# **Risk Assessment Report – Glenlyon Recreation Reserve**

### Suttons Lane, Glenlyon, Victoria 3461

### 20220348.001A 27 April 2022





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### 1 INTRODUCTION

Kleinfelder Australia Pty Ltd (Kleinfelder) was engaged by Hepburn Shire Council (Council) to prepare a risk assessment report for the Glenlyon Recreation Reserve, Suttons Lane Glenlyon, Victoria (hereafter referred to as the Site).

This risk assessment is a response to the amended clean up notice (CUN) – Notice ID 90011425, issued to the Council on 24 May 2021 by the Environment Protection Authority (EPA) Victoria and follows the clean-up plan (CUP) previously prepared by Kleinfelder<sup>1</sup>. This report includes the findings of additional soil and surface water data collected for the Site to assess the potential risk to the environment and human health in relation to the Site's historical use for clay target shooting.

<sup>1</sup> Kleinfelder 2021, Clean-Up Plan – Glenlyon Recreation Reserve



### 2 OBJECTIVE

The objectives of the risk assessment were to:

- Assess the potential risks to ecosystems and human health of recreational users associated with the Site's historical use for clay target shooting.
- Evaluate the potential impacts to human health associated with polycyclic aromatic hydrocarbon (PAH) compounds identified in shallow soils and to refine the site-specific target level (SSTL) based on the ongoing recreational use of the Site.

#### 2.1 RISK ASSESSMENT APPROACH

The risk assessment methodology was conducted in accordance with the Australian National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013, referred to hereafter as the NEPM. The specific provisions within the NEPM are:

- Guideline on Investigation Levels for Soil and Groundwater, Schedule B1
- Guideline on Site-Specific Health Risk Assessment Methodology, Schedule B4
- Guideline on Derivation Health-Based Investigation Levels, Schedule B7
- Additional international resources have been used as appropriate, which include the following:
  - Interstate Technology Regulatory Council, 2005. Environmental management at operating outdoor small arms firing ranges.
  - Lobb, A., 2006. Potential for PAH contamination from clay target debris at shooting sites: Review of literature on occurrence of site contamination from clay targets. Report U06/81.
  - Baer, K.N. et al., 1995. Toxicity evaluation of trap and skeet shooting targets to aquatic test species. Ecotoxicology, 4, 385-392.
  - Gonzalez, G.R., 2003. Contaminants at a shooting range: Toxicological and nutritional significance to birds and mammals. Masters Thesis, Virginia Polytechnic Institute and State University.
  - Forsberg, N.D., et al., 2021. Oral and dermal bioavailability studies of polycyclic aromatic hydrocarbons from soils containing weathered fragments of clay shooting targets. Environmental Science and Technology, 55, 6897-6906.

The methodology adopted to develop the SSTL is detailed further in **Section 7** below. Data used in this risk assessment is taken from the previous environmental investigations completed at the Site between 2019 and July 2021, complemented with further soil and surface water data collected by Kleinfelder in December 2021.



### 3 BACKGROUND

#### 3.1 SITE DESCRIPTION

#### Site details are summarised in Table 3.1 below.

#### Table 3.1:Site Details

| Item                       | Details   |
|----------------------------|---|
| Site Address               | Suttons Lane, Glenlyon VIC 3461   |
| Standard Parcel Identifier | 5~48\PP5324   |
| Site Use                   | Local recreation reserve  |
| Site Area                  | 21 hectares (approximately)   |
| Site Zoning                | Public Park and Recreation (PPRZ)   |
| Local Council              | Hepburn Shire   |
| Site Features              | An oval shaped racecourse circling an area of approximately 8.1 hectares<br>encompassing a sports oval (the Des Leonard Oval), surrounded by a sports pavilion,<br>toilet block, storage shed, barbeque and children's playground areas, camping and<br>horse-riding/equestrian facilities. |

#### 3.2 SITE USES/USERS

#### 3.2.1 Site Uses

The following Site uses include:

- Clay target shooting:
  - Commenced on-site circa 1979 and was generally held on the first Saturday of each month
  - Council requested that the Daylesford Field and Game Association Inc halt this activity in 2020 due to
    potential human health risks resulting from clay target fragments (PAH compounds and residual lead
    shot)
- Equestrian (including dressage, racing/training circuit, cross country and horse trial events) held within the main fenced area of the oval/racecourse area
- Recreational park, including:
  - Sporting events (e.g. cricket)
  - Dog walking
  - General exercise
  - Horse training
  - Push bikes
  - BBQ and children's playground areas to the south of the oval/racecourse area
  - Camping
  - Public toilet facilities
- Open space for public events held intermittently throughout the year



#### 3.2.2 Site Users

Based on the information provided by Council, it is understood that the Site users include:

- Clay target shooters:
  - Based on the information provided, it is proposed that this activity will recommence again once per month on a scheduled day (Sunday)
  - Public access is restricted during shooting events, with spectators observing from the boundary fences surrounding the oval/racecourse area
- Horse riders:
  - Public access is restricted during events, with spectators observing from the boundary fences surrounding the oval/racecourse area
- General recreational users of all ages (including campers, dog walkers, exercise enthusiasts, people who play sport, bike riders)

Further information regarding the expected exposure frequencies of Site users is included in **Section 7.3.3** below.

#### 3.3 SURROUNDING LAND USE

The surrounding land use is summarised in **Table 3.2** below.

#### Table 3.2:Surrounding Land Use

| Direction | Description   |
|-----------|---|
| North     | Agricultural land   |
| East      | Agricultural land   |
| South     | Agricultural land, public conservation areas, residential properties, Loddon River and the Glenlyon Community Dam |
| West      | Public conservation areas, residential properties, Loddon River and Glenlyon township                             |

#### 3.4 TOPOGRAPHY AND HYDROLOGY

Glenlyon is located in the Victorian West Central Highlands where the local elevation ranges from approximately 540 mAHD<sup>2</sup> at the Site to 685 mAHD, approximately 1.7 km to the Site's east. Glenlyon is situated at an elevation of approximately 575 mAHD, indicating that the Site is at a topographical low point.

The Loddon River, which forms the Site's southwestern boundary is the predominant surface water feature in the area. There are multiple unnamed tributaries flowing into the Loddon River in the regional area, including a creek that traverses the Site's southern boundary.

The northern boundary of the Site slopes down towards the middle (i.e. the drainage area), by approximately 20 m, and the surface elevation increases between the drainage area and the southern boundary of the Site by approximately 5 m toward the Loddon River.

The racecourse interior is grassed with a sparse tree cover, whereas the exterior areas are grassed with denser tree cover. Surface water overland flow within the racecourse area is controlled by an earthen spoon drain network that channels the water into a shallow water retention pond, located near the western boundary on the racecourse interior, from which overflowing water is discharged to the Loddon River through an earthen spoon drain.

<sup>&</sup>lt;sup>2</sup> mAHD – metres relative to the Australian Height Datum



### 3.5 GEOLOGY

The geological and hydrogeological review identified that the Site is located in a reasonably complex area with extensive basalt and partially mineralised siltstone located to the north and west, and east and south, respectively. The Site itself occupies an area of recent alluvium/colluvium accumulation on the eastern bank of the Loddon River.

The regional surface geology<sup>3</sup> (refer to **Figure 3.1** below) is dominated by the folded and faulted Early to Middle Ordovician<sup>4</sup> Castlemaine Formation made up of thickly bedded marine sandstones, mudstones and shales, with rarer conglomerates to the Site's south and east. Overlying the Castlemaine Formation are Late Miocene to Holocene<sup>5</sup> Newer Volcanic Group basalts to the west and north, of which there are five known basalt eruption points within 2.7 km of the Site. The fluvial Eocene to Pliocene<sup>6</sup> Calivil Formation clays, silts, sands and conglomerates underlie the basalts and as these sediments are not known at high elevations it is probable that they were deposited by the ancient Loddon River, prior to basalt filling the river valley.

The Site surface geology is mapped as Pleistocene to Holocene<sup>7</sup> unconsolidated terrace/alluvial gravels, sands and silts, which based on the geological map overlie the Castlemaine Formation. These sediments are likely to comprise alluvium, derived from the Loddon River and colluvium derived from the higher elevation Castlemaine Formation and Newer Volcanic Group rocks surrounding the Site. It is considered likely that the alluvial sediments were deposited when the Loddon River was temporarily dammed on multiple occasions by basalt. The Daylesford-Glenlyon Lead beneath the basalt marks the approximate palaeo-Loddon River channel.

Deep leads formed when basalt flows filled river valleys, hence the leads are essentially palaeo-alluvial deposits, some of which contain gold. Primary gold mineralisation is associated with regional hydrothermal alteration of the Ordovician sediments that resulted in quartz veining with minor sulfide (pyrite, arsenopyrite, chalcopyrite, sphalerite and galena) and iron carbonate<sup>8</sup> precipitation. While Glenlyon is not within a historical gold producing area, the Ordovician rocks up-topographic gradient from the Site are described "*micaceous sandstones intersected by quartz veins*"<sup>9</sup>, hence the rocks have been hydrothermally altered and associated sulfides are to be expected.

<sup>&</sup>lt;sup>3</sup> From gsv.vic.gov.au/sd\_weave

<sup>&</sup>lt;sup>4</sup> Early to middle Ordovician marine sediments deposited between 485 and 460 million years before present.

<sup>&</sup>lt;sup>5</sup> Late Miocene to Holocene basalts were erupted between 8.5 million and 5,000 years before present.

<sup>&</sup>lt;sup>6</sup> Eocene to Pliocene fluvial sediments deposited between approximately 50 and 5 million years before present.

<sup>&</sup>lt;sup>7</sup> Pleistocene to Holocene terrace sediments deposited between 2.5 million years and the present.

<sup>&</sup>lt;sup>8</sup> Phillips, G.N., et al. 2003. Gold. In Birch, W.D. (editor) Geology of Victoria. Pp. 377-433.

<sup>&</sup>lt;sup>9</sup> Geological Survey of Victoria., undated. Quarter Sheet 10 NW. 40 chains to 1 inch, geological map. Department of Mines, Victoria.



Bore logs<sup>10</sup> for wells within Glenlyon suggest the basalt is up to 60 metres thick (WRK009922) and thins toward the margins, to less than 20 metres thick. Bore 65296, to the Site's west, across the Loddon River intersected 12 m of basalt, cemented wash (a general term for cemented gravel sediment derived from nearby hills) to 22 metres below ground level (mbgl) and sandstone to 24 mbgl. Located near the Site's western boundary the 260 m deep Jet Bore log (Bore 65272, the Site mineral water well) indicates that clay and sandstone are present to 20 metres depth beneath which are sandstones and shales with quartz intervals, supporting the earlier observation that hydrothermal alteration is prevalent in the area.

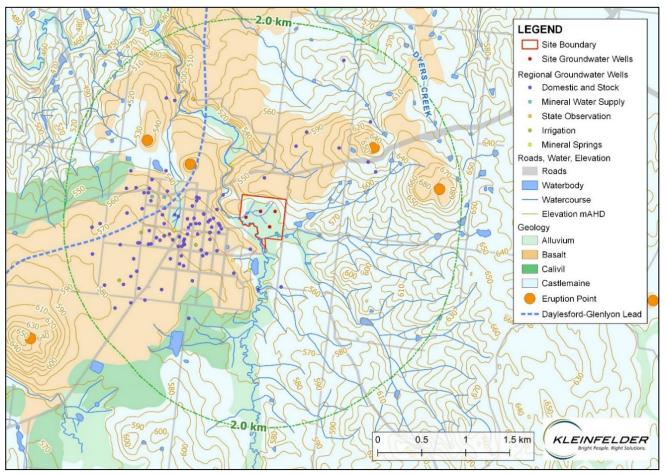


Figure 3.1: Map showing the Site location, regional geology (1:50,000 GSV interpretation), regional groundwater monitoring wells, elevation and surface water features

#### 3.6 PREVIOUS SOIL / SURFACE WATER SAMPLING

A preliminary soil contamination assessment (PSCA), which included a desktop review, site inspection and soil contamination assessment was previously undertaken by Beveridge Williams<sup>11</sup>. The PSCA concluded that the Site contained lead and PAH impacts from the recreational shooting activities that may pose a potential health risk to Site users. The PSCA recommended limiting access to the Site to prevent health and environmental impacts from the identified contamination and further detailed soil and groundwater assessment for ongoing operation and management of the Site.

The EPA issued a CUN (90010886) for the Site on 31 January 2020, which required the Council to address imminent risks to human health and environment from the clay target shooting activity at the Site and undertake a detailed site investigation (DSI) to identify the level and extent of contamination in soil and groundwater on and from the Site. Kleinfelder<sup>12</sup> was engaged to undertake a DSI to satisfy the requirements of the CUN 90010886.

<sup>&</sup>lt;sup>10</sup> Available from bom.gov.au

<sup>&</sup>lt;sup>11</sup> Beveridge Williams, 2019. Preliminary Soil Contamination Assessment, Glenlyon Reserve, Suttons Lane, Glenlyon <sup>12</sup> Kleinfelder, 2020. Detailed Site Investigation, Glenlyon Recreation Reserve, Suttons Lane, Glenlyon, Victoria



Details of the previous investigations undertaken at the Site in relation to soil, groundwater and surface water are included in the following sections.

#### 3.6.1 Soil

Kleinfelder completed a DSI for the Site that included advancing 55 soil bores in an unbiased grid formation in the target shooting shot and clay-bitumen target fall zones. Beveridge and Williams (2019) had previously collected 30 surface soil samples targeting the six target launch areas and centrally where elevated lead concentrations were previously identified during X-ray fluorescence (XRF) preliminary screening. The previous sample locations are shown on **Figure 1** (attached).

The screening criteria applicable as per the NEPM has been adopted to assess the Site for the ongoing land use scenario as a recreation reserve includes the following:

- Ecological investigation/screening level (EIL/ESL) for a public open space.
- Health investigation/screening levels HIL/HSL C for public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths.

Of the 85 surface samples analysed from within the racecourse/oval grid, the following exceedances of the Tier 1 HIL C were reported:

- Lead two surface samples collected by Beveridge and Williams (SS28 and SS29)
- Benzo(a)pyrene toxicity equivalent quotient (BaP TEQ) for the following samples:
  - Eight surface samples collected by Beveridge and Williams, including:
    - o SS01
    - o SS03
    - o SS04
    - o SS11
    - o SS13
    - o SS15
    - o SS17
    - o **SS27**
    - o **SS28**
    - o SS29
  - Two surface samples collected by Kleinfelder (OG26\_0.1 and OG42\_0.1)
- Total PAH one surface sample collected by Beveridge and Williams (SS15)

Based on the proportion of Beveridge Williams samples exceeding HIL C being greater than the Kleinfelder collected samples, it was considered that target fragments are likely to have been included within the Beveridge Williams samples especially as the sample locations targeted the target launch areas.

In order to verify these elevated results reported by Beveridge Williams dataset, Kleinfelder completed further soil sampling at select locations across the Site. Further details of the additional soil sampling completed is included in **Section 4.1** below.

Samples underlying the surface samples, which reported the highest concentrations of lead and PAH compounds were analysed and included the following: OG11\_0.5, OG13\_0.7, OG14\_0.5, OG15\_0.7, OG16\_0.4, OG20\_0.4, OG24\_0.5, OG25\_1.0, OG26\_0.4, OG36\_0.6, OG42\_0.4, OG49\_0.5 and OG53\_0.5. The concentrations of lead reported for these samples ranged from 11 – 50 mg/kg, with concentrations of PAH compounds all less than the laboratory limit of reporting (LOR). Based on the concentrations reported in the samples analysed from below the surface samples (i.e. those samples analysed that were collected from depths of 0.4, 0.5, 0.7 and 1.0 mbgl), no evidence of lead and BaP migration through the soil profile was observed.



Kleinfelder also completed soil sampling and analysis in other areas of the Site, which included the barbecue area (samples BS01 to BS11), children's playground (samples PG01 to PG05), camping area (samples CG01 to CG12), mounting yard area (samples MY01 to MY05), pavilion (samples PV01 to PV10), eastern and south-eastern fence lines (samples FB01 to FB05) and neighbouring properties to the north, east and west of the Site (SB01 to SB14). The concentrations of PAH and lead were all below the adopted human health and ecological criteria, which demonstrates that the contamination associated with shooting activities at the Site is confined to the oval/racecourse area, with no exceedances reported in other areas of the Site where soil sampling was completed.

Refer to **Figures 2** and **3** attached showing the sample locations where the concentrations exceeded HIL C. The results from the previous soil assessments completed at the Site are provided in **Tables 1** to **8** (attached).

A statistical evaluation of the lead. BaP TEQ, total PAH and BaP surface data was completed to assess whether the results met the criteria outlined in Schedule B1 of the NEPM. The soil samples collected as part of the wider investigation across other areas of the Site were not included in this statistical analysis.

Following statistical evaluation of the dataset it was determined that:

- The concentrations of lead in soil do not exceed the Tier 1 NEPM HIL C or EIL
- The concentration of BaP TEQ in seven soil samples exceed 250% of the Tier 1 NEPM HIL C
- The concentration of PAH in one soil sample exceed 250% of the Tier 1 NEPM HIL C

#### 3.6.2 Groundwater

Four groundwater monitoring wells were installed into alluvium/colluvium adjacent to (MW01) and within (MW02 to MW04) the racecourse area (refer to **Figure 5** attached showing the well locations. During the first groundwater monitoring event (GME) completed at the Site in April 2020, dissolved lead was reported below the laboratory LOR in all samples; however concentrations of dissolved metals (including copper, nickel and zinc) exceeded the water dependent ecosystems and species (WDES) screening criteria<sup>13</sup>. Dissolved nickel concentrations were also reported above the drinking water screening criteria<sup>14</sup>. Very low concentrations of PAH compounds (fluorene and phenanthrene) were reported at or slightly above the laboratory LOR, however these compounds are not known to be carcinogenic and therefore do not exceed the screening criteria.

In a sample collected from the Site's mineral water well, all dissolved metals (associated with the anthropogenic Site use and metals identified in groundwater) were below the laboratory LOR and hence below the screening criteria. This result is consistent with the mineral water source being significantly below the surficial alluvial aquifer.

A second GME was completed on 27 July 2021 for the four groundwater monitoring wells previously installed at the Site (MW01, MW02, MW03 and MW04). Reported dissolved metals concentrations were generally consistent with the April 2020 GME. Copper, nickel and zinc concentrations exceeded the adopted criteria applicable to WDES in all groundwater samples analysed and drinking water screening criteria in MW03. Nickel concentrations reported in groundwater from MW02 and MW04 in April 2020 exceeded both the adopted water dependent ecosystems and species (95% freshwater) screening criteria and drinking water screening criteria.

A concentration of dissolved lead was reported at MW04 slightly above the laboratory LOR but was less than the applicable criteria. The dissolved lead concentration at MW04 indicates that there is the potential for leaching to have occurred from the overlying surface soils, however, this appears to be limited and has not resulted in groundwater concentrations being reported above the relevant objectives for applicable environmental values. It is considered that the higher lead concentration is likely associated with the higher water table, which was observed during the second GME, where the groundwater is likely to have come into contact with shallower soils comprising higher lead concentrations.

 <sup>&</sup>lt;sup>13</sup> Australian and New Zealand Environment and Conservation Council and the Agriculture and Resource Management Council of Australia and New Zealand, 2000. Australian and New Zealand guidelines for fresh and marine water quality.
 <sup>14</sup> National Health and Medical Research Council, 2011. Australian drinking water guidelines 6. Version 3.5. Updated August 2018.



All PAH compounds were reported below the laboratory LOR. Nutrients, cations/anions, TDS and TSS concentrations were reported below the adopted screening criteria (where relevant) in all groundwater samples, consistent with the April 2020 GME results.

Kleinfelder previously completed a desktop hydrogeological review and develop a hydrogeological conceptual site model (HCSM) for the Site to further understand the relationship between the Site and regional aquifers, with particular reference to the elevated dissolved copper, nickel and zinc concentrations within the Site groundwater<sup>15</sup>. Based on the findings of the desktop hydrogeological review and HCSM, Kleinfelder concluded that the elevated concentrations of dissolved metals (including copper, nickel and zinc) reported in groundwater were considered to be background and not associated with historical clay target shooting activities at the Site.

