.2 | mg/kg | - | - | < 0.2 | - |
| Acid Herbicides | | | | | | |
| 2,4-D | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2,4-DB | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2,4,5-T | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2,4,5-TP | 0.5 | mg/kg | - | - | < 0.5 | - |
| Actril (loxynil) | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dicamba | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dichlorprop | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dinitro-o-cresol | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dinoseb | 0.5 | mg/kg | - | - | < 0.5 | - |
| MCPA | 0.5 | mg/kg | - | - | < 0.5 | - |
| MCPB | 0.5 | mg/kg | - | - | < 0.5 | - |
| Mecoprop | 0.5 | mg/kg | - | - | < 0.5 | - |
| Warfarin (surr.) | 1 | % | - | - | 119 | - |

| Client Sample ID | | | QC01 | BH01_0.1 | BH01_1.0 | BH02_0.1 |
|----------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | M20-Se33596 | M20-Se33600 | M20-Se33601 | M20-Se33602 |
| Date Sampled | | | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Phenols (Halogenated) | | | | | | |
| 2-Chlorophenol | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2,4-Dichlorophenol | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2,4,5-Trichlorophenol | 1 | mg/kg | - | - | < 1 | - |
| 2,4,6-Trichlorophenol | 1 | mg/kg | - | - | < 1 | - |
| 2,6-Dichlorophenol | 0.5 | mg/kg | - | - | < 0.5 | - |
| 4-Chloro-3-methylphenol | 1 | mg/kg | - | - | < 1 | - |
| Pentachlorophenol | 1 | mg/kg | - | - | < 1 | - |
| Tetrachlorophenols - Total | 10 | mg/kg | - | - | < 10 | - |
| Total Halogenated Phenol* | 1 | mg/kg | - | - | < 1 | - |
| Phenols (non-Halogenated) | | | | | | |
| 2-Cyclohexyl-4,6-dinitrophenol | 20 | mg/kg | - | - | < 20 | - |
| 2-Methyl-4,6-dinitrophenol | 5 | mg/kg | - | - | < 5 | - |
| 2-Methylphenol (o-Cresol) | 0.2 | mg/kg | - | - | < 0.2 | - |
| 2-Nitrophenol | 1.0 | mg/kg | - | - | < 1 | - |
| 2,4-Dimethylphenol | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2,4-Dinitrophenol | 5 | mg/kg | - | - | < 5 | - |
| 3&4-Methylphenol (m&p-Cresol) | 0.4 | mg/kg | - | - | < 0.4 | - |
| 4-Nitrophenol | 5 | mg/kg | - | - | < 5 | - |
| Dinoseb | 20 | mg/kg | - | - | < 20 | - |
| Phenol | 0.5 | mg/kg | - | - | < 0.5 | - |
| Total Non-Halogenated Phenol* | 20 | mg/kg | - | - | < 20 | - |
| Phenol-d6 (surr.) | 1 | % | - | - | 46 | - |

| Client Sample ID | | | BH02_0.9 | BH03_0.1 | BH03_1.0 | BH04_0.1 |
|---------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | M20-Se33603 | M20-Se33604 | M20-Se33605 | M20-Se33606 |
| Date Sampled | | | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 37 | 2.7 | 26 | 170 |
| Barium | 10 | mg/kg | - | < 10 | - | - |
| Beryllium | 2 | mg/kg | - | < 2 | - | - |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 44 | < 5 | 23 | 34 |
| Cobalt | 5 | mg/kg | - | < 5 | - | - |
| Copper | 5 | mg/kg | 6.5 | < 5 | 8.4 | 8.9 |
| Lead | 5 | mg/kg | 21 | 25 | 120 | 25 |
| Manganese | 5 | mg/kg | - | 37 | - | - |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Molybdenum | 5 | mg/kg | < 5 | < 5 | < 5 | < 5 |
| Nickel | 5 | mg/kg | 15 | < 5 | 12 | 25 |
| Selenium | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Silver | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Tin | 10 | mg/kg | < 10 | < 10 | < 10 | < 10 |
| Zinc | 5 | mg/kg | 33 | 24 | 48 | 59 |

| Client Sample ID | | | BH02_0.9 | BH03_0.1 | BH03_1.0 | BH04_0.1 |
|---|-----|----------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | M20-Se33603 | M20-Se33604 | M20-Se33605 | M20-Se33606 |
| Date Sampled | | | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 |
| Test/Reference | LOR | Unit | | | | |
| % Moisture | 1 | % | 10 | 3.5 | 10 | 11 |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | 0.1 | pH Units | 8.0 | - | 6.5 | 8.0 |
| Chromium (hexavalent) | 1 | mg/kg | - | < 1 | - | - |
| Cyanide (free) | 5 | mg/kg | - | < 5 | - | - |
| Cyanide (total) | 5 | mg/kg | - | < 5 | - | - |
| Fluoride (Total) | 100 | mg/kg | - | < 100 | - | - |
| pH (1:5 Aqueous extract at 25°C as rec.) | 0.1 | pH Units | - | 7.4 | - | - |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | 0.6 | - | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | 1.2 | - | 1.2 |
| Acenaphthene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Anthracene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Chrysene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Fluorene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Naphthalene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | - | < 0.5 | - | < 0.5 |
| Pyrene | 0.5 | mg/kg | - | < 0.5 | - | 0.5 |
| Total PAH* | 0.5 | mg/kg | - | < 0.5 | - | 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | 63 | - | 67 |
| p-Terphenyl-d14 (surr.) | 1 | % | - | 82 | - | 69 |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | |
| TRH C6-C9 | 20 | mg/kg | - | < 20 | - | - |
| TRH C10-C14 | 20 | mg/kg | - | < 20 | - | - |
| TRH C15-C28 | 50 | mg/kg | - | < 50 | - | - |
| TRH C29-C36 | 50 | mg/kg | - | 53 | - | - |
| TRH C10-C36 (Total) | 50 | mg/kg | - | 53 | - | - |
| Volatile Organics | | | | | | |
| Hexachlorobutadiene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Volatile Organics | | | | | | |
| 1.1-Dichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1-Dichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.1-Trichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.1.2-Tetrachloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.2-Trichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.1.2.2-Tetrachloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dibromoethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dichlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dichloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1.2-Dichloropropane | 0.5 | mg/kg | - | < 0.5 | - | - |