#### 3.6.3 Surface Water

Two watercourses are present in the southern area of the Site, including the Loddon River running along the southwestern boundary, and an unnamed tributary running through the camping area near the southern reserve boundary. The reserve interior also contains an internal surface water drainage, which includes a holding basin (soak) located near the western boundary, which discharges to the Loddon River. The soak was dry at the time of the Kleinfelder DSI.

The DSI investigation strategy relied on a contamination model where clay target shooting produced large hotspot areas where COPC may be elevated. Low-lying Site areas within the oval/racecourse were not specifically targeted during this investigation, however, sample locations OG46\_0.1 and OG47\_0.1 were located in proximity to the drainage areas within the racecourse area. One soil sample was also collected from the margin of the soak located at the western boundary (OG27\_0.1) where water accumulates prior to discharge to the Loddon River. The concentrations of lead and PAH were all below the laboratory LOR and or applicable criteria at these soil sample locations, supporting the observation that transport within on-Site surface water is unlikely.

In addition, Auditor verification samples were collected targeting a drainage line leading into the soak (sample AV01) and the soak located at the western boundary, which was dry at the time (sample AV02). The concentrations of metals (including lead) and PAH compounds were reported below the laboratory LOR or applicable screening criteria.

The following surface water samples were collected from Loddon River to assess whether metals and PAH impacts associated with surface water runoff were present:

- SW01 collected from Loddon River at the discharge point of the soak located near the western boundary. The sample was considered to be representative of surface waters (and any associated potential contaminants in the soil) discharging from the Site, however, it was noted that no surface water was entering Loddon River at the time of the collection.
- SW02 collected from Loddon River at the at the discharge point of the unnamed tributary running through the camping area near the southern reserve boundary. The sample was considered to be representative of surface waters (and any associated potential contaminants in the soil) discharging from the Site, however, it was noted that no surface water was entering Loddon River at the time of the collection.

Refer to **Figure 4** attached showing the above sample locations.

The concentrations of contaminants were reported below the laboratory LOR or applicable screening criteria, indicating that contaminant surface water transport off-Site is unlikely to be occurring. The results from the previous surface water sampling are provided in **Tables 14** to **16** (attached).

Based on the findings of the surface water sampling completed at the Site, no evidence for migration within surface water was found based on the concentrations of lead reported in the soil samples collected from the drainage lines and soak within the oval/racecourse area and the surface water samples collected from the two discharge points to Loddon River. It was acknowledged, however, that limited water was observed to be discharging at the time of sampling and another round of surface water sampling was recommended to be conducted during a rainfall event to confirm the contamination status of the water discharging to Loddon River.

<sup>&</sup>lt;sup>15</sup> Kleinfelder 2021, Clean-Up Plan – Glenlyon Recreation Reserve



Further details of a second surface water sampling event and assessment of the potential risk to relevant receptors is included in **Section 4.2** below.

#### 3.6.4 Existing Risk Mitigation Strategies

The existing risk management controls previously implement by Council for the Site include:

- Temporary fencing installed over areas of concern associated with contamination previously reported
- Signage updated and installed on temporary fencing and permanent fencing at the entry points to the reserve
- Continued implementation of changed grass mowing so that dust generation is reduced
- Assistance to user groups developing event management plans to ensure contaminated soil is identified as
  risk and control measures are included and implemented
- Monitoring of temporary precautionary measures and during events to ensure controls remain functional and are implemented properly



# 4 FUTHER SOIL AND SURFACE WATER INVESTIGATION

#### 4.1 SOIL

#### 4.1.1 Objective

The objective of collecting additional soil samples was to assess whether similar concentrations to those reported during the Beveridge Williams PSCA can be repeated and whether similar concentrations are widespread at those previous sample locations.

The findings of the additional soil investigation were used to refine the conceptual site model (CSM) for the Site and the risk posed by elevated PAH compounds in soil to users of the Site.

#### 4.1.2 Scope of Work and Methodology

The scope of the soil sampling included the following:

- Advancement of a total of 18 targeted boreholes (i.e. six boreholes per previous location) in a circle approximately 1 m from the following three previous Beveridge Williams soil sample locations where the highest concentrations of PAH compounds were previously reported:
  - SS15
  - SS27
  - SS29
- Collection of 36 primary soil samples using a hand auger to a depth of up to 0.5 metres below ground level (mbgl)
- Collection of clay target fragments (sample labelled S1) and a representative soil sample (sample labelled SW03) at the holding basin (soak) located near the western boundary and submitted for analysis to assess whether the elevated PAHs in soil are associated with clay target fragments
- Submission of collected samples under chain of custody (COC) documentation to a laboratory that has National Association of Testing Authorities (NATA) accreditation for the required analysis.
- Evaluation of analyte concentrations in comparison to the adopted benzo(a)pyrene toxic equivalence quotient (BaP TEQ) SSTL developed for the Site.

Beveridge Williams soil sample locations SS27 and SS29 previously targeted the debris drop zone. Sample location SS15 (which correlated with the highest concentration of BaP TEQ) was collected from one of the six firing areas (described by Beveridge Williams as Area 4).

It is noted that no co-ordinates of the previous Beveridge Williams soil sample locations were provided. These locations were therefore estimated from the supplied figures using geo-information software. The coordinates of the previous Beveridge Williams locations and the additional Kleinfelder targeted sample locations (using Universal Transverse Mercator (UTM), zone 55) are shown below.

- SS15: 256571.3894; 5868861.9946
  - SS15\_1: 256571.3894, 5868862.9946
  - SS15\_2: 256572.2554, 5868862.4946
  - SS15\_3: 256572.2554, 5868861.4946
  - SS15\_4: 256571.3894, 5868860.9946
  - SS15\_5: 256570.5234, 5868861.4946
  - SS15\_6: 256570.5234, 5868862.4946

- Sample location SS27: 256356.9454; 5868727.6323.
  - SS27\_1: 256356.9454, 5868728.6323
  - SS27\_2: 256357.8115, 5868728.1323
  - SS27\_3: 256357.8115, 5868727.1323
  - SS27\_4: 256356.9454, 5868726.6323
  - SS27\_5: 256356.0794, 5868727.1323
  - SS27\_6: 256356.0794, 5868728.1323
- Sample location SS29: 256414.7297; 5868880.2388.
  - SS29\_1: 256414.7297, 5868881.2388
  - SS29\_2: 256415.5957, 5868880.7388
  - SS29\_3: 256415.5957, 5868879.7388
  - SS29\_4: 256414.7297, 5868879.2388
  - SS29\_5: 256413.8637, 5868879.7388
  - SS29\_6: 256413.8637, 5868880.7388
- Sample location SW03/S1: 256224.6803, 5868811.8752

The sample locations are shown in Figure 6 (attached).

A description of the sampling program including the number of samples and analytical suite is outlined in **Table 4.1** below.

| Item          | Details   |
|---------------|---|
| Soil Sampling | <ul> <li>Kleinfelder has performed the soil sampling program using the following methodology:</li> <li>Samples were collected using a decontaminated hand auger and placed directly into appropriate laboratory-supplied sample containers.</li> <li>Samples were collected from the following depths: <ul> <li>Near surface – 0.0-0.1 mbgl</li> <li>Underlying natural soil (0.3-0.4 mbgl)</li> </ul> </li> <li>An additional clay target fragment (sample ID S1) and underlying soil sample was collected at sample location SW03.</li> <li>Soil samples were collected by an environmental scientist/engineer and soil descriptions were recorded.</li> <li>The soil samples were collected by advancing the 75 mm hand auger to the desired depth (i.e. 0.1 and 0.3-0.4 mbgl), the auger was then withdrawn and the remaining soil added to the sample jar.</li> <li>The following samples were collected for quality assurance (QA)/quality control (QC): <ul> <li>1 x blind duplicate</li> <li>1 x rinsate sample taken from re-usable equipment</li> </ul> </li> <li>Samples were chilled in containers for delivery to the analytical laboratories under COC.</li> <li>All re-usable equipment was decontaminated between samples using Decon 90, and fresh nitrile gloves were used for every sample.</li> </ul> |



| ltem                | Details   |  |
|---------------------|---|--|
| Laboratory Analysis | <ul> <li>A total of 19 primary soil samples, collected from the near surface of each sample location have been analysed for PAH compounds.</li> <li>The collected clay target fragment (S1) was crushed and analysed for PAH compounds.</li> <li>A total of two QA/QC samples were analysed for PAH compounds.</li> </ul> |  |

#### 4.1.3 Adopted Soil Criteria

The 2017 Victorian Environment Protection Act (the Act) identifies environmental values that are sought to be achieved or maintained for ambient air, ambient sound, land and water environments. Environmental values are provided in the environmental reference standard<sup>16</sup> (ERS) that applies to each segment of the environment and specifies indicators and objectives to assess whether the environmental values are achieved, maintained or threatened.

The relevant ERS and environmental values based on the Site being zoned as PPRZ include:

- Land dependent ecosystems and species (modified and highly modified ecosystems)
- Human health
- Buildings and structures
- Aesthetics

Soil screening criteria specific for PAH compounds have been established in Schedule B1 of the NEPM. The concentrations of contaminants associated with the Site's historical use for clay target shooting previously reported in the soil were not considered to represent a risk to the above environmental values, with the exception of human health. This was due to the concentrations of BaP TEQ previously reported in the soil. As outlined in the Kleinfelder CUP, however, a SSTL for BaP TEQ was developed using published literature and the specific use of the Site.

Further detail of the SSTL for BaP TEQ that was adopted as part of this risk assessment for the protection of human health is discussed further in **Section 7** below.

#### 4.1.4 Results

The soil profile encountered was generally consistent with the observations made during the previous Kleinfelder DSI and included:

- The borehole locations were all covered with grass.
- A fill layer of brown clayey silt to a depth of up to 0.4 mbgl.
- Natural grown/grey silty clay was observed underlying this fill layer.
- The soil sample collected at SW03 consisted of the same fill material as encountered in the boreholes.

The borehole logs for the sample locations are provided in Appendix A.

Clay target fragments were observed to be present at the surface at the soak (sample location SW03). No clay target fragments were observed at each of the targeted sample locations (SS15\_1 to SS15\_6, SS27\_1 to SS27\_6 and SS29\_1 to SS29\_6). No staining, foreign material or potential asbestos containing material (ACM) was observed in the inspected soil material.

In summary, the analytical result for the soil samples were as follows:

• The concentrations of BaP TEQ reported at each of the sample locations targeting the previous Beveridge Williams locations ranged from less than the laboratory LOR to 26 mg/kg.

<sup>&</sup>lt;sup>16</sup> Victorian Government, 2021. Environment reference standard. Victoria Government Gazette No S 245



- The concentrations exceeded the NEPM HIL C at seven sample locations but were less than the concentrations previously reported.
- The concentration of BaP TEQ reported for the clay target sample was 140 mg/kg.
- All PAH concentrations reported for soil sample SW03\_0.0-0.1, collected at the same location as the clay target sample were below the laboratory LOR.

No samples collected from the underlying natural soil were analysed for PAH. Based on the concentrations reported in the samples previously analysed from the natural soil, however, no evidence of PAH migration through the soil profile was observed.

Soil laboratory results are summarised **Table 4D** (attached). The sample locations are provided on the attached **Figure 6**. Copies of the laboratory certificates of analysis are contained in **Appendix B**.

#### 4.1.5 Discussion

The findings of the additional soil sampling confirmed that the elevated concentrations of PAH compounds (including BaP TEQ) are present in the soil at the Site and are associated with the binding material used in clay targets for recreational shooting. The spatial distribution of contaminants, where the highest concentrations were reported in those sample locations targeting the debris drop zone and firing areas, is consistent with that typically observed at a site used for shooting activities, as reported in the Beveridge Williams PSCA report. Although no visible clay target fragments were observed in the soil at the locations that targeted those locations where the highest concentrations of PAH compounds were previously reported, the results are considered to be due to the clay target fragments present in the soil.

The significantly elevated PAH concentrations are therefore considered to reflect soil samples with entrained clay target fragments and not representative of contamination which has leached from these materials and adsorbed to soil particles. This is further evidenced by the concentration of PAH reported in the soil sample collected at the soak (sample SW03) where a clay target fragment (high in PAH) was observed to be relatively intact. This fragment was likely deposited at this location as a result of surface water flow rather than being associated with the launch/fall of targets and the underlying soil would therefore have been subject to a significant amount of inundation/ potential leaching.

Based on the findings of the additional soil sampling, although isolated to the target drop/launch zone areas, the soil is impacted by carcinogenic PAH compounds and is considered to be associated with historical clay target shooting activities at the Site. As noted previously, based on the findings of a literature review, the bioavailability of carcinogenic PAH compounds in clay targets was considered to be significantly lower and unlikely to represent a risk to human health. This is further discussed further in **Section 7** below.

#### 4.2 SURFACE WATER

#### 4.2.1 Objective

As outlined in the Kleinfelder CUP, it was concluded that there was a need to perform further surface water sampling on-Site to confirm that the concentrations of contaminants of concern (including PAH and dissolved metals) are below the applicable screening criteria following a period of higher rainfall.

#### 4.2.2 Scope of Work and Methodology

The scope of work included the following:

- Collection of surface water samples at representative locations on-Site and off-Site.
- Submission of collected samples under COC documentation to a laboratory NATA accredited for the required analysis.
- Evaluation of analyte concentrations in accordance with adopted screening criteria appropriate for the Site.
- Comparison of analyte concentrations to previous data collected.



A description of the sampling program including the number of sampling locations and analytical suite is outlined in **Table 4.2** below.

| ltem                              | Details   |  |  |  |
|-----------------------------------|---|--|--|--|
| Item<br>Surface Water<br>Sampling | <ul> <li>Kleinfelder collected surface water samples from the following locations:</li> <li>Samples at location SW1 were collected from an accessible location at the bank of the Loddon River approximately 2 m upstream and 2 m downstream from the entry point, respectively (SW1_1 and SW1_2). It was noted that no water was flowing from the Site to this discharge point during sampling and no sample could be collected in the drain to the Loddon River, immediately before discharge as this was dry at the time of sampling.</li> <li>Sample location SW2 at the Loddon River, downstream of the southern discharge point, and upstream of this discharge point from the unnamed tributary (SW4).</li> <li>Sample location SW5 at the Loddon River upstream of the Site, which was collected as a background sample.</li> <li>Surface water samples were collected by an environmental scientist/engineer, using a telescopic water sampler for the samples from the river and tributary. The sample from the soak was collected directly into the laboratory supplied bottles while wearing fresh nitrile gloves.</li> <li>The water samples were collected at an approximate depth of 0.3 to 0.4 m below the water surface at the Loddon River and unnamed tributary, which had a depth of approximately 0.5 m. The water samples from the soak were collected from just below the water surface, as the depth of the soak was less than 0.1 m.</li> <li>Field water quality parameters (including redox potential, pH, dissolved oxygen, electric conductivity, colour, odour and turbidity) were recorded at each sample location.</li> <li>Samples for metal analysis were filtered in the field prior to sampling (using 0.45 µm filters).</li> <li>The following samples were collected for quality assurance (QA)/quality control (QC): <ul> <li>1 x blind duplicate.</li> <li>1 x plit triplicate (this sample was unintendedly analysed at both the primary and secondary laboratory).</li> <li>1 x rinsate sample taken from re-usable equipment.</li> </ul> </li> </ul> |  |  |  |
|                                   | <ul> <li>Samples were chilled in laboratory supplied containers for delivery to the analytical laboratories under COC.</li> <li>All re-usable equipment was decontaminated between samples using Decon 90.</li> </ul>   |  |  |  |
| Laboratory<br>Analysis            | <ul> <li>Six primary surface water samples were analysed for:         <ul> <li>Dissolved metals (including arsenic, cadmium, chromium, copper, lead, nickel and zinc).</li> <li>PAH.</li> <li>Nutrients, cations/anions, total dissolved solids (TDS) and total suspended solids (TSS).</li> </ul> </li> <li>The two water QA/QC samples were analysed for dissolved metals and PAH.</li> </ul>   |  |  |  |

A plan showing the surface water sample locations is included in Figure 4 (attached).

#### 4.2.3 Adopted Surface Water Criteria

The Central Foothills and Coastal Plains Segment has been adopted and the applicable environmental values are:

- Water dependent ecosystems and species
- Agriculture and irrigation
- Human consumption of aquatic foods
- Industrial and commercial
- Water-based recreation



- Traditional owner cultural values
- Cultural and spiritual values

The criteria applicable to each of the above environmental values are included in Tables 14 to 16 (attached).

#### 4.2.4 Surface Water Results

Water laboratory results are summarised in **Tables 14** to 16 (attached). Field logs are included in **Appendix A** and copies of the laboratory certificates of analysis are contained in **Appendix B**.

In summary, the analytical results for the stormwater samples were as following:

- PAH and dissolved metals were all reported below the laboratory limit of reporting (LOR).
- The nutrients, cations, anions, TDS and TSS concentrations were all below the adopted site criteria.
- All dissolved metals concentrations were below the adopted site criteria, with the exception of the copper concentration (0.005 mg/L) in sample SW03, exceeding the water dependent ecosystems and species – 95% freshwater criteria (0.0014 mg/L).

#### 4.2.5 Discussion

- Based on the findings of the second surface water sampling event completed at the Site, it is considered that
  the elevated concentrations of contaminants present in the soil and associated with clay target shooting do
  not represent a potential risk to surface water receptors.
- It is noted that concentrations of dissolved metals reported at the soak (SW03) were higher than the laboratory LOR and the concentration of copper exceeded relevant criteria. At the time of sampling, however, the water level at the soak was low, with the depth of water being less than 100 mm. The water was stagnant with no water flowing between the drainage lines and the nearest receptor (Loddon River). The concentrations of dissolved metals are therefore likely to be more concentrated due to less water being present as a result of evaporation. The concentrations are considered to be higher than they would be during times of higher rainfall, where the volume of water would be higher.



# 5 QUALITY ASSURANCE/QUALITY CONTROL

#### 5.1 LABORATORY QA/QC PROGRAM

### 5.1.1 Quality Control Samples

As part of the laboratory internal QA/QC, the laboratories conduct regular audits on their analyses through the use of reagent blanks, analysis of surrogate spikes, repeat duplicates and verification of recoveries.

Kleinfelder completed a review of the laboratory QA/QC sample data collected during the project in accordance with Australian Standard, *Guide to the investigation and sampling of sites with potentially contaminated soil* (AS 4482.1).

A review of the primary and secondary laboratories internal laboratory QA/QC program presented as part of their final NATA reports indicated the QA/QC duplicate outliers presented in **Table 5.1** below.

| ltem                         | Details   |
|------------------------------|---|
| Laboratory frequency         | The number of internal quality control soil samples at the secondary laboratory (ALS) for Laboratory Reports EM2200148 and EM2200200 were insufficient for PAH/Phenols (SIM) for the matrix spikes.   |
| samples                      | The number of internal quality control water samples at the secondary laboratory (ALS) for was insufficient for PAH/Phenols (GC/MS $-$ SIM), for both the laboratory duplicates as the matrix spikes. |
| Laboratory method duplicates | All internal laboratory duplicate and method spikes reported RPDs within the acceptable range.  |
| Laboratory method blanks     | All internal laboratory method blanks recoveries were within the acceptable range.  |
| Laboratory method spikes     | All internal laboratory method spike recoveries were within the acceptable range.   |

Table 5.1: QA/QC duplicates

Overall, a sufficient frequency of laboratory duplicates, laboratory control samples, matrix spikes and surrogate spikes were reported to assess the accuracy of the laboratory methods and potential bias due to matrix effects and extraction efficiency. A sufficient frequency of laboratory method blanks was reported to assess for potential laboratory cross-contamination from sampling equipment or analysis equipment. Therefore, the outliers listed above are not considered to affect the interpretation of the reported data and the results are considered to be representative of soil and surface-water at the time of sampling.

### 5.1.2 Holding Time Compliance

Analysis holding time breaches for PAH compounds and moisture content were reported for all soil samples for the primary laboratory in Laboratory Report EM2200148. The holding time for PAH (14 days) is for volatile compounds and these are not the contaminant of concern in clay targets. The holding time for semi-volatile PAH compounds is 28 days and the initial analysis was completed within this time period. It is noted that a repeat analysis was requested due to the variability in concentrations of PAH compounds reported between the primary and secondary laboratories and the holding time for the repeat analysis slightly exceeded the holding time of 28 days. Shooting activities were halted at the Site in 2020 and therefore the clay targets have been present on the surface of the Site for a significant period of time. The minor breach in the holding time was therefore not considered to impact upon the overall interpretation of results.

Holding times for PAH were also exceeded for the secondary laboratory in Laboratory Report EM2200148 for surface water sample QC02. This was due to the delay in the transport of the sample from the primary laboratory. Again semi-volatile compounds have a holding time of 28 days and analysis was completed within this time period.



All other analytes for the soil and surface water samples were received at the laboratory, extracted and analysed within their respective holding times.

#### 5.1.3 Laboratory Limits of Reporting

Laboratory limits of reporting (LOR) for soil and surface water samples were sufficiently low to enable comparison of contaminant concentrations with adopted screening, with the exception of total PAH in surface water.

The PAH compounds were reported at concentrations below the laboratory LOR in all surface water samples analysed. The LOR adopted for the second monitoring event was greater than the criteria applicable to the environmental values for stock watering for BaP, and drinking water and recreational water for total PAH.

The environmental values are unlikely to be realised both on-Site and off-Site and results are not considered to impact upon the overall interpretation of the findings. Furthermore, the concentrations of PAH compounds were reported below the ultra-trace LOR applied during the first sampling event, which were below the criteria.

#### 5.2 FIELD QA/QC PROGRAM

#### 5.2.1 Relative Percentage Difference

Kleinfelder adopts a relative percent difference (RPD) acceptance criterion of up to 50% in accordance with the AS 4482.1. The RPD was calculated for duplicate and triplicate field samples as shown.

$$RPD = \frac{(Co - Cs)}{\left(\frac{Co + Cs}{2}\right)} x100$$

where: Co = concentration of the primary sample

Cs = concentration of the duplicate sample

RPDs are presented in Tables 9 to 12 for soil and Tables 17 to 20 for surface water (attached).

Where RPDs where incalculable due to one or more QC samples reporting contaminant concentrations less than laboratory LOR, the LOR value has been adopted to allow RPD calculation. Where RPDs exceeded the 50% acceptance criterion for QC samples, the highest concentration was adopted for interpretative use.

The duplicate and triplicate samples of this assessment met the acceptance criteria, with the exception of various PAH compounds in soil, which were reported consistently higher in the primary sample than in the duplicate and triplicate sample.

• This consistent difference between the primary sample, compared to both the duplicate and triplicate sample, is associated with the inherent heterogeneity of the clay target fragments entrained within the soil and/or low analyte concentrations reported.

#### 5.2.2 Rinsate and Trip Blanks

Rinsate blanks were collected from field sampling equipment during the soil sampling and surface water sampling works in order to assess the effectiveness of decontamination procedures. All analytes were reported below the laboratory LOR in the rinsate blanks, indicating that that the decontamination procedures used were appropriate and that cross-contamination between locations by reusable sampling equipment is unlikely to have occurred.

No trip blanks were collected or analysed during the soil and surface water sampling as volatile organic compounds (VOC) were not considered to be contaminants of concern and cross-contamination during transport and storage of the compounds analysed was not considered likely.

Quality control rinsate results are presented in Tables 13A and 20 (attached).



### 5.3 QA/QC CONCLUSIONS

Based on the above QA/QC review, Kleinfelder considers data quality to be acceptable for interpretive use.

Copies of the final NATA endorsed laboratory reports, including internal QA/QC results and CoC documentation for both laboratories are attached as **Appendix B**.



### 6 CONCEPTUAL SITE MODEL

A conceptual site model (CSM) is a qualitative analytical tool that identifies the sources of contamination, exposure pathways and potential receptors on-Site and in the site surroundings. A CSM also provides a discussion of the nature and extent of impacts and relevant source-pathway-receptor (S-P-R) linkages.

The CSM previously prepared in the Kleinfelder CUP has been refined to reflect the updated risk profile at the Site based on the findings of additional soil and surface water sampling.

It is acknowledged that this CSM relates only to contamination caused by shooting activities and not by other potential sources of historical contamination at the Site. Based on the historical review, however, particularly the information that horse racing commenced at the Site since 1867, and the absence of alluvial gold mining, it is considered unlikely that contaminating activities (other than clay target shooting) were undertaken at the Site.

#### 6.1 EVALUATION OF EXPOSURE PATHWAYS

#### 6.1.1 Source

Based on the historical use of the Site for clay target shooting, the conclusions from the previous reports for the Site and the findings of further soil and surface water investigation at the Site, the sources of contamination were identified as:

- Lead shot:
  - Shotgun pellets are contained within shotgun wads and are made up of lead.
  - Lead shot is principally a mixture between antimony (0.5 to 6.5 wt% (for hardness)) and lead with minor arsenic (0.1 wt%) and tin (0.1 wt%) concentrations; trace elements (i.e., <1,000 mg/kg) include bismuth, copper, zinc, chromium and silver.</p>
- Clay targets:
  - Historically made of limestone and bitumen mixture.
  - The bitumen makes up approximately 30% of the targets and may contain between 0.5 and 5% polycyclic aromatic hydrocarbon (PAH) compounds<sup>17</sup>.

The unused targets and larger target fragments can be removed from the environment using physical methods and this was previously undertaken by the members of the Daylesford Field and Game Association Inc in accordance with the conditions of their licence for clay target shooting. Based on the findings of additional soil sampling completed by Kleinfelder in 2021, however, it is considered that the elevated concentrations of PAH compounds reported in soil are likely associated with smaller clay target fragments not visible to the eye. These fragments would be unable to be recovered by hand and therefore become entrained within the soil.

#### 6.1.2 Spatial and Vertical Distribution – PAH in Soil

The PAH concentrations reported at the Site reveal a spatial distribution pattern. The previous Beveridge Williams PSCA identified total PAH compounds above the laboratory LOR in 21 out of the 30 samples analysed (or 70% of samples). In contrast, total PAH compounds were only reported above the laboratory LOR in 19% of the shallow soil samples reported during the Kleinfelder DSI (i.e., 10 out of 54). As shown in **Figure 6.1** below, however, the majority of Beveridge Williams samples were concentrated within the six target launch areas and the debris drop zones. There is a discernible correlation between the elevated PAH concentrations and the approximate 50 to 90 meter fall zone, where the majority of target fragments are likely to have previously been deposited. The 50 to 90 meters fall zone was estimated from near the centre of the launch areas.

<sup>&</sup>lt;sup>17</sup> Environment Canterbury, 2006. Potential for contamination from clay target debris at shooting sites: Review of literature on occurrence of site contamination from clay targets. Report No. U06/81



As discussed previously, based on the concentrations reported in the samples previously analysed at depth from the underlying natural soil, no evidence of PAH migration through the soil profile was observed.

Based on the distribution observed and the sampling methodology employed, both during the initial investigation and recent soil sampling completed by Kleinfelder, it can be concluded that the PAH distribution is likely consistent with the conceptual model PAH fall zone as demonstrated in **Figure 6.1** below.

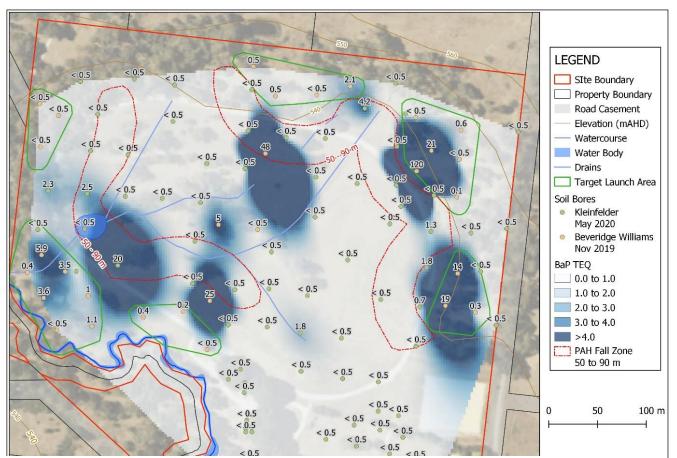


Figure 6.1: Interpolated BaP TEQ concentrations, with estimated 50 to 90 metre fall zones from indicated launch \_ areas.

#### 6.2 PATHWAY

The potential primary exposure pathways for the migration of the identified contaminants of concern are:

- Dermal contact.
- Dust inhalation.
- Direct and incidental ingestion.
- Discharge of contaminated groundwater/stormwater.

#### 6.3 RECEPTORS

Based on an ongoing recreational and public open space use of the Site, the potential receptors include:

- On-Site and Off-Site recreational users (e.g. equestrian, shooting, dog walkers, camping activities, children's playground)
- On-Site visitors (e.g., spectators)
- Off-Site residential users
- On-Site and Off-Site groundwater extraction for drinking water purposes



• On-Site and Off-Site ecosystems (terrestrial and freshwater)

The S-P-R linkages associated with the identified contaminants of concern are outlined in Table 6.1 below.

#### Table 6.1: Clay Target Shooting S-P-R Linkages

| Source                                 | Pathway  | Receptor  | Risk to Receptor   | Comments  |
|--|--|---|--|---|
| Lead shot                              | Dermal contact<br>Dust inhalation<br>Direct and incidental ingestion | On-Site and Off-Site recreational users (current and future)<br>Off-Site residential receptors                  |  | The concentrations of lead in soil do not exceed the Tier 1 human health inver-<br>evaluation of the dataset.<br>No exceedances of lead were reported in other areas on-Site and off-Site   |
|  | Plant uptake within the root zone (applicable to 2 mbgl)             | On-Site terrestrial ecosystem   |  | The concentrations of lead in soil do not exceed the applicable ecological i  |
|  | Migration in groundwater.  | On-Site and off-Site extractive groundwater users<br>On-Site and off-Site terrestrial and freshwater ecosystems | Acceptable   | Limited leaching of lead in soil to the groundwater was observed, which has<br>reported above the adopted screening criteria.   |
|  | Discharge to and migration in surface water                          | On-Site and off-Site receptors (as listed in <b>Section 6.3</b> above)  |  | <ul> <li>No evidence for migration within surface water was found based on the foll</li> <li>The concentrations of lead were reported below the laboratory LOR of from the soak within the oval/racecourse area, from the two discharge point at the unnamed tributary.</li> <li>The concentrations of lead reported in the samples collected from the two area and the sediment/surface water samples collected from the two adopted criteria.</li> </ul>                              |
| Used clay<br>targets (PAH,<br>BaP TEQ) | Dermal contact<br>Dust inhalation<br>Direct and incidental ingestion | On-Site recreational Site users (current and future)  | Potentially<br>acceptable<br>(subject to further<br>risk assessment) | Although concentrations of BaP TEQ in soil exceed 250% of the HIL C, NI findings of the literature review, however, the bioavailability of carcinogen lower and a SSTL for BaP TEQ could be developed to assess whether the risk to human health. This is discussed further in <b>Section 7</b> below.  |
|  |  | Off-Site recreational users (current and future)<br>Off-Site residential receptors                              |  | No exceedances of PAH compounds were reported in other areas on-Site  |
|  | Plant uptake within the root zone (applicable to 2 mbgl)             | On-Site terrestrial ecosystem   |  | The concentrations of BaP and TRH (>C16-C34) in soil do not exceed the N<br>dataset.<br>No evidence of potential impact (i.e. stressed vegetation) was observed du  |
|  | Migration in groundwater.  | On-Site and off-Site extractive groundwater users<br>On-Site and off-Site terrestrial and freshwater ecosystems | Acceptable   | PAH associated with clay targets is typically non-leachable (as evidenced groundwater generally being less than the laboratory LOR).<br>Concentrations of PAH in groundwater were less than the adopted screeni   |
|  | Discharge to and migration in surface water                          | On-Site and off-Site receptors (as listed in Section 6.3 above)   |  | <ul> <li>No evidence for migration within surface water was found based on the foll</li> <li>The concentrations of PAH compounds were reported below the la samples collected from the soak within the oval/racecourse area, fro upstream of the discharge point at the unnamed tributary.</li> <li>The concentrations of PAH compounds reported in the samples collect oval/racecourse area and the sediment/surface water samples collect were below the adopted criteria.</li> </ul> |



investigation levels (NEPM HIL C) following statistical

ite where soil sampling was completed.

al investigation levels (NEPM EIL).

has not resulted in groundwater concentrations being

following:

R or adopted criteria in the surface samples collected harge points to Loddon River and upstream of the

ne drainage lines and soak within the oval/racecourse wo discharge points to Loddon River were below the

NEPM assumes 100% bioavailability. Based on the genic PAH compounds in clay targets is significantly the PAH compounds in clay targets on-Site pose a

ite and off-Site where soil sampling was completed.

ne NEPM EIL/SL following statistical evaluation of the

during investigation works on-Site.

ced by the concentrations of PAH compounds in in

ening criteria.

following:

e laboratory LOR or adopted criteria in the surface from the two discharge points to Loddon River and

ollected from the drainage lines and soak within the ected from the two discharge points to Loddon River



## 7 EXPOSURE RISK ASSESSMENT

### 7.1 BACKGROUND

Based on the identified S-P-R linkages developed for the Site as outlined in **Section 6** above, Kleinfelder has completed further evaluation of the potential exposure of receptors to carcinogenic PAH compounds at the Site.

Further refinement of the exposure risk assessment has been undertaken to further establish the nature and extent of risks posed by PAH contamination and whether the following is required for the Site:

- Further analysis and risk assessment
- Remediation of the soils
- Continuation of existing management controls and/or further management requirements

#### 7.2 LITERATURE REVIEW

Bioaccessibility is generally defined as the ability of a chemical to come into contact with the absorbing surfaces in an organism. The chemical can only be absorbed when it is in a liquid or gaseous form. It is expressed as the percentage of the amount available for absorption compared to the total in a solid form.

Bioavailability is defined as the percentage of a chemical that is absorbed into the body following dermal contact, or exposures via ingestion or inhalation.

When developing Tier 1 screening levels, the NEPM assumes 100% bioavailability and also states that PAH compounds do not pose significant human health risks where they are present in bitumen fragments, as the compounds are immobile and have low bioavailability<sup>18</sup>. It also notes that bioavailability is highly site and PAH source specific.

As such, a literature review was previously undertaken to provide a greater understanding of whether the PAH compounds pose potential risks to human health. The literature review was performed on readily available articles and reports related to clay targets at shooting ranges.

The Interstate Technology and Regulatory Council (ITRC)<sup>19</sup> notes that clay targets are composed of approximately 70% limestone (calcium carbonate) and 30% binding material (pitch, bitumen or other organic materials), with PAH compounds sourced from the binding material. PAH concentrations in clay targets varies widely, however, the highest concentrations are found in targets using pitch (crude oil or coal tar processing residues) as the binder<sup>20</sup>. Total PAH concentrations in the clay targets vary with concentrations ranging from 1,000<sup>21</sup> to 100,000<sup>22</sup> mg/kg. Total PAH concentrations reported in surface Site soil samples range from below the laboratory LOR to 780 mg/kg, with the higher concentrations observed in areas where clay target fragments were present in the soil.

In the study conducted by Baer et al. it was found that:

• Similar PAH concentrations in new and weathered clay targets shows that the PAH are tightly bound in the targets and the targets were the PAH source in sediments near the study area.

<sup>&</sup>lt;sup>18</sup> National Environment Protection (Assessment of Site Contamination) Amendment Measure, 2013. Schedule B7, Appendix A2: The derivation of HILs for PAHs and phenols.

<sup>&</sup>lt;sup>19</sup> Interstate Technology Regulatory Council, 2005. Environmental management at operating outdoor small arms firing ranges.

<sup>&</sup>lt;sup>20</sup> Lobb, A., 2006. Potential for PAH contamination from clay target debris at shooting sites: Review of literature on occurrence of site contamination from clay targets. Report U06/81.

<sup>&</sup>lt;sup>21</sup> Baer, K.N. et al., 1995. Toxicity evaluation of trap and skeet shooting targets to aquatic test species. Ecotoxicology, 4, 385-392.

<sup>&</sup>lt;sup>22</sup> Gonzalez, G.R., 2003. Contaminants at a shooting range: Toxicological and nutritional significance to birds and mammals. Masters Thesis, Virginia Polytechnic Institute and State University.



• PAH were unlikely to be bioavailable in the aquatic environment.

More recently Forsberg et al<sup>23</sup> assessed the PAH relative oral bioavailability and dermal absorption from  $\leq$ 250 µm soil fractions collected at two former clay target shooting ranges in the United States. The sum of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and dibenz(a,h)anthracene concentrations in the soil samples ranged from 34 to 18,500 mg/kg. Forsberg et al concluded:

- The mean benzo(a)pyrene oral relative bioavailability factors ranged from 8 to 14% and the dermal absorption factors ranged from 0.6 to 1.3%.
- The mean chrysene and benzo(a) anthracene oral factors ranged from 30 to 38% and 15 to 23%, respectively.
- Compared to the benzo(a)pyrene residential soil USEPA RSL<sup>24</sup> the benzo(a)pyrene screening criteria (1.1 mg/kg) would be eight times higher, at the 1:105 cancer target risk factor, for soil from the clay target shooting ranges.
- The benzo(a)pyrene relative oral bioavailability could conservatively be used for the three additional carcinogenic PAH compounds not studied.
- Dermal adsorption fractions for the five PAHs ranged from 0 to 3.6% in the soil samples and from 0 to 1.1% for a pulverised clay target. Dibenz(a,h)anthracene adsorption was 0% in all samples.

The compounds investigated by Forsberg et al comprise six of the eight carcinogenic compounds used to calculate the NEPM BaP TEQ, which assumes 100% bioavailability. The PAH bioavailability from soil containing clay target fragments was found by Forsberg et al. to be lower than 100%, but not unavailable. The human health risk posed by PAH compounds in Site soil is therefore likely to be lower than that indicated by comparison to the NEPM HIL C for BaP TEQ as discussed further below.

#### 7.3 DERIVATION OF SSTL FOR BAP TEQ

Based on the findings of the literature review, the bioavailability of carcinogenic PAH compounds in clay targets was considered to be significantly lower and a SSTL for BaP TEQ could be developed to assess whether the PAH compounds in clay targets on-Site poses a risk to human health.

As outlined in the CUP, and as verified in the auditor clean up plan verification report<sup>25</sup>, the SSTL for BaP TEQ provides a value to replace the HIL C provided in Schedule B1 of the NEPM. The NEPM HIL excel spreadsheet calculator was used to calculate BaP TEQ SSTL using modified oral/dermal factors and exposure frequencies.

Further details of how the SSTL was developed for BaP TEQ using published literature to assess the risk that this contaminant poses to human health is discussed further below.

#### 7.3.1 Oral and Dermal Bioavailability

The oral relative bioavailability factors for benzo(a)anthracene and chrysene as resulting from Forsberg et all are higher than the one for benzo(a)pyrene. This is not considered to pose a problem as these two compounds have a toxic equivalence factor (TEF) of 0.1 and 0.01, respectively, while benzo(a)pyrene has a TEF of 1. In addition to this, Forsberg states that the benzo(a)pyrene value, when used to represent the other compounds (benzo(b+f)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3,cd)pyrene and dibenz(a,h)antrhracene), is a conservative measure.

Based on the literature review it is considered that information obtained by Forsberg et al could be used to estimate a BaP TEQ screening criteria for the Site if the PAH concentrations in  $\leq 250 \mu m$  soil fractions are used. No data is currently available for the  $\leq 250 \mu m$  soil fractions for the Site, however, given the nature of the PAH

 <sup>&</sup>lt;sup>23</sup> Forsberg, N.D., et al., 2021. Oral and dermal bioavailability studies of polycyclic aromatic hydrocarbons from soils containing weathered fragments of clay shooting targets. Environmental Science and Technology, 55, 6897-6906.
 <sup>24</sup> United States Environment Protection Agency regional screening level

<sup>&</sup>lt;sup>25</sup> Senversa(2021), Clean-Up Plan Verification and Assessment Report, Glenlyon Recreation Reserve, Sutton Lane, Glenlyon VIC



concentration, where the highest concentrations were reported in the clay target fragment collected from the Site (140 mg/kg), it is expected that the total PAH concentrations reported (i.e. the unsieved results) would be higher than the  $\leq$ 250 µm µm soil fractions.