| Client Sample ID | | | BH02_0.9 Soil M20-Se33603 Sep 18, 2020 | BH03_0.1 Soil M20-Se33604 Sep 18, 2020 | BH03_1.0 Soil M20-Se33605 Sep 18, 2020 | BH04_0.1 Soil M20-Se33606 Sep 18, 2020 |
|-------------------------------------|-----|-------|---|---|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Volatile Organics | | | | | | |
| 1,2,3-Trichloropropane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1,2,4-Trimethylbenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1,3-Dichlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1,3-Dichloropropane | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1,3,5-Trimethylbenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 1,4-Dichlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2-Butanone (MEK) | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2-Propanone (Acetone) | 0.5 | mg/kg | - | < 0.5 | - | - |
| 4-Chlorotoluene | 0.5 | mg/kg | - | < 0.5 | - | - |
| 4-Methyl-2-pentanone (MIBK) | 0.5 | mg/kg | - | < 0.5 | - | - |
| Allyl chloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Bromobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromochloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromodichloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromoform | 0.5 | mg/kg | - | < 0.5 | - | - |
| Bromomethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Carbon disulfide | 0.5 | mg/kg | - | < 0.5 | - | - |
| Carbon Tetrachloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chlorobenzene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chloroethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chloroform | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| cis-1,2-Dichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| cis-1,3-Dichloropropene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dibromochloromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dibromomethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dichlorodifluoromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Ethylbenzene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Iodomethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Isopropyl benzene (Cumene) | 0.5 | mg/kg | - | < 0.5 | - | - |
| m&p-Xylenes | 0.2 | mg/kg | - | < 0.2 | - | - |
| Methylene Chloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| o-Xylene | 0.1 | mg/kg | - | < 0.1 | - | - |
| Styrene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Tetrachloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Toluene | 0.1 | mg/kg | - | < 0.1 | - | - |
| trans-1,2-Dichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| trans-1,3-Dichloropropene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Trichloroethene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Trichlorofluoromethane | 0.5 | mg/kg | - | < 0.5 | - | - |
| Vinyl chloride | 0.5 | mg/kg | - | < 0.5 | - | - |
| Xylenes - Total* | 0.3 | mg/kg | - | < 0.3 | - | - |
| Total MAH* | 0.5 | mg/kg | - | < 0.5 | - | - |
| Vic EPA IWRG 621 CHC (Total)* | 0.5 | mg/kg | - | < 0.5 | - | - |
| Vic EPA IWRG 621 Other CHC (Total)* | 0.5 | mg/kg | - | < 0.5 | - | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | 75 | - | - |
| Toluene-d8 (surr.) | 1 | % | - | 80 | - | - |

| Client Sample ID | | | BH02_0.9 Soil M20-Se33603 Sep 18, 2020 | BH03_0.1 Soil M20-Se33604 Sep 18, 2020 | BH03_1.0 Soil M20-Se33605 Sep 18, 2020 | BH04_0.1 Soil M20-Se33606 Sep 18, 2020 |
|---|------|-------|---|---|---|---|
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | | | | |
| Date Sampled | | | | | | |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | |
| Naphthalene ^{N02} | 0.5 | mg/kg | - | < 0.5 | - | - |
| TRH C6-C10 | 20 | mg/kg | - | < 20 | - | - |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | - | < 20 | - | - |
| TRH >C10-C16 | 50 | mg/kg | - | < 50 | - | - |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | - | < 50 | - | - |
| TRH >C16-C34 | 100 | mg/kg | - | < 100 | - | - |
| TRH >C34-C40 | 100 | mg/kg | - | < 100 | - | - |
| TRH >C10-C40 (total)* | 100 | mg/kg | - | < 100 | - | - |
| Organochlorine Pesticides | | | | | | |
| Bifenthrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| Chlordanes - Total | 0.1 | mg/kg | - | < 0.1 | - | - |
| 4,4'-DDD | 0.05 | mg/kg | - | < 0.05 | - | - |
| 4,4'-DDE | 0.05 | mg/kg | - | < 0.05 | - | - |
| 4,4'-DDT | 0.05 | mg/kg | - | < 0.05 | - | - |
| a-BHC | 0.05 | mg/kg | - | < 0.05 | - | - |
| Aldrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| b-BHC | 0.05 | mg/kg | - | < 0.05 | - | - |
| d-BHC | 0.05 | mg/kg | - | < 0.05 | - | - |
| Dieldrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan I | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan II | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endosulfan sulphate | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin aldehyde | 0.05 | mg/kg | - | < 0.05 | - | - |
| Endrin ketone | 0.05 | mg/kg | - | < 0.05 | - | - |
| g-BHC (Lindane) | 0.05 | mg/kg | - | < 0.05 | - | - |
| Heptachlor | 0.05 | mg/kg | - | < 0.05 | - | - |
| Heptachlor epoxide | 0.05 | mg/kg | - | < 0.05 | - | - |
| Hexachlorobenzene | 0.05 | mg/kg | - | < 0.05 | - | - |
| Methoxychlor | 0.05 | mg/kg | - | < 0.05 | - | - |
| Toxaphene | 1 | mg/kg | - | < 1 | - | - |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | - | < 0.05 | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | < 0.05 | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Dibutylchloroendate (surr.) | 1 | % | - | 126 | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 78 | - | - |
| Chlorinated Hydrocarbons | | | | | | |
| 1,2,4-Trichlorobenzene | 0.05 | mg/kg | - | < 0.05 | - | - |
| Organophosphorus Pesticides | | | | | | |
| Chlorpyrifos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Polychlorinated Biphenyls | | | | | | |
| Aroclor-1016 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1221 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1232 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1242 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1248 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1254 | 0.1 | mg/kg | - | < 0.1 | - | - |
| Aroclor-1260 | 0.1 | mg/kg | - | < 0.1 | - | - |

| Client Sample ID | | | BH02_0.9 | BH03_0.1 | BH03_1.0 | BH04_0.1 |
|----------------------------------|-----|-------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | M20-Se33603 | M20-Se33604 | M20-Se33605 | M20-Se33606 |
| Date Sampled | | | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 |
| Test/Reference | LOR | Unit | | | | |
| Polychlorinated Biphenyls | | | | | | |
| Total PCB* | 0.1 | mg/kg | - | < 0.1 | - | - |
| Dibutylchloroendate (surr.) | 1 | % | - | 126 | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 78 | - | - |
| Triazines | | | | | | |
| Atrazine | 0.2 | mg/kg | - | < 0.2 | - | - |
| Acid Herbicides | | | | | | |
| 2,4-D | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2,4-DB | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2,4,5-T | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2,4,5-TP | 0.5 | mg/kg | - | < 0.5 | - | - |
| Actril (loxynil) | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dicamba | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dichlorprop | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dinitro-o-cresol | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dinoseb | 0.5 | mg/kg | - | < 0.5 | - | - |
| MCPA | 0.5 | mg/kg | - | < 0.5 | - | - |
| MCPB | 0.5 | mg/kg | - | < 0.5 | - | - |
| Mecoprop | 0.5 | mg/kg | - | < 0.5 | - | - |
| Warfarin (surr.) | 1 | % | - | 122 | - | - |
| Phenols (Halogenated) | | | | | | |
| 2-Chlorophenol | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2,4-Dichlorophenol | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2,4,5-Trichlorophenol | 1 | mg/kg | - | < 1 | - | - |
| 2,4,6-Trichlorophenol | 1 | mg/kg | - | < 1 | - | - |
| 2,6-Dichlorophenol | 0.5 | mg/kg | - | < 0.5 | - | - |
| 4-Chloro-3-methylphenol | 1 | mg/kg | - | < 1 | - | - |
| Pentachlorophenol | 1 | mg/kg | - | < 1 | - | - |
| Tetrachlorophenols - Total | 10 | mg/kg | - | < 10 | - | - |
| Total Halogenated Phenol* | 1 | mg/kg | - | < 1 | - | - |
| Phenols (non-Halogenated) | | | | | | |
| 2-Cyclohexyl-4,6-dinitrophenol | 20 | mg/kg | - | < 20 | - | - |
| 2-Methyl-4,6-dinitrophenol | 5 | mg/kg | - | < 5 | - | - |
| 2-Methylphenol (o-Cresol) | 0.2 | mg/kg | - | < 0.2 | - | - |
| 2-Nitrophenol | 1.0 | mg/kg | - | < 1 | - | - |
| 2,4-Dimethylphenol | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2,4-Dinitrophenol | 5 | mg/kg | - | < 5 | - | - |
| 3&4-Methylphenol (m&p-Cresol) | 0.4 | mg/kg | - | < 0.4 | - | - |
| 4-Nitrophenol | 5 | mg/kg | - | < 5 | - | - |
| Dinoseb | 20 | mg/kg | - | < 20 | - | - |
| Phenol | 0.5 | mg/kg | - | < 0.5 | - | - |
| Total Non-Halogenated Phenol* | 20 | mg/kg | - | < 20 | - | - |
| Phenol-d6 (surr.) | 1 | % | - | 47 | - | - |