Although the clay target fragments are considered to be entrained within rather than bound to the soil, the soil type where the study was completed was noted to be silty loam, sandy loam or sandy clay loam, which is considered to be relatively consistent to the predominant soil type where the elevated concentrations of PAH were reported at the Site (i.e. clayey silt). The values applied by Forsberg et al are therefore considered appropriate to use to adjust the HIL specific for the Site.

Using the upper ranges of the BaP oral relative bioavailability (14%) and dermal absorption factor (1.3% or 0.013), calculated by Forsberg et al, the HIL increases to:

- For early-life, the HIL becomes 20 mg/kg
- For adults, the HIL becomes 50 mg/kg

The HIL calculation sheets with these adjusted values are provided in Appendix C1.

#### 7.3.2 Receptors of Concern

Adjustment factors are applied to the calculation of risks associated with early-life exposures and the early-life HIL is based on children being exposed from birth. As per Schedule B4 of the NEPM, the adjustment factors include the following:

- A ten-fold adjustment for exposures during the first 2 years of life
- A three-fold adjustment for exposures from ages 2 to less than 16 years of life
- No adjustment for exposures for ages 16 years and older.

Based on the information provided by Council, the most sensitive receptor (i.e. early-life) will not be walking in those areas where the highest concentrations of BaP TEQ were reported given that at this age they are likely to be in prams or assisted by their guardians on the more stable ground available (i.e. walking tracks as noted in **Figure 7.1** below) and not in the grassed areas where the impacts were reported.

Kleinfelder previously completed soil sampling and analysis in the children's playground located to the south of the oval/racecourse area (samples PG01 to PG05) and the concentrations of PAH compounds were all below the laboratory LOR.

Kleinfelder also completed soil sampling and analysis in other areas of the Site as part of the DSI, which included a children's playground located to the south of the oval/racecourse area (samples PG01 to PG05). This area is not considered to pose a risk to children, based on the concentrations of BaP TEQ reported in the targeted soil sampling completed. In addition, other areas of the Site were assessed, which included the barbecue area (samples BS01 to BS11), camping area (samples CG01 to CG12), mounting yard area (samples MY01 to MY05), pavilion (samples PV01 to PV10), eastern and south-eastern fence lines (samples FB01 to FB05) and neighbouring properties to the north, east and west of the Site (SB01 to SB14). The concentrations of PAH compounds were all below the adopted criteria, which demonstrates that the contamination associated with shooting activities at the Site is confined to the oval/racecourse area.

As discussed in **Section 3.2** above, however, based on the Site being accessible to the general public (with the exception of shooting/equestrian events), both adults and early-life are considered to be receptors of concern given there is no restricted access to the wider oval/racecourse area where the highest concentrations of BaP TEQ were reported at the Site.

#### 7.3.3 Exposure Frequency

The SSTL is based on an exposure frequency of 365 days/year. Although the Site is publicly accessible every day of the year (with the exception of shooting/equestrian events), an exposure frequency of 365 days/year is very conservative as it assumes that the same individual would be exposed to the same BaP TEQ concentrations every day of the year for two hours a day for their entire lifetime.



This is therefore considered to overestimate the most likely exposure frequency for the receptors of concern based on the following information provided by Council:

- It is highly unlikely that a potential receptor will access the areas where the highest concentrations of BaP TEQ were reported every day of the year for two hours a day given that walking tracks have been established and are not located in those areas where the highest concentrations were reported. Refer to Figure 7.1 below showing the location of the established walking tracks at the Site.
- The majority of the Site (including the area where the highest concentrations of BaP TEQ compounds were
  reported) is covered by thick vegetation, comprising grass and trees. It is therefore considered unlikely that
  receptors would be exposed to those same concentrations reported in the surface soil, which was accessed
  following the removal of organic material (including the surface grass and underlying rootlets) from the surface
  soil.
- Equestrian events are limited to once a week at the Site. In addition, the equestrian riders do not frequently
  ride in those areas of the Site where the highest concentrations of BaP TEQ were reported. Where the riders
  do use the areas where the highest concentrations of BaP TEQ were reported, this is limited to once per
  month.
- As previously noted in Section 3.2.2 above, shooters use the Site once per month on a scheduled day (Sunday) and public access is restricted during shooting events, with spectators observing from the boundary fences surrounding the oval/racecourse area and not in the area where the highest concentrations of BaP TEQ were reported.
- Public events that may be held are normally held annually or at a frequency less than 2-days a week.

As such, a more likely exposure frequency has been reduced to two times per week (i.e. 104 days/year), which is considered to be protective of the receptors at the Site.

The site-specific HILs are therefore further increased to:

- 60 mg/kg for early-life
- 200 mg/kg for adults

The HIL calculation sheets with these adjusted values are provided in **Appendix C2**.

Based on this adopted SSTLs for early-life and adult for both exposure frequencies (i.e. 365 days/year and 104 days/year), the exceedances reported both during the initial investigations and recent soil sampling completed by Kleinfelder are shown in **Figure 7.2** and **7.3** below.



Figure 7.1: Walking tracks at the Site (yellow are the walking trails; red is the fence line)

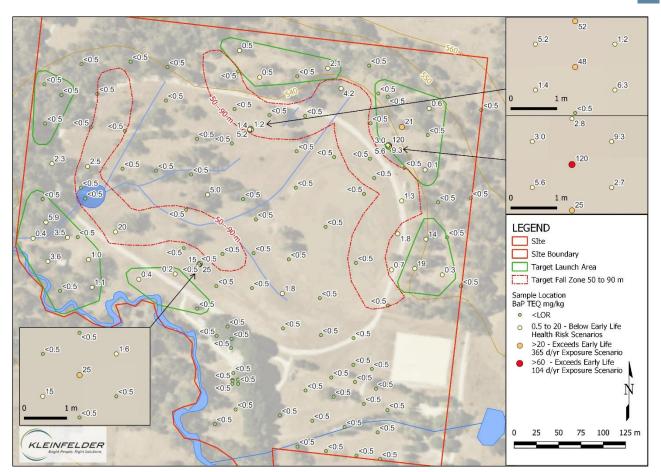


Figure 7.2: Site specific SSTLs for BaP TEQ (early-life)

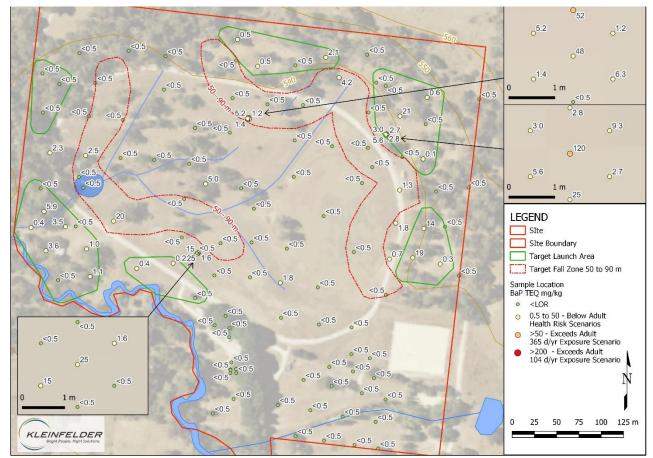


Figure 7.3: Site specific SSTLs for BaP TEQ (adult)



#### 7.4 STATISTICAL EVALUATION OF DATASET AND RISK CHARECTERISATION

The statistical evaluation for BaP TEQ surface data provided in the Kleinfelder CUP has been updated to include the most likely SSTL developed for the Site (i.e. 60 mg/kg). The data is summarised in **Table 7.1** (below). It is noted that soil samples collected during the recent targeted soil sampling completed by Kleinfelder are not included in this statistical analysis as these samples targeted the previous soil sample locations.

| Descriptor                            | BaP TEQ (mg/kg) | Samples Exceeding Criteria |
|---------------------------------------|-----------------|----------------------------|
| SSTL                                  | 60              | 1                          |
| Arithmetic mean                       | 3.726           | 0                          |
| 95% upper confidence limit (UCL) mean | 10.59           | 0                          |
| Standard deviation                    | 14.44           | 0                          |
| 250% SSTL                             | 150             | 0                          |

 Table 7.1:
 Statistical Evaluation of the Dataset – BaP TEQ

Based on the findings of the statistical evaluation of the dataset, the 95% UCL BaP TEQ concentration is below the most conservative modified HIL developed for the Site (i.e. 20 mg/kg). As such, in the event that individuals are accessing those areas where the highest concentrations of BaP TEQ every day of the year, the associated health risk would be low and acceptable.

Whilst the concentration of one Beveridge and Williams sample (SS15), located in the northeast portion of the Site exceeded the most likely SSTL developed for the Site (i.e. 60 mg/kg), the 95% UCL is considered to be more statistically accurate representation of average concentrations to which a receptor is potentially exposed. In addition, given that the reported concentrations of BaP TEQ in this single exceedance were similar to the concentrations of the clay target fragments analysed during the recent Kleinfelder soil sampling, it is considered that this individual sample result is strongly affected by the presence of residual clay target fragments. Kleinfelder collected an additional six samples targeting this location and the highest reported concentration of BaP TEQ (i.e. 25 mg/kg) was below the adopted SSTL. The concentration of BaP TEQ was also less than 250% of the SSTL developed for the Site (i.e. 150 mg/kg). The elevated sample location is likely to overstate the potential exposure risk (particularly over a lifetime). It is therefore considered not to be representative of the overall risk profile for the Site.

Based on the SSTL derived for the Site, statistical evaluation of the dataset and the risk profile of the soil, the concentrations of BaP TEQ are below the site-specific risk-based criteria. The human health risks posed are therefore considered to be low and acceptable and, as such, this environmental value is not precluded.

#### 7.5 TRIGGERS AND CONTINGENCIES

In accordance the CUP previously prepared by Kleinfelder<sup>26</sup>, further contingencies (as outlined in Stage 3 of the CUP) to further assess the risk posed by historical clay target shooting activities at the Site are not considered to be required for the Site, based on the following triggers not being met:

- A SSTL for BaP TEQ using published literature was sufficient to assess the risk that this contaminant poses to human health.
- Elevated concentrations of contaminants were not reported in the surface water.

#### 7.6 ASSUMPTIONS AND LIMITATIONS

Risk assessments require a number of assumptions regarding site conditions, human exposure and the toxicity of contaminants. Although, specific parameters relating to the Site's current use were included as part of the

<sup>&</sup>lt;sup>26</sup> Kleinfelder 2021, Clean-Up Plan – Glenlyon Recreation Reserve



derivation of the SSTL, it is not possible to assume that the conditions and activities at the Site will not change over time.

The assumptions considered as part of the exposure risk assessment, however, were considered to be conservative, which accounts for the uncertainty and variability used to derive the calculations for the protection of human health applicable to a public recreational reserve.

Furthermore, the nature and extent of impact has been delineated in soils within the oval/racecourse area and does not extend to other areas of the Site used by members of the public.

Overall, the assumptions considered as part of the exposure risk assessment adopt the Precautionary Principle in estimating risk<sup>27</sup>. The risk assessment presents conditional estimates based on a number of assumptions regarding exposure and toxicity. It is acknowledged that this is an iterative process, and the methodologies and limitations are subject to change over time. This should be recognised when considering the ongoing public recreational use of the Site.

<sup>&</sup>lt;sup>27</sup> enHealth, 2012. Environmental Health Risk Assessment – – Guidelines for Assessing Human Health Risks from Environmental Hazards



## 8 CONCLUSION

Kleinfelder was engaged by Hepburn Shire Council to prepare this risk assessment report for the Glenlyon Recreation Reserve, located on Suttons Lane Glenlyon, Victoria.

This risk assessment is a response to the EPA Victoria amended CUN 90011425, issued to the Council on 24 May 2021 and follows the Kleinfelder CUP. This report includes the findings of additional soil and surface water data collected for the Site to assess the potential risk to the environment and human health in relation to the Site's historical use for clay target shooting.

Based on the findings of the further sampling and risk appraisal of the Site, Kleinfelder concludes the following:

- The risk posed by contaminants of concern associated with clay target shooting (i.e. lead and PAH compounds) in the Site's soil and surface water to all identified receptors is considered to be low and acceptable.
- Given the risks are considered to be low and acceptable, no further risk assessment, remedial actions or further management controls are required for the Site based on its ongoing use as a public recreational reserve.
- The management measures being taken by the Council to manage the potential short-term exposure risk to public health and the environment are no longer considered to be required. It is recommended, however, that the risk mitigation measures outlined in the Environmental Management Plan previously prepared for the Site <sup>28</sup> are employed as part of the recommencement of clay target shooting activities at the Site.

<sup>&</sup>lt;sup>28</sup> Kleinfelder, 2021. Environmental Management Plan, Daylesford Field and Game Association Inc., Glenlyon Recreation Reserve



## 9 LIMITATIONS

This report has been prepared by Kleinfelder Australia Pty Ltd (Kleinfelder) and may be used only by the Client and its designated representatives or relevant statutory authorities and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than two (2) years from the date of the report.

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This report cannot be reproduced without the written authorisation of Kleinfelder and then can only be reproduced in its entirety.

The findings and conclusions contained within this report are relevant to the conditions of the site and the state of legislation currently enacted in the relevant jurisdiction in which the site is located as at the date of this report.

Additionally, the findings and conclusions contained within this report are made following a review of certain information, reports, correspondence, and data noted by methods described in this report including information supplied by the client or its assigns. Kleinfelder has designed and managed the program for this report in good faith and in a manner that seeks to confirm the information provided and test its accuracy and completeness. However, Kleinfelder does not provide guarantees or assurances regarding the accuracy, completeness and validity of information and data obtained from these sources and accepts no responsibility for errors or omissions arising from relying on data or conclusions obtained from these sources.

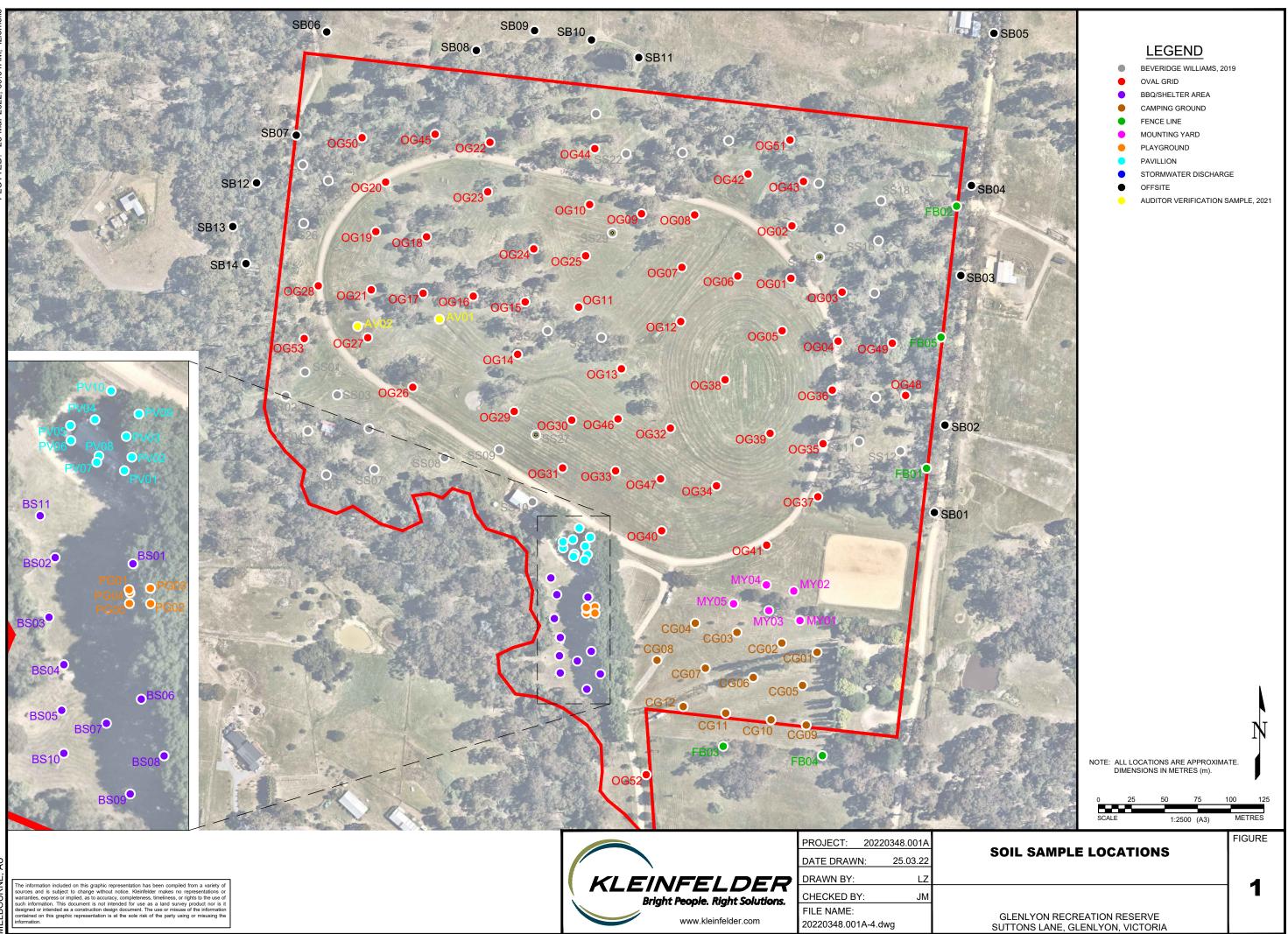
Any representation, statement, opinion or advice expressed or implied in this report is made on the basis that Kleinfelder, its agents and employees are not liable to any other person taking or not taking (as the case may be) action in respect of any representation, statement, opinion or advice referred to above.

# FIGURES



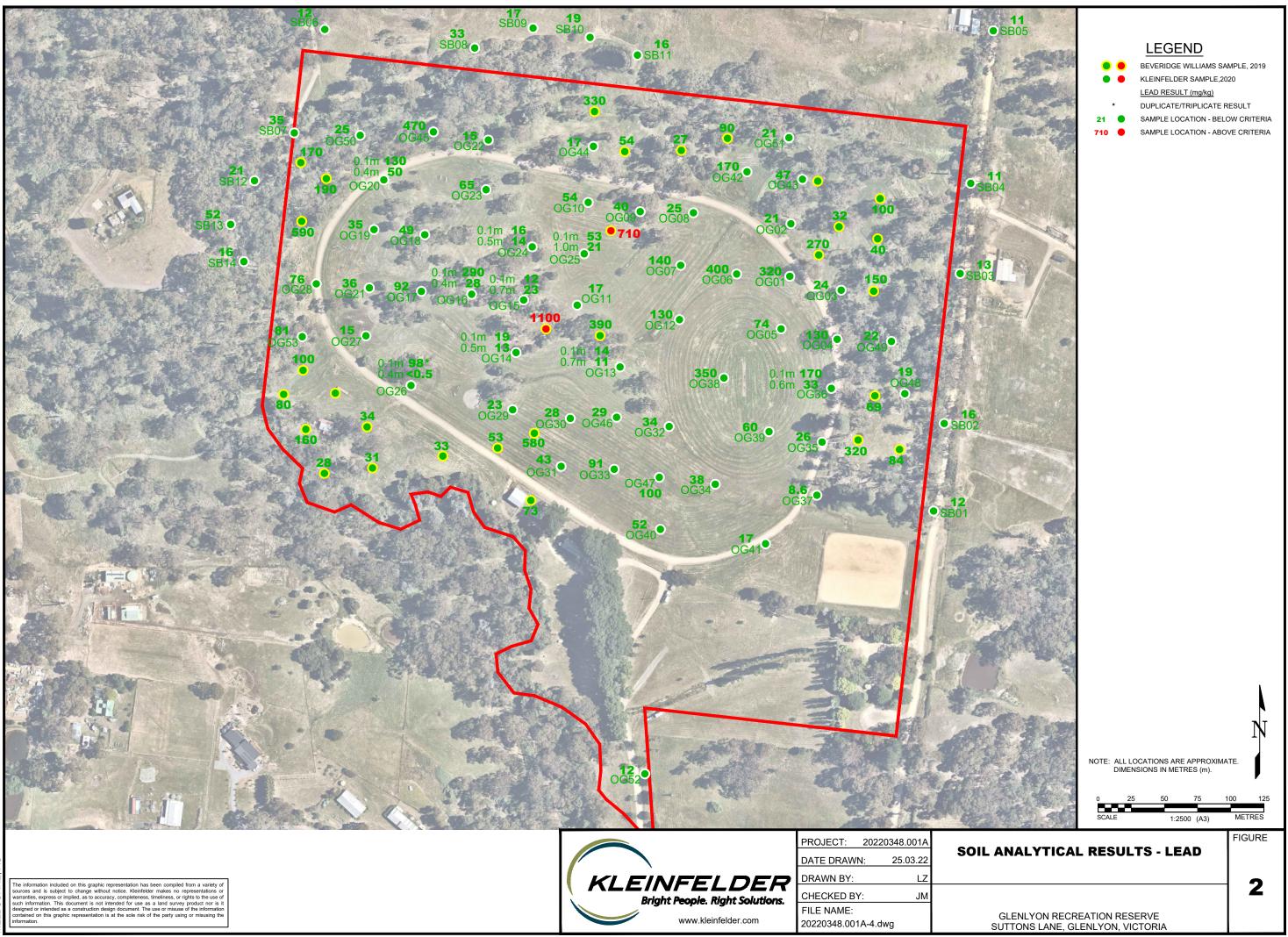


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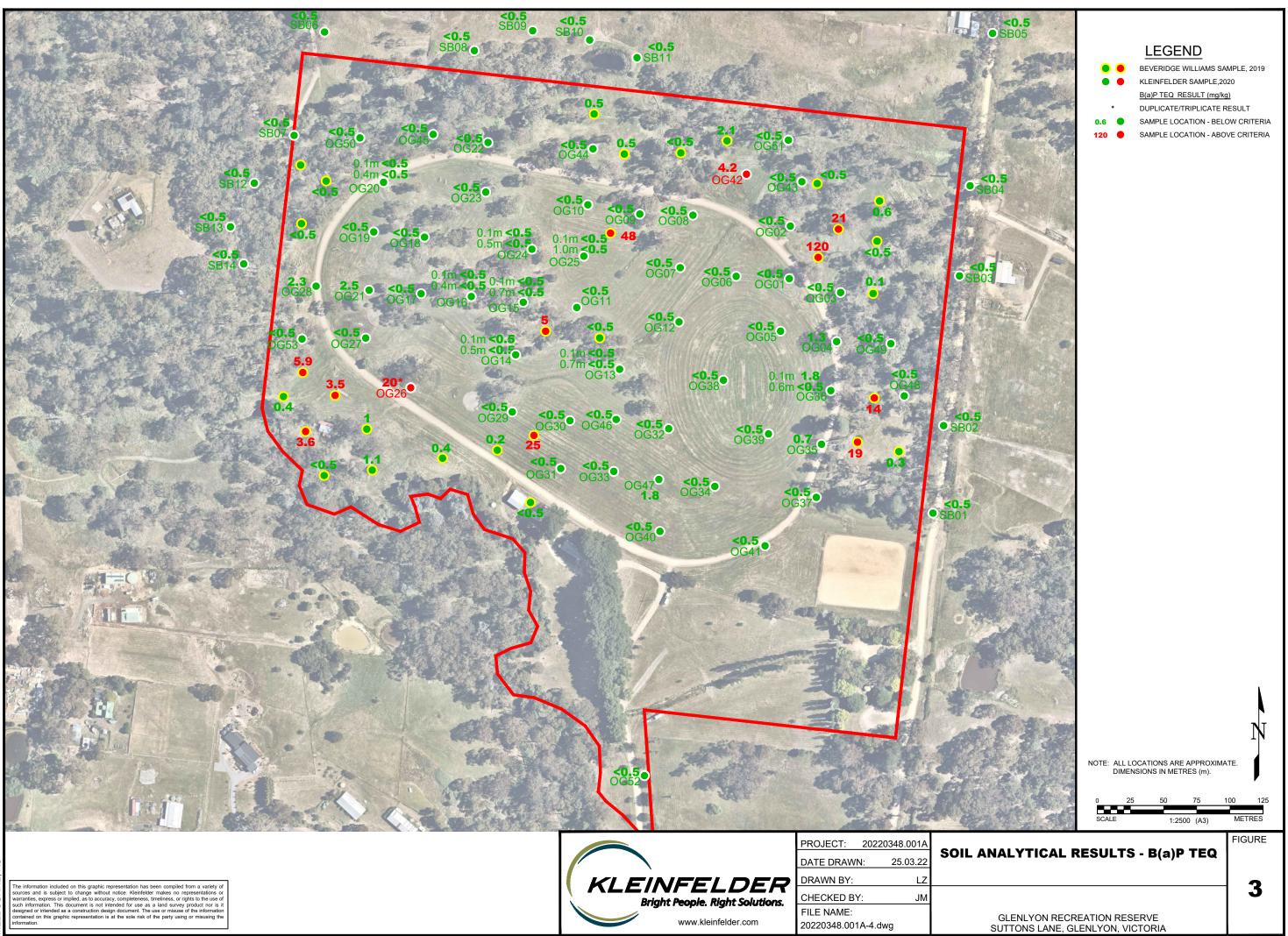
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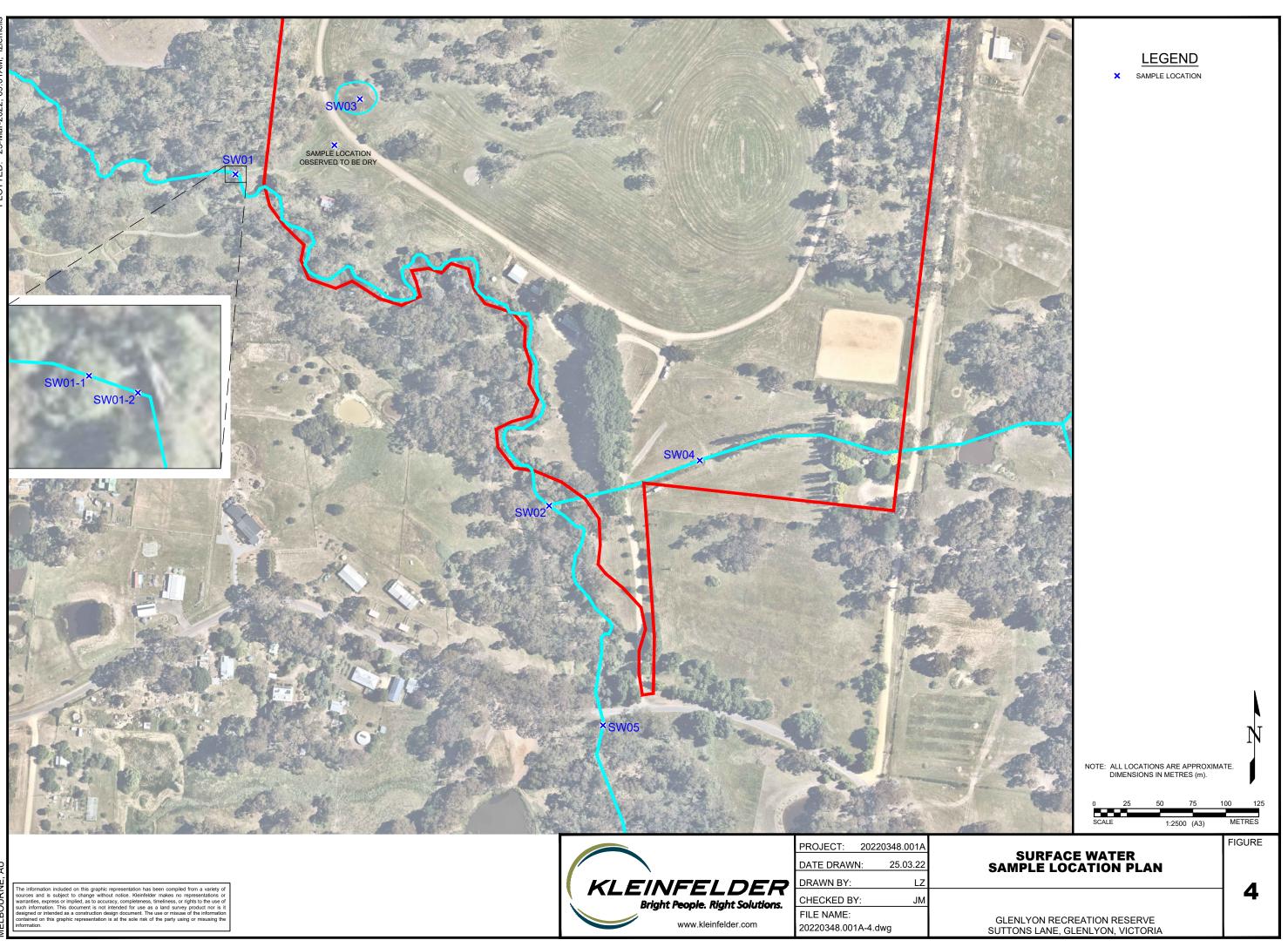
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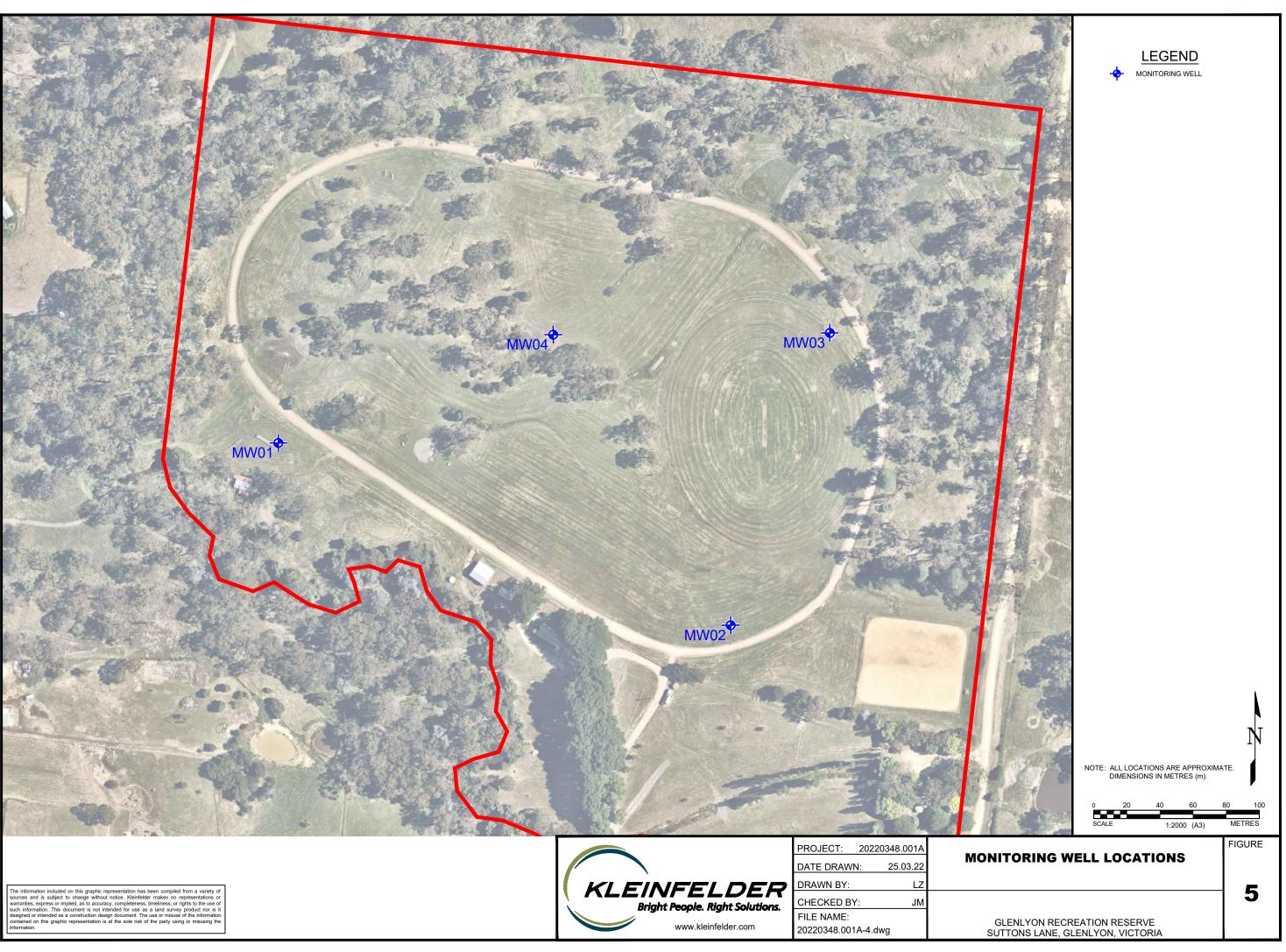
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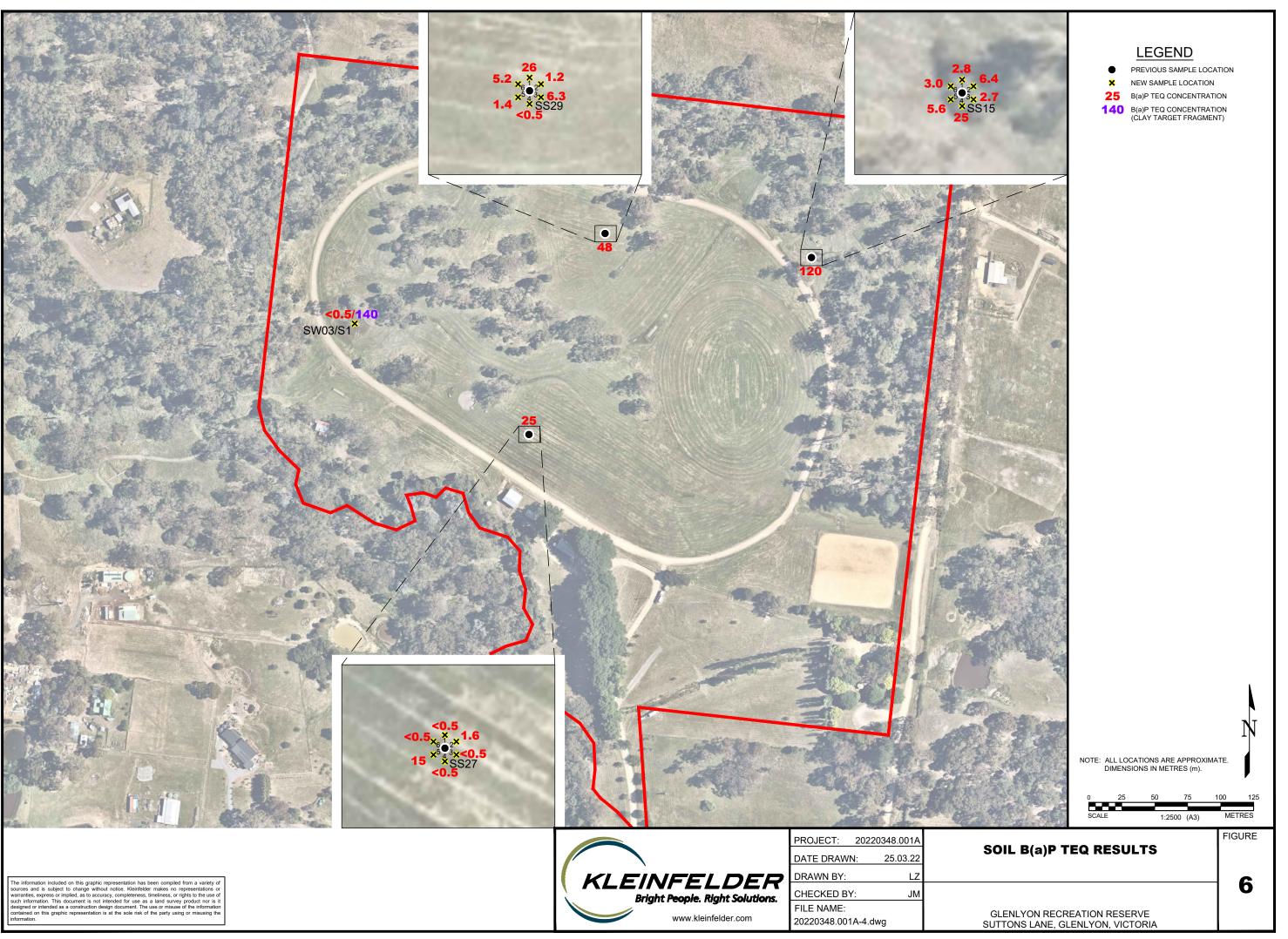