| Client Sample ID | | | BH04_0.5 | BH05_0.1 | BH05_0.5 |
|---|-----|----------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil |
| Eurofins Sample No. | | | M20-Se33607 | M20-Se33608 | M20-Se33609 |
| Date Sampled | | | Sep 18, 2020 | Sep 18, 2020 | Sep 18, 2020 |
| Test/Reference | LOR | Unit | | | |
| Heavy Metals | | | | | |
| Arsenic | 2 | mg/kg | 48 | 19 | 13 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 36 | 16 | 20 |
| Copper | 5 | mg/kg | 13 | 6.4 | 6.4 |
| Lead | 5 | mg/kg | 70 | 18 | 12 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 |
| Molybdenum | 5 | mg/kg | < 5 | < 5 | < 5 |
| Nickel | 5 | mg/kg | 19 | 19 | 18 |
| Selenium | 2 | mg/kg | < 2 | < 2 | < 2 |
| Silver | 2 | mg/kg | < 2 | < 2 | < 2 |
| Tin | 10 | mg/kg | 14 | < 10 | < 10 |
| Zinc | 5 | mg/kg | 71 | 29 | 23 |
| % Moisture | | | | | |
| % Moisture | 1 | % | 14 | 11 | 6.7 |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | | | | | |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | 0.1 | pH Units | 7.4 | 8.4 | 7.7 |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | 2.0 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | 2.3 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | 2.5 | - |
| Acenaphthene | 0.5 | mg/kg | - | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | - | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | - | 0.5 | - |
| Benzo(a)anthracene | 0.5 | mg/kg | - | 1.2 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | - | 1.6 | - |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | - | 1.1 | - |
| Benzo(g,h,i)perylene | 0.5 | mg/kg | - | 1.2 | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | 1.0 | - |
| Chrysene | 0.5 | mg/kg | - | 1.4 | - |
| Dibenz(a,h)anthracene | 0.5 | mg/kg | - | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | - | 3.3 | - |
| Fluorene | 0.5 | mg/kg | - | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | 0.8 | - |
| Naphthalene | 0.5 | mg/kg | - | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | - | 1.8 | - |
| Pyrene | 0.5 | mg/kg | - | 3.1 | - |
| Total PAH* | 0.5 | mg/kg | - | 17 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | 65 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | - | 68 | - |

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|--|---------------------|------------------|---------------------|
| Metals IWRG 621 : Metals M12 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | Melbourne | Sep 21, 2020 | 28 Days |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE | Melbourne | Sep 21, 2020 | 7 Days |
| Metals (Ag/As/B/Be/Cd/Cr/Co/Cu/Hg/Mn/Mo/Ni/Pb/Se/Sn/Zn) - Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury) | Melbourne | Sep 21, 2020 | 28 Days |
| Chromium (hexavalent) - Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060) | Melbourne | Sep 21, 2020 | 28 Days |
| Cyanide (free) - Method: LTM-INO-4020 Total Free WAD Cyanide by CFA | Melbourne | Sep 21, 2020 | 14 Days |
| Cyanide (total) - Method: LTM-INO-4020 Total Free WAD Cyanide by CFA | Melbourne | Sep 21, 2020 | 14 Days |
| Fluoride (Total) - Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE | Melbourne | Sep 22, 2020 | 28 Days |
| pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE | Melbourne | Sep 21, 2020 | 7 Days |
| Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | Melbourne | Sep 21, 2020 | 14 Days |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Melbourne | Sep 21, 2020 | 14 Days |
| Volatile Organics - Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS | Melbourne | Sep 21, 2020 | 7 Days |
| Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260) | Melbourne | Sep 21, 2020 | 7 Days |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Melbourne | Sep 21, 2020 | 14 Days |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40 | Melbourne | Sep 21, 2020 | 14 Days |
| Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270) | Melbourne | Sep 21, 2020 | 14 Days |
| Chlorinated Hydrocarbons - Method: USEPA 8121 Chlorinated Hydrocarbons | Melbourne | Sep 21, 2020 | 14 Days |
| Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8081) | Melbourne | Sep 21, 2020 | 14 Days |
| Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082) | Melbourne | Sep 21, 2020 | 28 Days |
| Triazines - Method: LTM-ORG-2210 Triazine Herbicides in Soil and Water by GC-MS/MS | Melbourne | Sep 21, 2020 | 14 Days |
| Acid Herbicides - Method: LTM-ORG-2180 Phenoxy Acid Herbicides | Melbourne | Sep 21, 2020 | 14 Days |
| Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | Melbourne | Sep 21, 2020 | 14 Days |
| Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | Melbourne | Sep 21, 2020 | 14 Days |
| % Moisture - Method: LTM-GEN-7080 Moisture | Melbourne | Sep 18, 2020 | 14 Days |

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NATA # 1261 Site # 20794

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Phone : 0800 856 450
IANZ # 1290

| | | | | | |
|----------------------|--|-------------------|-----------|----------------------|----------------------|
| Company Name: | Greencap VIC P/L | Order No.: | | Received: | Sep 18, 2020 3:31 PM |
| Address: | Level 1, 677 High St Kew East VIC 3102 | Report #: | 745197 | Due: | Sep 25, 2020 |
| Project Name: | | Phone: | 9890 8811 | Priority: | 5 Day |
| Project ID: | J169564 | Fax: | 9890 8911 | Contact Name: | Luke Richards |

Eurofins Analytical Services Manager : Michael Morrison

| Sample Detail | | | | | | HOLD | pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | TRH C6-C10 | Polycyclic Aromatic Hydrocarbons | Metals IWRG 621 : Metals M12 | Moisture Set | R20A: NEPM Basic Suite plus VIC EPA IWRG 621 Suite |
|---|-----------|--------------|---------------|--------|-------------|------|--|------------|----------------------------------|------------------------------|--------------|--|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| Newcastle Laboratory | | | | | | | | | | | | |
| External Laboratory | | | | | | | | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | | | | | | | |
| 1 | QC01 | Sep 18, 2020 | | Soil | M20-Se33596 | | | | X | X | | |
| 2 | QC03 | Sep 18, 2020 | | Water | M20-Se33597 | | | | X | | | |
| 3 | QC04 | Sep 18, 2020 | | Water | M20-Se33598 | | | | X | | | |
| 4 | QC05 | Sep 18, 2020 | | Water | M20-Se33599 | | X | | | | | |
| 5 | BH01_0.1 | Sep 18, 2020 | | Soil | M20-Se33600 | | X | X | X | X | | |
| 6 | BH01_1.0 | Sep 18, 2020 | | Soil | M20-Se33601 | | | | | X | X | |
| 7 | BH02_0.1 | Sep 18, 2020 | | Soil | M20-Se33602 | | X | X | X | X | | |
| 8 | BH02_0.9 | Sep 18, 2020 | | Soil | M20-Se33603 | | X | | X | X | | |
| 9 | BH03_0.1 | Sep 18, 2020 | | Soil | M20-Se33604 | | | | | X | X | |