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# TABLES





|                  |                                   |                 |         |                |              | BTEXN                   |                |               |             |                                 | Total P                           | Petroleum Hydrod                  | carbons                           |                                       |                                  |                                   | Total                              | Recoverable Hydrocart  | oons                               |                                    |  |
|------------------|-----------------------------------|-----------------|---------|----------------|--------------|-------------------------|----------------|---------------|-------------|---------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------------------------------|----------------------------------|-----------------------------------|------------------------------------|--|------------------------------------|------------------------------------|--|
|                  | Analyte                           |                 | Benzene | Toluene        | Ethylbenzene | meta- & para-<br>Xylene | ortho-Xylene   | Total Xylenes | Naphthalene | C <sub>6</sub> - C <sub>9</sub> | C <sub>10</sub> - C <sub>14</sub> | C <sub>15</sub> - C <sub>28</sub> | C <sub>29</sub> - C <sub>36</sub> | C <sub>10</sub> - C <sub>36</sub> sum | C <sub>6</sub> - C <sub>10</sub> | $C_6 - C_{10}$ minus<br>BTEX (F1) | >C <sub>10</sub> - C <sub>16</sub> | >C <sub>10</sub> - C <sub>16</sub> minus<br>Naphthalene (F2) | >C <sub>16</sub> - C <sub>34</sub> | >C <sub>34</sub> - C <sub>40</sub> | >C <sub>10</sub> - C <sub>40</sub> (sum) |
|                  | LOR                               |                 | 0.1     | 0.1            | 0.1          | 0.2                     | 0.1            | 0.3           | 0.5         | 20                              | 20                                | 50                                | 50                                | 50                                    | 20                               | 20                                | 50                                 | 50   | 100                                | 100                                | 100                                      |
|                  | Units                             |                 | mg/kg   | mg/kg          | mg/kg        | mg/kg                   | mg/kg          | mg/kg         | mg/kg       | mg/kg                           | mg/kg                             | mg/kg                             | mg/kg                             | mg/kg                                 | mg/kg                            | mg/kg                             | mg/kg                              | mg/kg  | mg/kg                              | mg/kg                              | mg/kg                                    |
| ESL - Urban R    | Residential/Public Open Space, Fi | ne (NEPM 2013)  | 65      | 105            | 125          |                         |                | 45            |             |                                 |                                   |                                   |                                   |                                       |                                  | 180                               | 120                                |  | 1,300                              | 5,600                              |  |
| EIL - Urbar      | n Residential/Public Open Space   | (NEPM 2013)     |         |                |              |                         |                |               | 170         |                                 |                                   |                                   |                                   |                                       |                                  |                                   |                                    |  |                                    |                                    |  |
|                  | Residential/Parkland/Public Open  |                 |         |                |              |                         |                |               |             |                                 |                                   |                                   |                                   |                                       | 700                              |                                   | 1,000                              |  | 2,500                              | 10,000                             |  |
| 5                | SL C - Direct Contact (CRC CARE 2 | 1 1 ( )         | 120     | 18.000         | 5,300        |                         |                | 15,000        | 1.900       |                                 |                                   |                                   |                                   |                                       | 5,100                            | NL                                | 3,800                              | NL   | 5,300                              | 7,400                              |  |
|                  | Contact Maintanence Workers (C    | ,               | 1.100   | 280.000        | 85,000       |                         |                | 230,000       | 29,000      |                                 |                                   |                                   |                                   |                                       | 82,000                           | NL                                | 62,000                             | NL   | 85,000                             | 120.000                            |  |
| Sample Name      | Sample Date                       | Start Depth (m) | 1,100   | 200,000        | 65,000       |                         |                | 230,000       | 29,000      |                                 |                                   |                                   |                                   |                                       | 82,000                           | INL                               | 02,000                             | INL  | 85,000                             | 120,000                            |  |
| SS03             | 30-Oct-19                         |                 | < 0.5   | < 0.5          | < 0.5        | < 1.0                   | < 0.5          | < 1.0         | < 0.1       | < 20                            | < 20                              | 55                                | 91                                | - 1                                   | < 20                             | < 20                              | < 20                               | < 20   | 120                                | < 50                               | 120                                      |
|                  | 30-Oct-19                         | 0.0             |         |                | -            |                         |                | -             | < 0.1       | < 20                            | < 20                              | 65                                | 76                                | -                                     | < 20                             | < 20                              | < 20                               | < 20   | 120                                | < 50                               | 120                                      |
| SS09             | 30-Oct-19                         | 0.0             | < 0.5   | < 0.5          | < 0.5        | < 1.0                   | < 0.5          | < 1.0         | < 0.1       | < 20                            | < 20                              | < 50                              | < 50                              | -                                     | < 20                             | < 20                              | < 20                               | < 20   | < 50                               | < 50                               | < 50                                     |
| SS10             | 30-Oct-19                         | 0.0             | -       | -              | -            | -                       | -              | -             | < 0.1       | < 20                            | < 20                              | < 50                              | 63                                | -                                     | < 20                             | < 20                              | < 20                               | < 20   | 56                                 | < 50                               | 56                                       |
| SS11             | 30-Oct-19                         | 0.0             | < 0.5   | < 0.5          | < 0.5        | < 1.0                   | < 0.5          | < 1.0         | 0.2         | < 20                            | 27                                | 340                               | 380                               | -                                     | < 20                             | < 20                              | 51                                 | 51   | 580                                | 170                                | 800                                      |
| SS13             | 30-Oct-19                         | 0.0             | -       | -              | -            | -                       | -              | -             | < 0.1       | < 20                            | < 20                              | 150                               | 150                               | -                                     | < 20                             | < 20                              | < 20                               | < 20   | 280                                | < 50                               | 280                                      |
| SS15             | 30-Oct-19                         | 0.0             | < 0.5   | < 0.5          | < 0.5        | < 1.0                   | < 0.5          | < 1.0         | < 0.1       | < 20                            | < 20                              | 1,500                             | 800                               | -                                     | < 20                             | < 20                              | 32                                 | 32   | 2,200                              | 160                                | 2,400                                    |
| SS18             | 30-Oct-19                         | 0.0             | -       | -              | -            | -                       | -              | -             | < 0.1       | < 20                            | < 20                              | < 50                              | 86                                | -                                     | < 20                             | < 20                              | < 20                               | < 20   | 90                                 | 75                                 | 160                                      |
| SS22             | 30-Oct-19                         | 0.0             | < 0.5   | < 0.5          | < 0.5        | < 1.0                   | < 0.5          | < 1.0         | < 0.1       | < 20                            | < 20                              | < 50                              | 60                                | -                                     | < 20                             | < 20                              | < 20                               | < 20   | 63                                 | < 50                               | 63                                       |
| SS23             | 30-Oct-19                         | 0.0             | -       | -              | -            | -                       | -              | -             | < 0.1       | < 20                            | < 20                              | 67                                | 140                               | -                                     | < 20                             | < 20                              | < 20                               | < 20   | 150                                | 74                                 | 220                                      |
| SS26             | 30-Oct-19                         | 0.0             | -       | -              | -            | -                       | -              | -             | < 0.1       | < 20                            | < 20                              | < 50                              | 83                                | -                                     | < 20                             | < 20                              | < 20                               | < 20   | 87                                 | 67                                 | 150                                      |
| SS28<br>BS10 0.1 | 30-Oct-19                         | 0.0             | < 0.5   | < 0.5<br>< 0.1 | < 0.5        | < 1.0                   | < 0.5<br>< 0.1 | < 1.0         | < 0.1       | < 20<br>< 20                    | < 20                              | <b>120</b>                        | <b>130</b><br>< 50                | - < 50                                | < 20<br>< 20                     | < 20<br>< 20                      | <b>20</b><br>< 50                  | <b>20</b><br>< 50  | <b>240</b><br>< 100                | < 50<br>< 100                      | <b>260</b> < 100                         |
| FB03 0.1         | 08-Apr-20<br>08-Apr-20            | 0.1             | < 0.1   | < 0.1          | < 0.1        | < 0.2                   | < 0.1          | < 0.3         | < 0.5       | < 20                            | < 20                              | < 50                              | < 50                              | < 50                                  | < 20                             | < 20                              | < 50                               | < 50   | < 100                              | < 100                              | < 100                                    |
| FB05_0.1         | 08-Apr-20                         | 0.1             | < 0.1   | < 0.1          | < 0.1        | < 0.2                   | < 0.1          | < 0.3         | < 0.5       | < 20                            | 20                                | < 50<br>76                        | < 50<br>88                        | < 50<br>191                           | < 20                             | < 20                              | < 50                               | < 50   | 130                                | < 100                              | 130                                      |
| MY01 0.1         | 09-Apr-20                         | 0.1             | < 0.1   | < 0.1          | < 0.1        | < 0.2                   | < 0.1          | < 0.3         | < 0.5       | < 20                            | < 20                              | < 50                              | < 50                              | < 50                                  | < 20                             | < 20                              | < 50                               | < 50   | < 100                              | < 100                              | < 100                                    |
| PG02 0.1         | 09-Apr-20                         | 0.1             | < 0.1   | < 0.1          | < 0.1        | < 0.2                   | < 0.1          | < 0.3         | < 0.5       | < 20                            | < 20                              | < 50                              | < 50                              | < 50                                  | < 20                             | < 20                              | < 50                               | < 50   | < 100                              | < 100                              | < 100                                    |
| PV07 0.7         | 08-Apr-20                         | 0.7             | < 0.1   | < 0.1          | < 0.1        | < 0.2                   | < 0.1          | < 0.3         | < 0.5       | < 20                            | < 20                              | < 50                              | < 50                              | < 50                                  | < 20                             | < 20                              | < 50                               | < 50   | < 100                              | < 100                              | < 100                                    |

Notes: - - Not analysed < - Less than laboratory limit of reporting NL - Not limiting mg/kg - Milligrams per kilogram BTEXN - Benzene, toluene, ethylbenzene, total xylenes, naphthalene Bold indicates a detection above the laboratory limit of reporting



|             |                    |                 |                 |          |              | Anions and Cati | ons                 |                                 |          |                             |                         |                                   |          |              |
|-------------|--------------------|-----------------|-----------------|----------|--------------|-----------------|---------------------|---------------------------------|----------|-----------------------------|-------------------------|-----------------------------------|----------|--------------|
|             | Analyte            |                 | Cyanide (total) | Fluoride | Free Cyanide |                 | Total Nitrogen as N | Total Kjeldahl<br>Nitrogen as N | Nitrogen | Cation Exchange<br>Capacity | Total Organic<br>Carbon | Electrical<br>Conductivity @ 25°C | pН       | Clay (<2 µm) |
|             | LOR                |                 | 5.0             | 100      | 5.0          | 5.0             | 5.0                 | 10                              | 10       | 0.05                        | 0.1                     | 10                                | 0.1      | 1.0          |
|             | Units              |                 | mg/kg           | mg/kg    | mg/kg        | mg/kg           | mg/kg               | mg/kg                           | mg/kg    | meg/100g                    | %                       | µS/cm                             | pH units | %            |
| HIL C       | - Recreational (NE | PM 2013)        |                 |          | 240          |                 |                     |                                 |          |                             |                         |                                   |          |              |
| Sample Name | Sample Date        | Start Depth (m) |                 |          | 210          | 1               |                     |                                 | 1        |                             |                         |                                   |          | 1            |
| SS03        | 30-Oct-19          | 0.0             | < 5.0           | 230      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 5.8      | -            |
| SS04        | 30-Oct-19          | 0.0             | -               | -        | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 6.4      | -            |
| SS09        | 30-Oct-19          | 0.0             | < 5.0           | 150      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 6.1      | -            |
| SS10        | 30-Oct-19          | 0.0             | -               | -        | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 6.1      | -            |
| SS11        | 30-Oct-19          | 0.0             | < 5.0           | 190      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 5.7      | -            |
| SS13        | 30-Oct-19          | 0.0             | -               | -        | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 5.9      | -            |
| SS15        | 30-Oct-19          | 0.0             | < 5.0           | 190      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 6.1      | -            |
| SS18        | 30-Oct-19          | 0.0             | -               | -        | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 6.0      | -            |
| SS22        | 30-Oct-19          | 0.0             | < 5.0           | 140      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 6.1      | -            |
| SS23        | 30-Oct-19          | 0.0             | -               | -        | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 5.5      | -            |
| SS26        | 30-Oct-19          | 0.0             | -               | -        | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 5.7      | -            |
| SS28        | 30-Oct-19          | 0.0             | < 5.0           | 110      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 5.3      | -            |
| BS10_0.1    | 08-Apr-20          | 0.1             | < 5.0           | 180      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 6.7      | -            |
| FB03_0.1    | 08-Apr-20          | 0.1             | < 5.0           | 250      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 7.1      | -            |
| FB05_0.1    | 08-Apr-20          | 0.1             | < 5.0           | 510      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 7.0      | -            |
| MY01_0.1    | 09-Apr-20          | 0.1             | < 5.0           | 290      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 7.0      | -            |
| OG26_0.1    | 07-Apr-20          | 0.1             | -               | -        | -            | 340             | < 5.0               | 2,600                           | 2,600    | -                           | -                       | -                                 | -        | -            |
| OG28_0.1    | 07-Apr-20          | 0.1             | -               | -        | -            | -               | -                   | -                               | -        | 10                          | 2.5                     | < 10                              | 5.8      | 18           |
| OG31_0.1    | 06-Apr-20          | 0.1             | -               | -        | -            | 540             | < 5.0               | 4,800                           | 4,800    | -                           | -                       | -                                 | -        | -            |
| OG40_0.1    | 06-Apr-20          | 0.1             | -               | -        | -            | 600             | 11                  | 5,500                           | 5,511    | -                           | -                       | -                                 | -        | -            |
| OG49_0.5    | 06-Apr-20          | 0.5             | -               | -        | -            | -               | -                   | -                               | -        | 4.5                         | 2.4                     | 21                                | 4.8      | 16           |
| OG53_0.1    | 09-Apr-20          | 0.1             | -               | -        | -            | -               | -                   | -                               | -        | 7.1                         | 2.5                     | 940                               | 4.7      | 19           |
| OG53_0.5    | 09-Apr-20          | 0.5             | -               | -        | -            | -               | -                   | -                               | -        | 2.5                         | 0.4                     | < 10                              | 5.2      | 17           |
| PG02_0.1    | 09-Apr-20          | 0.1             | -               | -        | < 5.0        | -               | -                   | -                               | -        | -                           | -                       | -                                 | -        | -            |
| PV07_0.7    | 08-Apr-20          | 0.7             | < 5.0           | 330      | -            | -               | -                   | -                               | -        | -                           | -                       | -                                 | 7.2      | -            |

### Notes:

- Not analysed
 - Less than laboratory limit of reporting mg/kg - Milligrams per kilogram

 $\mu S/cm$  - Microsiemens per centimeter **Bold** indicates a detection above the laboratory limit of reporting

### Criteria:

National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013).