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| | | | | | |
|----------------------|--|-------------------|-----------|----------------------|----------------------|
| Company Name: | Greencap VIC P/L | Order No.: | | Received: | Sep 18, 2020 3:31 PM |
| Address: | Level 1, 677 High St Kew East VIC 3102 | Report #: | 745197 | Due: | Sep 25, 2020 |
| Project Name: | | Phone: | 9890 8811 | Priority: | 5 Day |
| Project ID: | J169564 | Fax: | 9890 8911 | Contact Name: | Luke Richards |

Eurofins Analytical Services Manager : Michael Morrison

| Sample Detail | | | | | | HOLD | pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | TRH C6-C10 | Polycyclic Aromatic Hydrocarbons | Metals IWRG 621 : Metals M12 | Moisture Set | R20A: NIEPM Basic Suite plus VIC EPA IWRG 621 Suite |
|--|----------|--------------|--|------|-------------|------|--|------------|----------------------------------|------------------------------|--------------|---|
| Melbourne Laboratory - NATA Site # 1254 & 14271 | | | | | | X | X | X | X | X | X | X |
| Sydney Laboratory - NATA Site # 18217 | | | | | | | | | | | | |
| Brisbane Laboratory - NATA Site # 20794 | | | | | | | | | | | | |
| Perth Laboratory - NATA Site # 23736 | | | | | | | | | | | | |
| 10 | BH03_1.0 | Sep 18, 2020 | | Soil | M20-Se33605 | | X | | X | X | | |
| 11 | BH04_0.1 | Sep 18, 2020 | | Soil | M20-Se33606 | | X | X | X | X | | |
| 12 | BH04_0.5 | Sep 18, 2020 | | Soil | M20-Se33607 | | X | | X | X | | |
| 13 | BH05_0.1 | Sep 18, 2020 | | Soil | M20-Se33608 | | X | X | X | X | | |
| 14 | BH05_0.5 | Sep 18, 2020 | | Soil | M20-Se33609 | | X | | X | X | | |
| 15 | BH01_0.5 | Sep 18, 2020 | | Soil | M20-Se33610 | X | | | | | | |
| 16 | BH01_1.5 | Sep 18, 2020 | | Soil | M20-Se33611 | X | | | | | | |
| 17 | BH02_0.5 | Sep 18, 2020 | | Soil | M20-Se33612 | X | | | | | | |
| 18 | BH03_0.5 | Sep 18, 2020 | | Soil | M20-Se33613 | X | | | | | | |
| Test Counts | | | | | | 4 | 8 | 1 | 4 | 11 | 11 | 2 |

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

| | |
|-------------------------|--|
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| LOR | Limit of Reporting. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| CRM | Certified Reference Material - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| USEPA | United States Environmental Protection Agency |
| APHA | American Public Health Association |
| TCLP | Toxicity Characteristic Leaching Procedure |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| QSM | US Department of Defense Quality Systems Manual Version 5.3 |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| TEQ | Toxic Equivalency Quotient |

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|-------|----------|--|--|-------------------|-------------|-----------------|
| Method Blank | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | mg/kg | < 2 | | | 2 | Pass | |
| Barium | mg/kg | < 10 | | | 10 | Pass | |
| Beryllium | mg/kg | < 2 | | | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | | | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | | | 5 | Pass | |
| Cobalt | mg/kg | < 5 | | | 5 | Pass | |
| Copper | mg/kg | < 5 | | | 5 | Pass | |
| Lead | mg/kg | < 5 | | | 5 | Pass | |
| Manganese | mg/kg | < 5 | | | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Molybdenum | mg/kg | < 5 | | | 5 | Pass | |
| Nickel | mg/kg | < 5 | | | 5 | Pass | |
| Selenium | mg/kg | < 2 | | | 2 | Pass | |
| Silver | mg/kg | < 2 | | | 2 | Pass | |
| Tin | mg/kg | < 10 | | | 10 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |
| Method Blank | | | | | | | |
| Chromium (hexavalent) | mg/kg | < 1 | | | 1 | Pass | |
| Cyanide (total) | mg/kg | < 5 | | | 5 | Pass | |
| Fluoride (Total) | mg/kg | < 100 | | | 100 | Pass | |
| Method Blank | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Acenaphthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(g,h,i)perylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibenz(a,h)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Method Blank | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | | |
| TRH C6-C9 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C10-C14 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C15-C28 | mg/kg | < 50 | | | 50 | Pass | |
| TRH C29-C36 | mg/kg | < 50 | | | 50 | Pass | |
| Method Blank | | | | | | | |
| Volatile Organics | | | | | | | |
| Hexachlorobutadiene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Method Blank | | | | | | | |
| Volatile Organics | | | | | | | |
| 1,1-Dichloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|-------|----------|--|--|-------------------|-------------|-----------------|
| 1.1-Dichloroethene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.1.1-Trichloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.1.1.2-Tetrachloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.1.2-Trichloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.1.2.2-Tetrachloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2-Dibromoethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2-Dichlorobenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2-Dichloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2-Dichloropropane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2.3-Trichloropropane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.2.4-Trimethylbenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.3-Dichlorobenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.3-Dichloropropane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.3.5-Trimethylbenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 1.4-Dichlorobenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 2-Butanone (MEK) | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 2-Propanone (Acetone) | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 4-Chlorotoluene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Allyl chloride | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Bromobenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Bromochloromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Bromodichloromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Bromoform | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Bromomethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Carbon disulfide | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Carbon Tetrachloride | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chlorobenzene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chloroethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chloroform | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chloromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| cis-1.2-Dichloroethene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| cis-1.3-Dichloropropene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibromochloromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibromomethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dichlorodifluoromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Ethylbenzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Iodomethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Isopropyl benzene (Cumene) | mg/kg | < 0.5 | | | 0.5 | Pass | |
| m&p-Xylenes | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Methylene Chloride | mg/kg | < 0.5 | | | 0.5 | Pass | |
| o-Xylene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Styrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Tetrachloroethene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Toluene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| trans-1.2-Dichloroethene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| trans-1.3-Dichloropropene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Trichloroethene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Trichlorofluoromethane | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Vinyl chloride | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Xylenes - Total* | mg/kg | < 0.3 | | | 0.3 | Pass | |
| Method Blank | | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|--|--|-------------------|-------------|-----------------|
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| TRH C6-C10 | mg/kg | < 20 | | | 20 | Pass | |
| TRH >C10-C16 | mg/kg | < 50 | | | 50 | Pass | |
| TRH >C16-C34 | mg/kg | < 100 | | | 100 | Pass | |
| TRH >C34-C40 | mg/kg | < 100 | | | 100 | Pass | |
| Method Blank | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Bifenthrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Chlordanes - Total | mg/kg | < 0.1 | | | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDE | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDT | mg/kg | < 0.05 | | | 0.05 | Pass | |
| a-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| b-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| d-BHC | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan II | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan sulphate | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | | | 0.05 | Pass | |
| g-BHC (Lindane) | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Toxaphene | mg/kg | < 1 | | | 1 | Pass | |
| Method Blank | | | | | | | |
| Chlorinated Hydrocarbons | | | | | | | |
| 1.2.4-Trichlorobenzene | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Method Blank | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| Chlorpyrifos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Method Blank | | | | | | | |
| Polychlorinated Biphenyls | | | | | | | |
| Aroclor-1016 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1221 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1232 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1242 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1248 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1254 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Aroclor-1260 | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Total PCB* | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Method Blank | | | | | | | |
| Triazines | | | | | | | |
| Atrazine | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Method Blank | | | | | | | |
| Phenols (Halogenated) | | | | | | | |
| 2-Chlorophenol | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 2.4-Dichlorophenol | mg/kg | < 0.5 | | | 0.5 | Pass | |
| 2.4.5-Trichlorophenol | mg/kg | < 1 | | | 1 | Pass | |
| 2.4.6-Trichlorophenol | mg/kg | < 1 | | | 1 | Pass | |