| NAME         NAME        NAME        NAME         N  |   |          |          |           |        |           |       |                |          |             |          |                     | Metals |      |           |         |            |            |          |        |           |       |          |          |
|--|---|----------|----------|-----------|--------|-----------|-------|----------------|----------|-------------|----------|---------------------|--------|------|-----------|---------|------------|------------|----------|--------|-----------|-------|----------|----------|
|  | Analyte   | Aluminum | Antimony | Arsenic   | Barium | Beryllium | Boron | Cadmium        | Chromium | Chromium VI | Cobalt   | Copper              | Iron   | Lead | Manganese | Mercury | Molybdenum | Nickel     | Selenium | Silver | Strontium | Tin   | Vanadium | Zinc     |
|  | LOR   | 5.0      | 5.0      | 2.0       | 5.0    | 2.0       | 10    | 0.4            | 5.0      | 1.0         | 5.0      | 5.0                 | 20     | 5.0  | 5.0       | 0.1     | 5.0        | 5.0        | 2.0      | 0.2    | 5.0       | 10    | 5.0      | 5.0      |
| B          |   | mg/kg    | mg/kg    |           |        |           |       |                |          |             |          | 1                   | 1      | 1    |           |         |            |            |          |        |           |       |          |          |
|  |   |          |          |           |        |           |       |                |          |             |          |                     |        |      |           |         |            |            |          |        |           |       |          | ,        |
|  |   | 14.000   | < 5.0    | < 5.0     | 130    | < 5.0     | < 10  | < 0.2          | 25       | -           | 6.0      | 8.0                 | 13,000 | 130  | 150       | < 0.05  | < 5.0      | 14         | < 3.0    | < 5.0  | 21        | < 5.0 | 25       | 32       |
|  | D02 30-Oct-19 0.0   | 9,800    | < 5.0    | 6.0       | 79     | < 5.0     | < 10  | < 0.2          | 88       |             | 5.0      | 5.0                 | 58,000 | 36   | 92        | < 0.05  | < 5.0      | 11         | < 3.0    | < 5.0  | 10        | < 5.0 | 70       | 17       |
|  | SS01A 30-Oct-19 0.0   | -        | < 10     | 5.4       | 160    | < 2.0     | < 10  | < 0.4          | 26       |             | 6.0      | 11                  | -      | 160  | 180       | < 0.1   | < 5.0      | 17         | < 2.0    | < 0.2  | -         | < 10  | 28       | 33       |
|  |   |          |          |           |        |           |       |                |          |             |          |                     |        |      |           |         |            |            |          |        |           |       | -        |          |
| BADD         BADD        BADD         BADD         BADD  |   | ,        |          |           |        |           |       | -              |          |             |          |                     |        |      |           |         |            |            |          |        |           |       |          |          |
|  | SS06 30-Oct-19 0.0  | 10,000   | < 5.0    | < 5.0     | 110    | < 5.0     | < 10  | < 0.2          | 15       | -           | 8.0      | 7.0                 | 12,000 | 28   | 320       | < 0.05  | < 5.0      | 11         | < 3.0    | < 5.0  | 20        | < 5.0 | 9.0      | 39       |
| Solu         Solu        Solu        Solu         S  | SS08 30-Oct-19 0.0  | 1        |          |           |        |           |       |                |          |             |          |                     |        |      |           |         |            |            |          |        | -         |       | -        |          |
|  |   |          |          |           |        |           |       |                |          | < 1.0       |          |                     |        |      |           |         |            |            |          |        |           |       | -        |          |
| B          | SS11 30-Oct-19 0.0  | -        | < 5.0    | 6.0       | 95     | < 5.0     | < 10  | < 0.2          | 12       |             | < 5.0    | 9.0                 | -      | 320  | 170       | 0.06    | < 5.0      | 6.0        | < 3.0    | < 5.0  | -         | < 5.0 | 11       | 24       |
|  | SS13 30-Oct-19 0.0  | 14,000   | < 5.0    | 9.0       | 130    | < 5.0     | < 10  | < 0.2          | 28       | -           | < 5.0    | 12                  | 23,000 | 69   | 240       | < 0.05  | < 5.0      | 11         | < 3.0    | < 5.0  | 20        | < 5.0 | 21       | 28       |
|  |   |          |          |           |        |           |       |                |          | - < 1.0     |          |                     |        |      |           |         |            |            |          |        |           |       |          |          |
|  | SS16 30-Oct-19 0.0  |          | < 5.0    | < 5.0     | 130    | < 5.0     | < 10  | < 0.2          | 53       | -           | 9.0      | 12                  |        | 40   | 140       | < 0.05  | < 5.0      | 17         | < 3.0    | < 5.0  |           | < 5.0 | 41       | 19       |
|  | SS18 30-Oct-19 0.0  | 9,100    | < 5.0    | < 5.0     | 79     | < 5.0     | < 10  | < 0.2          | 27       | -           | 6.0      | 6.0                 | 8,700  | 100  | 140       | < 0.05  | < 5.0      | 10         | < 3.0    | < 5.0  | 19        | < 5.0 | 15       | 15       |
| Sing         Sing <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>   |   |          |          |           |        |           |       |                |          | 1           |          |                     |        |      |           |         |            |            |          |        |           |       |          |          |
| Sect         Sect <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>   |   |          |          |           |        |           |       |                |          | -           |          |                     |        |      |           |         |            |            |          |        |           |       |          |          |
| B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         C         B         B         B         C         B         B         B         C         C         B         C         C         B         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C <thc< th="">         C         <thc< th=""> <thc< th=""></thc<></thc<></thc<>  | SS22 30-Oct-19 0.0  | -        | < 5.0    | < 5.0     | 98     | < 5.0     | < 10  | < 0.2          | 61       | < 1.0       | 15       | 9.0                 | -      | 54   | 290       | < 0.05  | < 5.0      | 17         | < 3.0    | < 5.0  | -         | < 5.0 | 38       | 29       |
| Str          Str         Str     <   |   |          |          |           |        |           |       |                |          | -           |          |                     |        |      |           |         |            |            |          |        |           |       |          |          |
| Sole         Sole <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>   |   |          |          |           |        |           |       |                |          | -           |          |                     |        |      |           |         |            |            |          |        |           |       |          |          |
| Sole         Bob         Col         Bob         Col         Col <td>SS27 30-Oct-19 0.0</td> <td>27,000</td> <td>&lt; 5.0</td> <td>150</td> <td>230</td> <td>&lt; 5.0</td> <td>&lt; 10</td> <td>&lt; 0.2</td> <td>30</td> <td>-</td> <td>7.0</td> <td>16</td> <td>29,000</td> <td>580</td> <td>340</td> <td>0.24</td> <td>&lt; 5.0</td> <td>22</td> <td>5.0</td> <td>&lt; 5.0</td> <td>69</td> <td>&lt; 5.0</td> <td>38</td> <td>58</td>                                     | SS27 30-Oct-19 0.0  | 27,000   | < 5.0    | 150       | 230    | < 5.0     | < 10  | < 0.2          | 30       | -           | 7.0      | 16                  | 29,000 | 580  | 340       | 0.24    | < 5.0      | 22         | 5.0      | < 5.0  | 69        | < 5.0 | 38       | 58       |
| Start         Start <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>   |   |          |          |           |        |           |       |                |          | 1           |          |                     |        |      |           |         |            |            |          |        |           |       |          |          |
| byb         byb         b <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td>  |   | ,        |          |           |        |           |       | -              | -        |             |          |                     |        |      |           |         |            |            |          |        |           |       | -        |          |
| CODE         Diff         Diff <thdif< th="">         Diff         Diff         D</thdif<>   | BS06_0.1 08-Apr-20 0.1  | -        | -        | 4.0       | -      | -         | -     | < 0.4          | 18       | -           | -        | 6.9                 | -      | 16   | -         | -       | -          | 8.0        | -        | -      | -         | -     | -        | 40       |
| Generic Barbon         Barbon         Control         Control <thcontrol< th="">         Contro         C</thcontrol<>  |   |          |          |           |        |           |       | -              | -        |             |          |                     | 1      |      |           |         |            |            |          |        | -         |       |          |          |
| cmm1         bik wo         bik wo <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>   |   |          |          |           |        |           |       | -              |          |             |          |                     | 1      |      |           |         |            | -          |          |        | -         |       |          |          |
| COMPAR         PARPE         C.         C.         PARP         C.         C.         C.         C.0         C.0 <thc.0< th=""> <thc.0< th=""></thc.0<></thc.0<>   | CG03_0.1 08-Apr-20 0.1  |          |          | < 2.0     |        |           |       | < 0.4          | 14       | -           |          | < 5.0               | 1      | 9.4  | -         |         |            | < 5.0      |          | -      |           |       | -        | 15       |
| Corr         Corr <th< td=""><td></td><td>-</td><td>-</td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td>1</td><td>-</td><td></td><td>-</td><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td><td></td><td>-</td><td>-</td><td>1</td><td></td></th<>   |   | -        | -        |           | -      |           | -     |                |          | 1           | -        |                     | -      |      |           | -       | -          |            | -        |        | -         | -     | 1        |          |
| COMB         O         I   |   | -        | -        |           | -      | -         | -     | -              | -        | 1           | -        |                     | 1      |      | -         | -       | -          |            | -        | -      | -         | -     | -        |          |
| COSO 10         MayO2         O.1         C.         C.D         C.S         C.  | CG08_0.1 08-Apr-20 0.1  | -        | -        | 4.0       | -      | -         | -     | < 0.4          | 35       | -           | -        | 13                  | -      | 21   | -         | -       | -          | 23         | -        | -      | -         | -     | -        | 50       |
| COLO         Observed         Observed <th< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td><td></td></th<> |   |          |          |           | -      |           |       |                |          |             | -        |                     |        |      |           |         |            |            |          |        | -         | -     | -        |          |
| CG11         Obder/D         O.1         C.1         C.1         S.1         C.1         C.1         S.1         C.1         S.1         C.1         S.1         S.  |   |          |          |           | -      |           |       |                |          | -           |          |                     |        |      | -         |         |            |            | 1        |        | -         | -     | + +      | -        |
| HBMD         O         O         O         O         O         O         O         O         C <thc< th="">         C         C         C</thc<>   | CG11_0.1 08-Apr-20 0.1  | -        | -        | 3.1       | -      | -         | -     | < 0.4          | 25       | -           | -        | 13                  | -      | 17   | -         | -       | -          | 15         | -        | -      |           |       | -        | 49       |
| PHO         O         O         C         C         C         C         C         C         C         D         C  | FB01_0.1 08-Apr-20 0.1  |          |          | 3.2       |        |           |       | < 0.4          |          |             |          | < 5.0               |        | 16   | -         |         |            | < 5.0      |          |        |           |       | -        |          |
| PB03.0         08/4pc3         0.1         c         c         0.4         11         c         c         5.0         c         c         c         0.4         30         c         c         c         c         0.4         30         c         130         c         130         c         130         c <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td>   |   |          |          |           |        | -         |       |                |          |             |          |                     |        |      |           |         |            |            |          |        | -         |       | -        |          |
| MM00101       02/4pr20       0.1        3.1         0.4       7.8        1.7       1.7       2.3        1.5        1.5        1.5        1.5        1.5  | FB04_0.1 08-Apr-20 0.1  | -        | -        | 2.2       | -      | -         | -     | < 0.4          | 11       | -           | -        | < 5.0               | -      | 13   | -         | -       | -          | < 5.0      | -        | -      | -         | -     | -        | 9.6      |
| MM03_0.1       024pr20       0.1        -       2.2       -       -       -       8.6       -       5.7       - <td>MW01_0.1 02-Apr-20 0.1</td> <td></td> <td></td> <td>180</td> <td></td> <td></td> <td></td> <td>&lt; 0.4</td> <td>7.8</td> <td></td> <td></td> <td>17</td> <td></td> <td>23</td> <td></td> <td></td> <td></td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>130</td>   | MW01_0.1 02-Apr-20 0.1  |          |          | 180       |        |           |       | < 0.4          | 7.8      |             |          | 17                  |        | 23   |           |         |            | 15         |          |        |           |       |          | 130      |
| MM02.01       09Apr20       0.1        4.4        -       < <0.0       21        <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0       <0.0  |   |          |          |           | _      |           |       |                |          |             |          |                     |        |      | _         |         |            |            |          |        |           |       |          |          |
| MY03 0.1       0-1       -       -       -       -       -       -       -       -       -       -       -       -       -       13       -       -       -       5.2       -       13       -       -       5.2       -       -       5.2       -       13       -       -       5.2       -       15       -       -       -       5.2       -       15       -       -       -       6.6       -       -       13       -       -       -       6.6       -       -       -       13       -       -       15       -       -       -       6.6       -       -       13       -       -       15       -       -       6.6       -       -       13       -       -       15       -       -       -       6.6       -       13       -       -       13       -       -       13       -       -       -       6.6       -       13       -       11       -       -       -       6.5       -       -       13       -       11       -       -       -       14       -       13       -       -       14 <td>MY01_0.1 09-Apr-20 0.1</td> <td>-</td> <td>-</td> <td>4.4</td> <td>-</td> <td>-</td> <td>-</td> <td>&lt; 0.4</td> <td>27</td> <td>&lt; 1.0</td> <td>-</td> <td>13</td> <td>-</td> <td>21</td> <td>-</td> <td>&lt; 0.1</td> <td>&lt; 5.0</td> <td>16</td> <td>&lt; 2.0</td> <td>&lt; 0.2</td> <td>-</td> <td>&lt; 10</td> <td>-</td> <td>30</td>   | MY01_0.1 09-Apr-20 0.1  | -        | -        | 4.4       | -      | -         | -     | < 0.4          | 27       | < 1.0       | -        | 13                  | -      | 21   | -         | < 0.1   | < 5.0      | 16         | < 2.0    | < 0.2  | -         | < 10  | -        | 30       |
| MMOS 0.1       0.10       0.1       0.10  | MY03_0.1 09-Apr-20 0.1  | -        | -        | < 2.0     | -      | -         | -     | < 0.4          | 12       | -           | -        | < 5.0               | -      | 13   | -         | -       | -          | 5.2        | -        | -      | -         | -     | -        | 13       |
| OG1011       Oct-Apr-20       O.1       ···       O.0       ···  |   |          |          |           |        |           |       |                |          |             |          |                     | 1      |      |           |         |            |            |          |        |           |       |          |          |
| 06.4pr-20       0.1        4.8         <0.4       29        17        24        9.0          15         0604 0.1       06 Apr-20       0.1        4.2        <0.4       26        14        130         16         16         16         16         16         17        14        14        16         16         16         16         17        14        14        14        14        14        14        14        140        140        140        140        140        140        140        140        140        140        140        140        140        140  | OG01_0.1 06-Apr-20 0.1  | -        | -        | 6.0       | -      | -         | -     | < 0.4          | 36       | -           | -        | 11                  | -      | 320  | -         | -       | -          | 16         | -        | -      | -         | -     | -        | 24       |
| OGG_0.1       Of-Apr-20       O.1       ···  | OG03_0.1 06-Apr-20 0.1  | -        |          | 4.8       | _      | -         | -     | < 0.4          | 29       | -           | -        | 17                  | -      | 24   | -         | -       | -          | 9.0        | -        | -      | -         | -     | -        | 15       |
| OGG_0.1       06-Apr-20       0.1        4.9        <-0.4       44        14        400        26        1.0        27         OG7_0.1       06-Apr-20       0.1        3.0         18        18        140         400 <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  |   |          |          |           | -      |           |       |                |          |             |          |                     | 1      |      | -         |         |            |            |          |        |           |       |          |          |
| $0030_{-1}$ $0.7 \text{Apr-20}$ $0.1$ $\cdots$ $7.0$ $\cdots$ $1.0$ $\cdots$ $21$ $\cdots$ $25$ $\cdots$ $42$ $\cdots$ $1.0$ $1.0$ $38$ $000_{-1}$ $0.7 \text{Apr-20}$ $0.1$ $\cdots$ $2.0$ $\cdots$ $1.0$   | OG06_0.1 06-Apr-20 0.1  | -        | -        | 4.9       | -      | -         | -     | < 0.4          | 44       | -           |          | 14                  | -      | 400  | -         | -       | -          | 26         | -        | -      | -         | -     | -        | 27       |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $  | OG08_0.1 07-Apr-20 0.1  |          |          | 7.0       | -      |           |       |                |          | -           | <u> </u> | 21                  |        |      | -         |         |            |            |          |        |           |       |          | 38       |
| OG11_0.5       02-Apr-20       0.5        9.4        <-0.4       32        16        17        10          27         OG12_0.1       06-Apr-20       0.1        2.1         -       10        10        10        10        27         OG12_0.1       06-Apr-20       0.1        2.1          10        130        10        10        26         26         OG13_0.1       06-Apr-20       0.1          10  |   |          |          |           | -      | 1         |       |                |          | 1           |          |                     | 1      |      | -         |         |            |            |          |        |           |       | 1        |          |
| OG13_0.1       06-Apr-20       0.1       -       < 2.0       -       -       < 4.4       4.2       -       14       -       -       28       -       -       -       73         OG13_0.7       06-Apr-20       0.7       -       -        -       42       -       -       18       -       14       -       -       28       -       -       -       73         OG13_0.7       06-Apr-20       0.7       -       <       <         14       -       -       28       -       -        73         0613_0.7       06-Apr-20       0.7       -   | OG11_0.5 02-Apr-20 0.5  | -        | -        | 9.4       |        | -         | -     | < 0.4          | 32       | -           |          | 16                  | -      | 17   |           | -       | -          | 10         | -        | -      | -         | -     | -        | 27       |
| OG13_0.7       06-Apr-20       0.7       -       -       -       -       -       -       12       -       11       -       -       12       -       -       89         0G14_0.1       07-Apr-20       0.1       -       12       -       -       17       -       -       19       -       -       6.2       -       -       -       89  |   |          |          |           | -      |           |       |                |          |             | -        |                     |        |      | -         |         |            |            |          |        |           |       |          |          |
|  | OG13_0.7 06-Apr-20 0.7  |          |          | < 2.0     |        |           |       | < 0.4          | 26       | 1           |          | 12                  |        | 11   |           |         |            | 22         |          |        |           |       | -        | 89       |
|  | OG14_0.1         07-Apr-20         0.1           OG14_0.5         07-Apr-20         0.5 |          |          | 12<br>8.5 | -      | -         | -     | < 0.4<br>< 0.4 | 20       | -           | -        | < 5.0<br><b>5.0</b> | -      | 19   | -         | -       | -          | 6.2<br>6.9 | -        | -      |           | -     | -        | 20<br>19 |



|                      |                                      |                 |          |          |                     |        |           |        |                |            |             |        |                  | Metals           |            |           |         |            |                     |          |        |           |       |          |            |
|----------------------|--------------------------------------|-----------------|----------|----------|---------------------|--------|-----------|--------|----------------|------------|-------------|--------|------------------|------------------|------------|-----------|---------|------------|---------------------|----------|--------|-----------|-------|----------|------------|
|                      | Analyte                              |                 | Aluminum | Antimony | Arsenic             | Barium | Beryllium | Boron  | Cadmium        | Chromium   | Chromium VI | Cobalt | Copper           | Iron             | Lead       | Manganese | Mercury | Molybdenum | Nickel              | Selenium | Silver | Strontium | Tin   | Vanadium | Zinc       |
|                      | LOR                                  |                 | 5.0      | 5.0      | 2.0                 | 5.0    | 2.0       | 10     | 0.4            | 5.0        | 1.0         | 5.0    | 5.0              | 20               | 5.0        | 5.0       | 0.1     | 5.0        | 5.0                 | 2.0      | 0.2    | 5.0       | 10    | 5.0      | 5.0        |
|                      | Units                                |                 | mg/kg    | mg/kg    | mg/kg               | mg/kg  | mg/kg     | mg/kg  | mg/kg          | mg/kg      | mg/kg       | mg/kg  | mg/kg            | mg/kg            | mg/kg      | mg/kg     | mg/kg   | mg/kg      | mg/kg               | mg/kg    | mg/kg  | mg/kg     | mg/kg | mg/kg    | mg/kg      |
|                      | - Recreational (NEPI                 |                 |          |          | 300                 |        | 90        | 20,000 | 90             |            | 300         | 300    | 17,000           |                  | 600        | 19,000    | 80      |            | 1,200               | 700      |        |           |       |          | 30,000     |
| Sample Name          | dential/Public Open S<br>Sample Date | Start Depth (m) |          |          | 100                 |        |           |        |                | 500        |             |        | 120              |                  | 1,100      |           |         |            | 120                 |          |        |           |       |          | 260        |
| OG15 0.1             | 07-Apr-20                            | 0.1             | -        | -        | 2.8                 | -      | -         | -      | < 0.4          | 15         | -           |        | < 5.0            | -                | 12         | -         | -       | -          | < 5.0               | -        | -      | -         | -     | -        | 15         |
| OG15_0.7             | 07-Apr-20                            | 0.7             | -        | -        | 4.1                 | -      | -         | -      | < 0.4          | 27         | -           | -      | 6.0              | -                | 23         | -         | -       | -          | 8.0                 | -        | -      | -         | -     | -        | 21         |
| OG16_0.1             | 07-Apr-20                            | 0.1             | -        | -        | 2.9                 | -      | -         | -      | < 0.4          | 19         | -           | -      | 5.4              | -                | 290        | -         | -       | -          | 6.9                 | -        | -      | -         | -     | -        | 22         |
| OG16_0.4<br>OG17 0.1 | 07-Apr-20<br>07-Apr-20               | 0.4             | -        | -        | 2.3                 | -      | -         | -      | < 0.4          | 22         | -           | -      | < 5.0            | -                | 28<br>92   | -         | -       | -          | 6.9<br>5.5          | -        | -      | -         | -     | -        | 19<br>14   |
| OG18_0.1             | 07-Apr-20                            | 0.1             | -        | -        | 2.3                 | -      | -         | -      | < 0.4          | 15         | -           | -      | < 5.0            | -                | 49         | -         | -       | -          | 5.4                 | -        | -      | -         | -     | -        | 16         |
| OG19_0.1<br>OG20 0.1 | 07-Apr-20<br>07-Apr-20               | 0.1 0.1         | -        | -        | 5.4<br>2.3          | -      | -         | -      | < 0.4<br>< 0.4 | 27         | -           | -      | <b>8.3</b> < 5.0 | -                | 35<br>130  | -         | -       | -          | 12<br>7.3           | -        | -      | -         | -     | -        | 24<br>12   |
| OG20_0.1<br>OG20_0.4 | 07-Apr-20<br>07-Apr-20               | 0.1             | -        | -        | 6.8                 | -      | -         | -      | < 0.4          | 47         | -           | -      | < 5.0<br>12      | -                | 50         | -         | -       | -          | 14                  | -        | -      | -         | -     | -        | 20         |
| OG21_0.1             | 06-Apr-20                            | 0.1             | -        | -        | 4.9                 | -      | -         | -      | < 0.4          | 28         | -           | -      | 11               | -                | 36         | -         | -       | -          | 14                  | -        | -      | -         | -     | -        | 22         |
| OG22_0.1             | 07-Apr-20                            | 0.1             | -        | -        | < 2.0               | -      | -         | -      | < 0.4          | 12         | -           | -      | 8.5              | -                | 15         | -         | -       | -          | 6.1                 | -        | -      | -         | -     | -        | 33         |
| OG23_0.1<br>OG24_0.1 | 07-Apr-20<br>07-Apr-20               | 0.1 0.1         | -        | -        | 3.1<br>2.5          | -      | -         | -      | < 0.4<br>< 0.4 | 30<br>16   | -           | -      | <b>8.8</b> < 5.0 | -                | 65<br>16   | -         | -       | -          | <b>15</b><br>< 5.0  | -        | -      | -         | -     | -        | 22<br>21   |
| OG24_0.5             | 07-Apr-20                            | 0.5             | -        | -        | 2.5                 | -      | -         | -      | < 0.4          | 19         | -           | -      | 5.1              | -                | 14         | -         | -       | -          | 5.0                 | -        | -      | -         | -     | -        | 17         |
| OG25_0.1             | 07-Apr-20                            | 0.1             | -        | -        | 3.5                 | -      | -         | -      | < 0.4          | 78         | -           | -      | 24               | -                | 53         | -         | -       | -          | 44                  | -        | -      | -         | -     | -        | 39         |
| OG25_1.0<br>OG26_0.1 | 07-Apr-20<br>07-Apr-20               | 1.0<br>0.1      | -        | -        | 4.8                 | -      | -         | -      | < 0.4<br>< 0.4 | 81<br>20   | -           | -      | 22               | -                | 21<br>98 * | -         | -       | -          | 59<br>10            | -        | -      | -         | -     | -        | 39<br>42   |
| OG27 0.1             | 07-Apr-20                            | 0.1             | -        | -        | 3.8                 | -      | -         | -      | < 0.4          | 26         | -           | -      | 7.8              |                  | 15         | -         | -       | -          | 14                  | -        | -      | -         | -     | -        | 19         |
| OG28_0.1             | 07-Apr-20                            | 0.1             | -        | -        | 7.2                 | -      | -         | -      | < 0.4          | 49         | -           | -      | 17               | 30,000           | 76         | -         | -       | -          | 34                  | -        | -      | -         | -     | -        | 43         |
| OG29_0.1             | 06-Apr-20                            | 0.1             | -        | -        | 3.8<br>6.7          | -      | -         | -      | < 0.4          | 38         | -           | -      | 11               | -                | 23         | -         | -       | -          | 25                  | -        | -      | -         | -     | -        | 47         |
| OG30_0.1<br>OG31 0.1 | 06-Apr-20<br>06-Apr-20               | 0.1 0.1         | -        | -        | 49                  | -      | -         | -      | < 0.4<br>< 0.4 | 54<br>32   | -           | -      | 18<br>15         | -                | 28<br>43   | -         | -       | -          | 40<br>23            | -        | -      | -         | -     | -        | 60<br>69   |
| OG32_0.1             | 06-Apr-20                            | 0.1             | -        | -        | 5.1                 | -      | -         | -      | < 0.4          | 23         | -           | -      | 7.0              | -                | 34         | -         | -       | -          | 9.3                 | -        | -      | -         | -     | -        | 29         |
| OG33_0.1             | 06-Apr-20                            | 0.1             | -        | -        | 3.5                 | -      | -         | -      | < 0.4          | 21         | -           | -      | 13               | -                | 91         | -         | -       | -          | 19                  | -        | -      | -         | -     | -        | 27         |
| OG34_0.1<br>OG35 0.1 | 06-Apr-20<br>06-Apr-20               | 0.1             | -        | -        | < 2.0<br>5.6        | -      | -         | -      | < 0.4          | 10<br>12   | -           | -      | < 5.0<br>5.5     | -                | 38<br>26   | -         | -       | -          | < 5.0<br><b>7.4</b> | -        | -      | -         | -     | -        | 12<br>18   |
| OG36_0.1             | 06-Apr-20                            | 0.1             | -        | -        | 9.1                 | -      | -         | -      | < 0.4          | 27         | -           | -      | 11               | -                | 170        | -         | -       | -          | 17                  | -        | -      | -         | -     | -        | 28         |
| OG36_0.6             | 06-Apr-20                            | 0.6             | -        | -        | 10*                 | -      | -         | -      | < 0.4          | 27         | -           | -      | 12               | -                | 33         | -         | -       | -          | 11                  | -        | -      | -         | -     | -        | 23         |
| OG37_0.1<br>OG38 0.1 | 06-Apr-20<br>06-Apr-20               | 0.1             | -        | -        | < 2.0<br><b>3.0</b> | -      | -         | -      | < 0.4          | 6.8<br>130 | -           | -      | < 5.0<br>44      | -                | 8.6<br>350 | -         | -       | -          | < 5.0<br><b>100</b> | -        | -      | -         | -     | -        | 9.8<br>100 |
| OG39_0.1             | 06-Apr-20                            | 0.1             | -        | -        | 3.2                 | -      | -         | -      | < 0.4          | 39         | -           | -      | 11               | -                | 60         | -         | -       | -          | 19                  | -        | -      | -         | -     | -        | 34         |
| OG40_0.1             | 06-Apr-20                            | 0.1             | -        | -        | 5.0                 | -      | -         | -      | < 0.4          | 27         | -           | -      | 13               | -                | 52         | -         | -       | -          | 17                  | -        | -      | -         | -     | -        | 35         |
| OG41_0.1<br>OG42 0.1 | 06-Apr-20<br>07-Apr-20               | 0.1             | -        | -        | 4.5                 | -      | -         | -      | < 0.4          | 29<br>170  | -           | -      | 10<br>30         | -                | 17         | -         | -       | -          | 15<br>72            | -        | -      | -         | -     | -        | 29<br>74   |
| OG42_0.1<br>OG43_0.1 | 07-Apr-20<br>07-Apr-20               | 0.1             | -        | -        | < 2.0               | -      | -         | -      | < 0.4<br>< 0.4 | 79         |             | -      | 9.2              |                  | 170<br>47  | -         | -       | -          | 26                  | -        | -      | -         | -     | -        | 25         |
| OG44_0.1             | 07-Apr-20                            | 0.1             | -        | -        | 2.7                 | -      | -         | -      | < 0.4          | 130        | -           | -      | 26               | -                | 17         | -         | -       | -          | 69                  | -        | -      | -         | -     | -        | 71         |
| OG45_0.1             | 07-Apr-20                            | 0.1             | -        | -        | 4.6                 | -      | -         | -      | < 0.4<br>< 0.4 | 60         | -           | -      | 18               | -                | 470        | -         | -       | -          | 28                  | -        | -      | -         | -     | -        | 36<br>34   |
| OG46_0.1<br>OG47 0.1 | 06-Apr-20<br>06-Apr-20               | 0.1 0.1         | -        | -        | 4.6                 | -      | -         | -      | < 0.4          | 43<br>33   | -           | -      | 15<br>18         | -                | 29<br>100  | -         | -       | -          | 28<br>21            | -        | -      | -         | -     | -        | 34<br>56   |
| OG48_0.1             | 06-Apr-20                            | 0.1             | -        | -        | 2.0                 | -      | -         | -      | < 0.4          | 17         | -           | -      | 6.9              | -                | 19         | -         | -       | -          | < 5.0               | -        | -      | -         | -     | -        | 13         |
| OG49_0.1             | 06-Apr-20                            | 0.1<br>0.5      | -        | -        | 2.8                 | -      | -         | -      | < 0.4          | 17         | -           | -      | 12               | -                | 22         | -         | -       | -          | 6.5                 | -        | -      | -         | -     | -        | 12         |
| OG49_0.5<br>OG50 0.1 | 06-Apr-20<br>09-Apr-20               | 0.5             | -        | -        | 2.2                 | -      | -         | -      | - < 0.4        | - 67       | -           | -      | - 12             | 14,000           | - 25       | -         | -       | -          | - 23                | -        | -      | -         | -     | -        | - 22       |
| OG51_0.1             | 09-Apr-20                            | 0.1             | -        | -        | 2.4                 | -      | -         | -      | < 0.4          | 87         | -           | -      | 13               | -                | 21         | -         | -       | -          | 26                  | -        | -      | -         | -     | -        | 28         |
| OG52_0.1             | 09-Apr-20                            | 0.1             | -        | -        | < 2.0               | -      | -         | -      | < 0.4          | 13         | -           | -      | < 5.0            | -                | 12         | -         | -       | -          | < 5.0               | -        | -      | -         | -     | -        | 22         |
| OG53_0.1<br>OG53_0.5 | 09-Apr-20<br>09-Apr-20               | 0.1<br>0.5      | -        | -        | 12                  | -      | -         | -      | < 0.4          | 37         | -           | -      | 13               | 23,000<br>19,000 | 81         | -         | -       | -          | 18                  | -        | -      | -         | -     | -        | 27         |
| PV01_0.1             | 09-Apr-20<br>08-Apr-20               | 0.5             | -        | -        | 6.2                 | -      | -         | -      | < 0.4          | 35         | -           | -      | 9.9              |                  | 52         | -         | -       | -          | 23                  | -        | -      | -         | -     | -        | 38         |
| PV03_0.1             | 08-Apr-20                            | 0.1             | -        | -        | 180                 | -      | -         | -      | < 0.4          | 25         | -           | -      | 22               | -                | 59         | -         | -       | -          | 36                  | -        | -      | -         | -     | -        | 98         |
| PV05_0.1             | 08-Apr-20                            | 0.1<br>0.7      | -        | -        | 79                  | -      | -         | -      | < 0.4          | 27         | -           | -      | 17               | -                | 58         | -         | -       | -          | 22                  | -        | -      | -         | -     | -        | 130        |
| PV07_0.7<br>PV10_0.1 | 08-Apr-20<br>08-Apr-20               | 0.7             | -        | -        | 5.3<br>8.0          | -      | -         | -      | < 0.4<br>< 0.4 | 25<br>30   | < 1.0       | -      | 7.6              | -                | 17<br>45   | -         | < 0.1   | < 5.0      | 14<br>18            | < 2.0    | < 0.2  | -         | < 10  | -        | 37<br>94   |
| SD01                 | 09-Apr-20                            | 0.0             | -        | -        | 35 *                | -      | -         | -      | < 0.4          | 17         | -           | -      | 10               | -                | 16         | -         | -       | -          | 11                  | -        | -      | -         | -     | -        | 39         |
| SD02                 | 09-Apr-20                            | 0.0             | -        | -        | 2.3                 | -      | -         | -      | < 0.4          | 7.6        | -           |        | < 5.0            | -                | 6.3        |           |         | -          | < 5.0               | -        |        |           | -     | -        | 12         |