| Test | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|-------|----------|--|-------------------|-------------|-----------------|
| 2,6-Dichlorophenol | mg/kg | < 0.5 | | 0.5 | Pass | |
| 4-Chloro-3-methylphenol | mg/kg | < 1 | | 1 | Pass | |
| Pentachlorophenol | mg/kg | < 1 | | 1 | Pass | |
| Tetrachlorophenols - Total | mg/kg | < 10 | | 10 | Pass | |
| Method Blank | | | | | | |
| Phenols (non-Halogenated) | | | | | | |
| 2-Cyclohexyl-4,6-dinitrophenol | mg/kg | < 20 | | 20 | Pass | |
| 2-Methyl-4,6-dinitrophenol | mg/kg | < 5 | | 5 | Pass | |
| 2-Methylphenol (o-Cresol) | mg/kg | < 0.2 | | 0.2 | Pass | |
| 2-Nitrophenol | mg/kg | < 1 | | 1.0 | Pass | |
| 2,4-Dimethylphenol | mg/kg | < 0.5 | | 0.5 | Pass | |
| 2,4-Dinitrophenol | mg/kg | < 5 | | 5 | Pass | |
| 3&4-Methylphenol (m&p-Cresol) | mg/kg | < 0.4 | | 0.4 | Pass | |
| 4-Nitrophenol | mg/kg | < 5 | | 5 | Pass | |
| Dinoseb | mg/kg | < 20 | | 20 | Pass | |
| Phenol | mg/kg | < 0.5 | | 0.5 | Pass | |
| LCS - % Recovery | | | | | | |
| Heavy Metals | | | | | | |
| Arsenic | % | 111 | | 80-120 | Pass | |
| Barium | % | 114 | | 80-120 | Pass | |
| Beryllium | % | 112 | | 80-120 | Pass | |
| Cadmium | % | 103 | | 80-120 | Pass | |
| Chromium | % | 117 | | 80-120 | Pass | |
| Cobalt | % | 116 | | 80-120 | Pass | |
| Copper | % | 116 | | 80-120 | Pass | |
| Lead | % | 120 | | 80-120 | Pass | |
| Manganese | % | 115 | | 80-120 | Pass | |
| Mercury | % | 109 | | 80-120 | Pass | |
| Molybdenum | % | 115 | | 80-120 | Pass | |
| Nickel | % | 112 | | 80-120 | Pass | |
| Selenium | % | 109 | | 80-120 | Pass | |
| Silver | % | 106 | | 80-120 | Pass | |
| Tin | % | 113 | | 80-120 | Pass | |
| Zinc | % | 110 | | 80-120 | Pass | |
| LCS - % Recovery | | | | | | |
| Chromium (hexavalent) | % | 98 | | 70-130 | Pass | |
| Cyanide (total) | % | 93 | | 70-130 | Pass | |
| Fluoride (Total) | % | 109 | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Acenaphthene | % | 77 | | 70-130 | Pass | |
| Acenaphthylene | % | 73 | | 70-130 | Pass | |
| Anthracene | % | 79 | | 70-130 | Pass | |
| Benz(a)anthracene | % | 72 | | 70-130 | Pass | |
| Benzo(a)pyrene | % | 75 | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 100 | | 70-130 | Pass | |
| Benzo(g,h,i)perylene | % | 84 | | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 94 | | 70-130 | Pass | |
| Chrysene | % | 81 | | 70-130 | Pass | |
| Dibenz(a,h)anthracene | % | 78 | | 70-130 | Pass | |
| Fluoranthene | % | 76 | | 70-130 | Pass | |
| Fluorene | % | 72 | | 70-130 | Pass | |
| Indeno(1,2,3-cd)pyrene | % | 73 | | 70-130 | Pass | |
| Naphthalene | % | 81 | | 70-130 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|-------|----------|--|--|-------------------|-------------|-----------------|
| Phenanthrene | % | 72 | | | 70-130 | Pass | |
| Pyrene | % | 80 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | | | | |
| TRH C6-C9 | % | 98 | | | 70-130 | Pass | |
| TRH C10-C14 | % | 83 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Volatile Organics | | | | | | | |
| 1.1-Dichloroethene | % | 114 | | | 70-130 | Pass | |
| 1.1.1-Trichloroethane | % | 94 | | | 70-130 | Pass | |
| 1.2-Dichlorobenzene | % | 123 | | | 70-130 | Pass | |
| 1.2-Dichloroethane | % | 116 | | | 70-130 | Pass | |
| Benzene | % | 106 | | | 70-130 | Pass | |
| Ethylbenzene | % | 117 | | | 70-130 | Pass | |
| m&p-Xylenes | % | 111 | | | 70-130 | Pass | |
| Toluene | % | 106 | | | 70-130 | Pass | |
| Trichloroethene | % | 122 | | | 70-130 | Pass | |
| Xylenes - Total* | % | 113 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | | | | |
| Naphthalene | % | 92 | | | 70-130 | Pass | |
| TRH C6-C10 | % | 94 | | | 70-130 | Pass | |
| TRH >C10-C16 | % | 87 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| Bifenthrin | % | 94 | | | 70-130 | Pass | |
| Chlordanes - Total | % | 79 | | | 70-130 | Pass | |
| 4.4'-DDD | % | 100 | | | 70-130 | Pass | |
| 4.4'-DDE | % | 96 | | | 70-130 | Pass | |
| 4.4'-DDT | % | 78 | | | 70-130 | Pass | |
| a-BHC | % | 98 | | | 70-130 | Pass | |
| Aldrin | % | 90 | | | 70-130 | Pass | |
| b-BHC | % | 82 | | | 70-130 | Pass | |
| d-BHC | % | 101 | | | 70-130 | Pass | |
| Dieldrin | % | 76 | | | 70-130 | Pass | |
| Endosulfan I | % | 109 | | | 70-130 | Pass | |
| Endosulfan II | % | 110 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 89 | | | 70-130 | Pass | |
| Endrin | % | 93 | | | 70-130 | Pass | |
| Endrin aldehyde | % | 77 | | | 70-130 | Pass | |
| Endrin ketone | % | 73 | | | 70-130 | Pass | |
| g-BHC (Lindane) | % | 77 | | | 70-130 | Pass | |
| Heptachlor | % | 95 | | | 70-130 | Pass | |
| Heptachlor epoxide | % | 83 | | | 70-130 | Pass | |
| Hexachlorobenzene | % | 93 | | | 70-130 | Pass | |
| Methoxychlor | % | 77 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Chlorinated Hydrocarbons | | | | | | | |
| 1.2.4-Trichlorobenzene | % | 95 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Polychlorinated Biphenyls | | | | | | | |
| Aroclor-1260 | % | 99 | | | 70-130 | Pass | |
| LCS - % Recovery | | | | | | | |
| Phenols (Halogenated) | | | | | | | |

| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code | | |
|---|---------------|-----------|-------------------|-------------|-------------------|-------------|-----------------|
| 2-Chlorophenol | % | 59 | 30-130 | Pass | | | |
| 2,4-Dichlorophenol | % | 65 | 30-130 | Pass | | | |
| 2,4,5-Trichlorophenol | % | 90 | 30-130 | Pass | | | |
| 2,4,6-Trichlorophenol | % | 57 | 30-130 | Pass | | | |
| 2,6-Dichlorophenol | % | 53 | 30-130 | Pass | | | |
| 4-Chloro-3-methylphenol | % | 58 | 30-130 | Pass | | | |
| Pentachlorophenol | % | 43 | 30-130 | Pass | | | |
| Tetrachlorophenols - Total | % | 78 | 30-130 | Pass | | | |
| LCS - % Recovery | | | | | | | |
| Phenols (non-Halogenated) | | | | | | | |
| 2-Cyclohexyl-4,6-dinitrophenol | % | 51 | 30-130 | Pass | | | |
| 2-Methyl-4,6-dinitrophenol | % | 38 | 30-130 | Pass | | | |
| 2-Methylphenol (o-Cresol) | % | 59 | 30-130 | Pass | | | |
| 2-Nitrophenol | % | 70 | 30-130 | Pass | | | |
| 2,4-Dimethylphenol | % | 80 | 30-130 | Pass | | | |
| 2,4-Dinitrophenol | % | 33 | 30-130 | Pass | | | |
| 3&4-Methylphenol (m&p-Cresol) | % | 60 | 30-130 | Pass | | | |
| 4-Nitrophenol | % | 84 | 30-130 | Pass | | | |
| Dinoseb | % | 54 | 30-130 | Pass | | | |
| Phenol | % | 58 | 30-130 | Pass | | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike - % Recovery | | | | | | | |
| Heavy Metals | | | | | | | |
| | | | | Result 1 | | | |
| Arsenic | M20-Se33972 | NCP | % | 96 | 75-125 | Pass | |
| Cadmium | M20-Se33972 | NCP | % | 101 | 75-125 | Pass | |
| Chromium | M20-Se33972 | NCP | % | 106 | 75-125 | Pass | |
| Copper | M20-Se33972 | NCP | % | 97 | 75-125 | Pass | |
| Lead | M20-Se33972 | NCP | % | 103 | 75-125 | Pass | |
| Mercury | M20-Se33972 | NCP | % | 102 | 75-125 | Pass | |
| Molybdenum | M20-Se33972 | NCP | % | 104 | 75-125 | Pass | |
| Nickel | M20-Se33972 | NCP | % | 103 | 75-125 | Pass | |
| Selenium | M20-Se33972 | NCP | % | 87 | 75-125 | Pass | |
| Silver | M20-Se33972 | NCP | % | 101 | 75-125 | Pass | |
| Tin | M20-Se33972 | NCP | % | 112 | 75-125 | Pass | |
| Zinc | M20-Se33972 | NCP | % | 110 | 75-125 | Pass | |
| Spike - % Recovery | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| | | | | Result 1 | | | |
| Acenaphthene | B20-Se26792 | NCP | % | 74 | 70-130 | Pass | |
| Acenaphthylene | B20-Se26792 | NCP | % | 72 | 70-130 | Pass | |
| Anthracene | B20-Se26792 | NCP | % | 72 | 70-130 | Pass | |
| Benz(a)anthracene | B20-Se26792 | NCP | % | 71 | 70-130 | Pass | |
| Benzo(a)pyrene | B20-Se26792 | NCP | % | 98 | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | B20-Se26792 | NCP | % | 103 | 70-130 | Pass | |
| Benzo(g,h,i)perylene | B20-Se26792 | NCP | % | 75 | 70-130 | Pass | |
| Benzo(k)fluoranthene | B20-Se26792 | NCP | % | 113 | 70-130 | Pass | |
| Chrysene | B20-Se26792 | NCP | % | 76 | 70-130 | Pass | |
| Dibenz(a,h)anthracene | B20-Se26792 | NCP | % | 77 | 70-130 | Pass | |
| Fluoranthene | B20-Se26792 | NCP | % | 82 | 70-130 | Pass | |
| Fluorene | B20-Se26792 | NCP | % | 72 | 70-130 | Pass | |
| Indeno(1,2,3-cd)pyrene | B20-Se26792 | NCP | % | 77 | 70-130 | Pass | |
| Naphthalene | B20-Se26792 | NCP | % | 77 | 70-130 | Pass | |
| Phenanthrene | B20-Se26792 | NCP | % | 71 | 70-130 | Pass | |
| Pyrene | B20-Se26792 | NCP | % | 84 | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---------------|-----------|-------|----------|--|-------------------|-------------|-----------------|
| Heavy Metals | | | | Result 1 | | | | |
| Barium | M20-Se33972 | NCP | % | 21 | | 75-125 | Fail | Q08 |
| Beryllium | M20-Se33972 | NCP | % | 95 | | 75-125 | Pass | |
| Cobalt | M20-Se33972 | NCP | % | 95 | | 75-125 | Pass | |
| Manganese | M20-Se33972 | NCP | % | 133 | | 75-125 | Fail | Q08 |
| Spike - % Recovery | | | | | | | | |
| | | | | Result 1 | | | | |
| Cyanide (total) | M20-Se33226 | NCP | % | 80 | | 70-130 | Pass | |
| Fluoride (Total) | M20-Se04016 | NCP | % | 69 | | 70-130 | Fail | Q08 |
| Spike - % Recovery | | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | Result 1 | | | | |
| TRH C6-C9 | M20-Se35617 | NCP | % | 116 | | 70-130 | Pass | |
| TRH C10-C14 | M20-Se33106 | NCP | % | 85 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Volatile Organics | | | | Result 1 | | | | |
| 1.1-Dichloroethene | M20-Se33697 | NCP | % | 87 | | 70-130 | Pass | |
| 1.1.1-Trichloroethane | M20-Se33697 | NCP | % | 71 | | 70-130 | Pass | |
| 1.2-Dichlorobenzene | M20-Se33697 | NCP | % | 113 | | 70-130 | Pass | |
| 1.2-Dichloroethane | M20-Se33697 | NCP | % | 95 | | 70-130 | Pass | |
| Benzene | M20-Se33697 | NCP | % | 86 | | 70-130 | Pass | |
| Ethylbenzene | M20-Se33697 | NCP | % | 119 | | 70-130 | Pass | |
| m&p-Xylenes | M20-Se33697 | NCP | % | 114 | | 70-130 | Pass | |
| o-Xylene | M20-Se33697 | NCP | % | 111 | | 70-130 | Pass | |
| Toluene | M20-Se33697 | NCP | % | 87 | | 70-130 | Pass | |
| Trichloroethene | M20-Se33697 | NCP | % | 98 | | 70-130 | Pass | |
| Xylenes - Total* | M20-Se33697 | NCP | % | 113 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | Result 1 | | | | |
| Naphthalene | M20-Se33697 | NCP | % | 91 | | 70-130 | Pass | |
| TRH C6-C10 | M20-Se35617 | NCP | % | 112 | | 70-130 | Pass | |
| TRH >C10-C16 | M20-Se33106 | NCP | % | 84 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | | |
| Bifenthrin | M20-Se29740 | NCP | % | 89 | | 70-130 | Pass | |
| Chlordanes - Total | M20-Se29740 | NCP | % | 119 | | 70-130 | Pass | |
| 4.4'-DDD | M20-Se29740 | NCP | % | 110 | | 70-130 | Pass | |
| 4.4'-DDE | M20-Se29740 | NCP | % | 99 | | 70-130 | Pass | |
| 4.4'-DDT | M20-Se29740 | NCP | % | 88 | | 70-130 | Pass | |
| a-BHC | M20-Se29740 | NCP | % | 97 | | 70-130 | Pass | |
| Aldrin | M20-Se29740 | NCP | % | 93 | | 70-130 | Pass | |
| b-BHC | M20-Se29740 | NCP | % | 127 | | 70-130 | Pass | |
| d-BHC | M20-Se29740 | NCP | % | 87 | | 70-130 | Pass | |
| Dieldrin | M20-Se29740 | NCP | % | 106 | | 70-130 | Pass | |
| Endosulfan I | M20-Se29740 | NCP | % | 109 | | 70-130 | Pass | |
| Endosulfan II | M20-Se29740 | NCP | % | 109 | | 70-130 | Pass | |
| Endosulfan sulphate | M20-Se29740 | NCP | % | 114 | | 70-130 | Pass | |
| Endrin | M20-Se29740 | NCP | % | 117 | | 70-130 | Pass | |
| Endrin aldehyde | M20-Se29740 | NCP | % | 125 | | 70-130 | Pass | |
| Endrin ketone | M20-Se29740 | NCP | % | 111 | | 70-130 | Pass | |
| g-BHC (Lindane) | M20-Se29740 | NCP | % | 106 | | 70-130 | Pass | |
| Heptachlor | M20-Se29740 | NCP | % | 83 | | 70-130 | Pass | |
| Heptachlor epoxide | M20-Se29740 | NCP | % | 120 | | 70-130 | Pass | |
| Methoxychlor | M20-Se29740 | NCP | % | 77 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Polychlorinated Biphenyls | | | | Result 1 | | | | | |
| Aroclor-1016 | M20-Se33177 | NCP | % | 88 | | | 70-130 | Pass | |
| Aroclor-1260 | M20-Se33177 | NCP | % | 95 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Acid Herbicides | | | | Result 1 | | | | | |
| Actril (loxynil) | M20-Se31456 | NCP | % | 80 | | | 70-130 | Pass | |
| Dichlorprop | M20-Se31456 | NCP | % | 78 | | | 70-130 | Pass | |
| MCPA | M20-Se31456 | NCP | % | 71 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Phenols (Halogenated) | | | | Result 1 | | | | | |
| 2-Chlorophenol | M20-Se33181 | NCP | % | 72 | | | 30-130 | Pass | |
| 2,4-Dichlorophenol | M20-Se33181 | NCP | % | 91 | | | 30-130 | Pass | |
| 2,4,5-Trichlorophenol | M20-Se33181 | NCP | % | 125 | | | 30-130 | Pass | |
| 2,4,6-Trichlorophenol | M20-Se33181 | NCP | % | 75 | | | 30-130 | Pass | |
| 2,6-Dichlorophenol | M20-Se33181 | NCP | % | 96 | | | 30-130 | Pass | |
| 4-Chloro-3-methylphenol | M20-Se33181 | NCP | % | 73 | | | 30-130 | Pass | |
| Pentachlorophenol | M20-Se33181 | NCP | % | 63 | | | 30-130 | Pass | |
| Tetrachlorophenols - Total | M20-Se33181 | NCP | % | 114 | | | 30-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Phenols (non-Halogenated) | | | | Result 1 | | | | | |
| 2-Cyclohexyl-4,6-dinitrophenol | B20-Se26827 | NCP | % | 58 | | | 30-130 | Pass | |
| 2-Methyl-4,6-dinitrophenol | M20-Se33181 | NCP | % | 57 | | | 30-130 | Pass | |
| 2-Methylphenol (o-Cresol) | M20-Se33181 | NCP | % | 76 | | | 30-130 | Pass | |
| 2-Nitrophenol | M20-Se33181 | NCP | % | 89 | | | 30-130 | Pass | |
| 2,4-Dimethylphenol | M20-Se33181 | NCP | % | 113 | | | 30-130 | Pass | |
| 2,4-Dinitrophenol | B20-Se26827 | NCP | % | 77 | | | 30-130 | Pass | |
| 3&4-Methylphenol (m&p-Cresol) | M20-Se33181 | NCP | % | 75 | | | 30-130 | Pass | |
| 4-Nitrophenol | M20-Se33181 | NCP | % | 107 | | | 30-130 | Pass | |
| Dinoseb | M20-Se33181 | NCP | % | 94 | | | 30-130 | Pass | |
| Phenol | M20-Se33181 | NCP | % | 74 | | | 30-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| | | | | Result 1 | | | | | |
| Chromium (hexavalent) | M20-Se33604 | CP | % | 94 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | | | |
| Hexachlorobenzene | M20-Se29740 | NCP | % | 83 | | | 70-130 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Duplicate | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Acenaphthylene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Anthracene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benz(a)anthracene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(a)pyrene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(b&j)fluoranthene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(g,h,i)perylene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(k)fluoranthene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chrysene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dibenz(a,h)anthracene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluoranthene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluorene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Indeno(1,2,3-cd)pyrene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Naphthalene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Phenanthrene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Pyrene | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |

| Duplicate | | | | | | | | |
|--|-------------|-----|----------|----------|----------|------|-----|------|
| Phenols (Halogenated) | | | | Result 1 | Result 2 | RPD | | |
| 2-Chlorophenol | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 2,4-Dichlorophenol | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 2,4,5-Trichlorophenol | M20-Se33600 | CP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| 2,4,6-Trichlorophenol | M20-Se33600 | CP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| 2,6-Dichlorophenol | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 4-Chloro-3-methylphenol | M20-Se33600 | CP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| Pentachlorophenol | M20-Se33600 | CP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| Tetrachlorophenols - Total | M20-Se33600 | CP | mg/kg | < 10 | < 10 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Phenols (non-Halogenated) | | | | Result 1 | Result 2 | RPD | | |
| 2-Cyclohexyl-4,6-dinitrophenol | M20-Se33600 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass |
| 2-Methyl-4,6-dinitrophenol | M20-Se33600 | CP | mg/kg | < 5 | < 5 | <1 | 30% | Pass |
| 2-Methylphenol (o-Cresol) | M20-Se33600 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| 2-Nitrophenol | M20-Se33600 | CP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| 2,4-Dimethylphenol | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 2,4-Dinitrophenol | M20-Se33600 | CP | mg/kg | < 5 | < 5 | <1 | 30% | Pass |
| 3&4-Methylphenol (m&p-Cresol) | M20-Se33600 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass |
| 4-Nitrophenol | M20-Se33600 | CP | mg/kg | < 5 | < 5 | <1 | 30% | Pass |
| Dinoseb | M20-Se33600 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass |
| Phenol | M20-Se33600 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | M20-Se33601 | CP | mg/kg | 35 | 45 | 25 | 30% | Pass |
| Barium | M20-Se33601 | CP | mg/kg | 37 | 27 | 31 | 30% | Fail |
| Beryllium | M20-Se33601 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Cadmium | M20-Se33601 | CP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass |
| Chromium | M20-Se33601 | CP | mg/kg | 24 | 27 | 13 | 30% | Pass |
| Cobalt | M20-Se33601 | CP | mg/kg | 6.0 | 6.9 | 13 | 30% | Pass |
| Copper | M20-Se33601 | CP | mg/kg | 6.0 | 5.7 | 6.0 | 30% | Pass |
| Lead | M20-Se33601 | CP | mg/kg | 33 | 33 | <1 | 30% | Pass |
| Manganese | M20-Se33601 | CP | mg/kg | 56 | 48 | 16 | 30% | Pass |
| Mercury | M20-Se33601 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Molybdenum | M20-Se33601 | CP | mg/kg | < 5 | < 5 | <1 | 30% | Pass |
| Nickel | M20-Se33601 | CP | mg/kg | 11 | 14 | 23 | 30% | Pass |
| Selenium | M20-Se33601 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Silver | M20-Se33601 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass |
| Tin | M20-Se33601 | CP | mg/kg | < 10 | < 10 | <1 | 30% | Pass |
| Zinc | M20-Se33601 | CP | mg/kg | 40 | 39 | 3.0 | 30% | Pass |
| Duplicate | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | |
| Chromium (hexavalent) | M20-Se33601 | CP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| Cyanide (total) | M20-Se33182 | NCP | mg/kg | < 5 | < 5 | <1 | 30% | Pass |
| Fluoride (Total) | M20-Au47712 | NCP | mg/kg | 150 | 250 | 47 | 30% | Fail |
| pH (1:5 Aqueous extract at 25°C as rec.) | M20-Se35294 | NCP | pH Units | 8.8 | 8.8 | pass | 30% | Pass |
| Duplicate | | | | | | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | | | | Result 1 | Result 2 | RPD | | |
| TRH C6-C9 | M20-Se33618 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass |
| TRH C10-C14 | M20-Se33182 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass |
| TRH C15-C28 | M20-Se33182 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass |
| TRH C29-C36 | M20-Se33182 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Volatile Organics | | | | Result 1 | Result 2 | RPD | | |
| Hexachlorobutadiene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |

| Duplicate | | | | | | | | |
|-----------------------------|-------------|-----|-------|----------|----------|-----|-----|------|
| Volatile Organics | | | | Result 1 | Result 2 | RPD | | |
| 1.1-Dichloroethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.1-Dichloroethene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.1.1-Trichloroethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.1.1.2-Tetrachloroethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.1.2-Trichloroethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.1.2.2-Tetrachloroethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.2-Dibromoethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.2-Dichlorobenzene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.2-Dichloroethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.2-Dichloropropane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.2.3-Trichloropropane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.2.4-Trimethylbenzene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.3-Dichlorobenzene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.3-Dichloropropane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.3.5-Trimethylbenzene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 1.4-Dichlorobenzene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 2-Butanone (MEK) | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 2-Propanone (Acetone) | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 4-Chlorotoluene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 4-Methyl-2-pentanone (MIBK) | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Allyl chloride | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Benzene | M20-Se33618 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Bromobenzene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Bromochloromethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Bromodichloromethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Bromoform | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Bromomethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Carbon disulfide | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Carbon Tetrachloride | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Chlorobenzene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Chloroethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Chloroform | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Chloromethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| cis-1.2-Dichloroethene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| cis-1.3-Dichloropropene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Dibromochloromethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Dibromomethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Dichlorodifluoromethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Ethylbenzene | M20-Se33618 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Iodomethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Isopropyl benzene (Cumene) | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| m&p-Xylenes | M20-Se33618 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Methylene Chloride | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| o-Xylene | M20-Se33618 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| Styrene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Tetrachloroethene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Toluene | M20-Se33618 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| trans-1.2-Dichloroethene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| trans-1.3-Dichloropropene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Trichloroethene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Trichlorofluoromethane | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Vinyl chloride | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| Xylenes - Total* | M20-Se33618 | NCP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass |

| Duplicate | | | | | | | | |
|--|-------------|-----|-------|----------|----------|-----|-----|------|
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | | | | Result 1 | Result 2 | RPD | | |
| Naphthalene | M20-Se33618 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| TRH C6-C10 | M20-Se33618 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass |
| TRH >C10-C16 | M20-Se33182 | NCP | mg/kg | < 50 | < 50 | <1 | 30% | Pass |
| TRH >C16-C34 | M20-Se33182 | NCP | mg/kg | < 100 | < 100 | <1 | 30% | Pass |
| TRH >C34-C40 | M20-Se33182 | NCP | mg/kg | < 100 | < 100 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Bifenthrin | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Chlordanes - Total | M20-Se33177 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass |
| 4,4'-DDD | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| 4,4'-DDE | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| 4,4'-DDT | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| a-BHC | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Aldrin | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| b-BHC | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| d-BHC | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Dieldrin | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan I | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan II | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endosulfan sulphate | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin aldehyde | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Endrin ketone | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| g-BHC (Lindane) | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Heptachlor | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Heptachlor epoxide | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Hexachlorobenzene | M20-Se26087 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Methoxychlor | M20-Se33177 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Toxaphene | M20-Se28926 | NCP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Chlorinated Hydrocarbons | | | | Result 1 | Result 2 | RPD | | |
| 1,2,4-Trichlorobenzene | M20-Se26087 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | |
| Chlorpyrifos | M20-Se33177 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Triazines | | | | Result 1 | Result 2 | RPD | | |
| Atrazine | M20-Se33177 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Phenols (Halogenated) | | | | Result 1 | Result 2 | RPD | | |
| 2-Chlorophenol | M20-Se33177 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 2,4-Dichlorophenol | M20-Se33177 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 2,4,5-Trichlorophenol | M20-Se33177 | NCP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| 2,4,6-Trichlorophenol | M20-Se33177 | NCP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| 2,6-Dichlorophenol | M20-Se33177 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass |
| 4-Chloro-3-methylphenol | M20-Se33177 | NCP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| Pentachlorophenol | M20-Se33177 | NCP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |
| Tetrachlorophenols - Total | M20-Se33177 | NCP | mg/kg | < 10 | < 10 | <1 | 30% | Pass |
| Duplicate | | | | | | | | |
| Phenols (non-Halogenated) | | | | Result 1 | Result 2 | RPD | | |
| 2-Cyclohexyl-4,6-dinitrophenol | M20-Se33177 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass |
| 2-Methyl-4,6-dinitrophenol | M20-Se33177 | NCP | mg/kg | < 5 | < 5 | <1 | 30% | Pass |
| 2-Methylphenol (o-Cresol) | M20-Se33177 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass |
| 2-Nitrophenol | M20-Se33177 | NCP | mg/kg | < 1 | < 1 | <1 | 30% | Pass |

| Duplicate | | | | | | | | | |
|----------------------------------|-------------|-----|-------|----------|----------|-----|-----|------|--|
| Phenols (non-Halogenated) | | | | Result 1 | Result 2 | RPD | | | |
| 2,4-Dimethylphenol | M20-Se33177 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 2,4-Dinitrophenol | M20-Se33177 | NCP | mg/kg | < 5 | < 5 | <1 | 30% | Pass | |
| 3&4-Methylphenol (m&p-Cresol) | M20-Se33177 | NCP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| 4-Nitrophenol | M20-Se33177 | NCP | mg/kg | < 5 | < 5 | <1 | 30% | Pass | |
| Dinoseb | M20-Se33177 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| Phenol | M20-Se33177 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Duplicate | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | M20-Se33607 | CP | % | 14 | 13 | 2.0 | 30% | Pass | |