 SD02
 09-Apr-20
 0.0
 2.3
 <</th>
 0.4
 7.6

 Notes:
 Version

Criteria: National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013).



|                   |  |                   |         |           |       |         |          |             |        |        | Ме    | tals  |           |         |            |        |          |        |       |       |
|-------------------|--|-------------------|---------|-----------|-------|---------|----------|-------------|--------|--------|-------|-------|-----------|---------|------------|--------|----------|--------|-------|-------|
|                   | Analyte  |                   | Arsenic | Beryllium | Boron | Cadmium | Chromium | Chromium VI | Cobalt | Copper | Iron  | Lead  | Manganese | Mercury | Molybdenum | Nickel | Selenium | Silver | Tin   | Zinc  |
|                   | LOR<br>Units<br>HIL A - Residential (NEPM 2013)  |                   | 2.0     | 2.0       | 10    | 0.4     | 5.0      | 1.0         | 5.0    | 5.0    | 20    | 5.0   | 5.0       | 0.1     | 5.0        | 5.0    | 2.0      | 0.2    | 10    | 5.0   |
|                   | Units  |                   | mg/kg   | mg/kg     | mg/kg | mg/kg   | mg/kg    | mg/kg       | mg/kg  | mg/kg  | mg/kg | mg/kg | mg/kg     | mg/kg   | mg/kg      | mg/kg  | mg/kg    | mg/kg  | mg/kg | mg/kg |
| HIL A             | LOR<br>Units<br>HIL A - Residential (NEPM 2013)<br>Irban Residential/Public Open Space (NEPM 201<br>Ie Name Sample Date Start Depth (m |                   | 100     | 60        | 4,500 | 20      |          | 100         | 100    | 6,000  |       | 300   | 3,800     | 40      |            | 400    | 200      |        |       | 7,400 |
| EIL - Urban Resid | lential/Public Open S  | Space (NEPM 2013) | 100     |           |       |         | 500      |             |        | 120    |       | 1,100 |           |         |            | 120    |          |        |       | 260   |
| Sample Name       | Units<br>HIL A - Residential (NEPM 2013)<br>ban Residential/Public Open Space (NEPM 2<br>Name Sample Date Start Depth                  |                   |         |           |       |         |          |             |        |        |       |       |           |         |            |        |          |        |       |       |
| PG01_0.1          | 09-Apr-20  | 0.1               | 10 *    | -         | -     | < 0.4   | 62 *     | -           | -      | 13     | -     | 17    | -         | -       | -          | 25     | -        | -      | -     | 46    |
| PG02_0.1          | 09-Apr-20  | 0.1               | 5.2     | < 2.0     | < 10  | < 0.4   | 21       | < 1.0       | 5.3    | 9.4    | -     | 31    | 320       | < 0.1   | -          | 10     | < 2.0    | -      | -     | 89    |
| PG03_0.1          | 09-Apr-20  | 0.1               | 4.5     | -         | -     | < 0.4   | 23       | -           | -      | 14     | -     | 20    | -         | -       | -          | 14     | -        | -      | -     | 44    |
| PG04_0.1          | 09-Apr-20  | 0.1               | 4.3     | -         | -     | < 0.4   | 22       | -           | -      | 8.7    | -     | 27    | -         | -       | -          | 12     | -        | -      | -     | 39    |
| PG05_0.1          | 09-Apr-20  | 0.1               | 6.2     | -         | -     | < 0.4   | 22       | -           | -      | 11     | -     | 22    | -         | -       | -          | 11     | -        | -      | -     | 47    |

Notes: - - Not analysed < - Less than laboratory limit of reporting mg/kg - Milligrams per kilogram Bold indicates a detection above the laboratory limit of reporting "\*" denotes duplicate/triplicate sample result adopted for analytical use due to RPD >50% Highlighting indicates an exceedance of the corresponding criteria (highlighting corresponds to the guideline with the highest criteria value where analytical result exceeds more than one guideline) RPD - Relative Percentage Difference

Criteria: National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013).



|                   |                     |                   |         |        |           |       |         |          |        | Metals |       |           |         |        |          |          |       |
|-------------------|---------------------|-------------------|---------|--------|-----------|-------|---------|----------|--------|--------|-------|-----------|---------|--------|----------|----------|-------|
|                   | Analyte             |                   | Arsenic | Barium | Beryllium | Boron | Cadmium | Chromium | Cobalt | Copper | Lead  | Manganese | Mercury | Nickel | Selenium | Vanadium | Zinc  |
|                   | LOR                 |                   | 2.0     | 2.0    | 2.0       | 10    | 0.4     | 5.0      | 5.0    | 5.0    | 5.0   | 5.0       | 0.1     | 5.0    | 2.0      | 5.0      | 5.0   |
|                   | Units               |                   | mg/kg   | mg/kg  | mg/kg     | mg/kg | mg/kg   | mg/kg    | mg/kg  | mg/kg  | mg/kg | mg/kg     | mg/kg   | mg/kg  | mg/kg    | mg/kg    | mg/kg |
| HIL A             | - Residential (NEP  | M 2013)           | 100     |        | 60        | 4,500 | 20      |          | 100    | 6,000  | 300   | 3,800     | 40      | 400    | 200      |          | 7,400 |
| EIL - Urban Resid | lential/Public Open | Space (NEPM 2013) | 100     |        |           |       |         | 500      |        | 120    | 1,100 |           |         | 120    |          |          | 260   |
| Sample Name       | Sample Date         | Start Depth (m)   |         |        |           |       |         |          |        |        |       |           |         |        |          |          |       |
| AV01              | 03-Mar-21           | 0.0               | 6.0     | 100    | < 1.0     | <50   | < 1.0   | 25       | 4.0    | 10     | 59    | 45        | <0.1    | 14     | <5       | 26       | 21    |
| AV02              | 03-Mar-21           | 0.0               | 15      | 220    | 1.0       | <50   | < 1.0   | 33       | 16     | 16     | 318   | 660       | <0.1    | 28     | <5       | 38       | 36    |

### Notes:

- - Not analysed

< - Less than laboratory limit of reporting

mg/kg - Milligrams per kilogram

**Bold** indicates a detection above the laboratory limit of reporting "\*" denotes duplicate/triplicate sample result adopted for analytical use due to RPD >50%

Highlighting indicates an exceedance of the corresponding criteria (highlighting corresponds to the guideline with the highest criteria value where analytical result exceeds more than one guideline) RPD - Relative Percentage Difference

### Criteria:

National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013).



### Table 3C Soil Analytical Data - Metals Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|             | Analyte            |                 | Metals |
|-------------|--------------------|-----------------|--------|
|             |                    |                 | Lead   |
|             | LOR                |                 | 5.0    |
|             | Units              |                 | mg/kg  |
| HIL A       | - Residential (NEP | M 2013)         | 300    |
| Sample Name | Sample Date        | Start Depth (m) |        |
| SB01_0.15   | 05-Jan-21          | 0.15            | 12     |
| SB02_0.1    | 05-Jan-21          | 0.1             | 16     |
| SB03_0.15   | 05-Jan-21          | 0.15            | 13     |
| SB04_0.1    | 05-Jan-21          | 0.1             | 11     |
| SB05_0.1    | 05-Jan-21          | 0.1             | 11     |
| SB06_0.1    | 05-Jan-21          | 0.1             | 12     |
| SB07_0.1    | 05-Jan-21          | 0.1             | 35     |
| SB08_0.1    | 05-Jan-21          | 0.1             | 33     |
| SB09_0.1    | 05-Jan-21          | 0.1             | 17     |
| SB10_0.1    | 05-Jan-21          | 0.1             | 19     |
| SB11_0.1    | 05-Jan-21          | 0.1             | 16     |
| SB12_0.1    | 05-Jan-21          | 0.1             | 21     |
| SB13_0.1    | 05-Jan-21          | 0.1             | 52     |
| SB14_0.1    | 05-Jan-21          | 0.1             | 16     |

Notes: mg/kg - Milligrams per kilogram Bold indicates a detection above the laboratory limit of reporting

Criteria:

National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013).



| Number         Number<   |                      |                       |                 |             |               |                |            |              |            |              |        |          | Poly               | cyclic Aromatic Hydroca | arbons               |                |                         |                       |                      |           |       |     |
|---|----------------------|-----------------------|-----------------|-------------|---------------|----------------|------------|--------------|------------|--------------|--------|----------|--------------------|-------------------------|----------------------|----------------|-------------------------|-----------------------|----------------------|-----------|-------|-----|
| Note         No         No        No        No         No<  |                      | Analyte               |                 | Naphthalene | Acenaphthylen | e Acenaphthene | e Fluorene | Phenanthrene | Anthracene | Fluoranthene | Pyrene | Chrysene | Benzo[a]anthracene | Benzo[b]fluoranthene    | Benzo[k]fluoranthene | Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | Benzo[g,h,i]perylene | Total PAH |       |     |
| District   |                      | LOR                   |                 | 0.5         | 0.5           | 0.5            | 0.5        | 0.5          | 0.5        | 0.5          | 0.5    | 0.5      | 0.5                | 0.5                     | 0.5                  | 0.5            | 0.5                     | 0.5                   | 0.5                  | 0.5       | 0.5   | 0.5 |
| Difference weight wei |                      |                       |                 |             |               | mg/kg          |            | mg/kg        |            | mg/kg        |        | mg/kg    | mg/kg              | mg/kg                   | mg/kg                | mg/kg          | mg/kg                   | mg/kg                 | mg/kg                |           |       |     |
|   |                      |                       |                 |             |               | -              |            |              | 1          |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       | 3.0 |
|   |                      |                       |                 |             |               |                | -          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| MALAR         MURAR         MURAR <th< td=""><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>  |                      |                       |                 |             |               | _              |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| box         box <th>HSL - Direct Contact</th> <th>t Maintanence Workers</th> <th>(CRC CARE 2011)</th> <th>29,000</th> <th></th>   | HSL - Direct Contact | t Maintanence Workers | (CRC CARE 2011) | 29,000      |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
|   |                      |                       |                 | < 0.1       | < 0.1         | 0.2            | < 0.1      | 0.0          | 0.2        | 2.5          | 3.0    | 32       | 23                 | 3.6                     | 3.4                  | 3.6            | 23                      | 0.9                   | 27                   | 30        | EQ    | E 0 |
| Bit         Sole  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| BOOM         BOOM <th< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>  |                      |                       |                 |             |               | -              |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| b         c   |                      |                       |                 |             |               | -              |            |              |            | _            |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| BOOM         BOOM <th< td=""><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td><td></td><td></td><td>-</td><td>&lt; 0.1</td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>&lt; 0.1</td><td></td><td></td><td></td><td></td><td>-</td></th<>  |                      |                       |                 | -           | -             | -              |            |              | -          | < 0.1        |        |          |                    |                         | -                    | -              | < 0.1                   |                       |                      |           |       | -   |
| Sold         Sold <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>  |                      |                       |                 |             |               |                |            |              |            |              |        |          | -                  |                         |                      |                |                         |                       |                      |           |       |     |
| model         Sole         Sole <t< td=""><td>SS09</td><td>30-Oct-19</td><td>0.0</td><td></td><td>&lt; 0.1</td><td></td><td>&lt; 0.1</td><td></td><td>&lt; 0.1</td><td>0.2</td><td>0.2</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.2</td><td>0.1</td><td>&lt; 0.1</td><td>0.1</td><td>1.2</td><td>0.2</td><td></td></t<>   | SS09                 | 30-Oct-19             | 0.0             |             | < 0.1         |                | < 0.1      |              | < 0.1      | 0.2          | 0.2    | 0.1      | 0.1                | 0.1                     | 0.1                  | 0.2            | 0.1                     | < 0.1                 | 0.1                  | 1.2       | 0.2   |     |
| Sole         Sole <th< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></th<>  |                      |                       |                 | -           |               |                |            |              |            | -            |        |          |                    |                         |                      |                |                         |                       |                      |           |       | -   |
| Both         Both <th< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></th<>   |                      |                       |                 |             | -             |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           | -     |     |
| BADL         BADL <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         | -                    |                |                         |                       |                      |           |       |     |
| Book         Book         State         S   |                      |                       |                 |             |               |                |            |              |            |              |        | -        |                    | -                       | -                    | -              |                         |                       |                      |           |       |     |
| SDM         MDH         MD         M  | SS16                 | 30-Oct-19             | 0.0             | < 0.1       | < 0.1         | < 0.1          | < 0.1      | < 0.1        | < 0.1      | < 0.1        | < 0.1  | < 0.1    | < 0.1              | < 0.1                   | < 0.1                | < 0.1          | < 0.1                   | < 0.1                 | < 0.1                | < 0.1     | < 0.1 | 0.1 |
| mom         mom         des         des <td></td>   |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| BBD         BDD         QL         CAL         CAL <thcal< th=""> <thcal< th=""> <thcal< th=""></thcal<></thcal<></thcal<>  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| Sold         Sold <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>   |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| BD         XXXX         Col.         C   |                      |                       |                 |             |               |                |            |              |            | _            |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| Star         Matrix         Star         All         Curr         Curr <t< td=""><td>SS23</td><td>30-Oct-19</td><td>0.0</td><td>&lt; 0.1</td><td>&lt; 0.1</td><td>&lt; 0.1</td><td>&lt; 0.1</td><td>&lt; 0.1</td><td>&lt; 0.1</td><td>0.3</td><td>0.3</td><td>0.3</td><td>0.2</td><td></td><td></td><td>0.4</td><td>0.2</td><td></td><td></td><td>2.6</td><td></td><td>0.6</td></t<>  | SS23                 | 30-Oct-19             | 0.0             | < 0.1       | < 0.1         | < 0.1          | < 0.1      | < 0.1        | < 0.1      | 0.3          | 0.3    | 0.3      | 0.2                |                         |                      | 0.4            | 0.2                     |                       |                      | 2.6       |       | 0.6 |
| State         State <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>   |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| 9           |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       | -                    |           |       |     |
| bb         bb<  |                      |                       |                 | -           |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       | -   |
| 90         2000         03         030  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| bb.1         99/29         61.         63.<   | SS30                 | 30-Oct-19             | 0.0             | < 0.1       | < 0.1         | < 0.1          | < 0.1      | < 0.1        | < 0.1      | < 0.1        | < 0.1  | < 0.1    | < 0.1              | < 0.1                   | < 0.1                | < 0.1          | < 0.1                   | < 0.1                 | < 0.1                | < 0.1     | < 0.1 | 0.1 |
| No.         Object         Cont         Cost         Cost <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| Direction         State is an analysis         Constrained is an analysis         Constrained is analysis   |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| Good 3.         Bob Part         6.5        6.5         6.5 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>   |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| 1         0.00         0.   |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| COR         1         COR         - COS         - COS </td <td></td>  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| Bit Col.         Bit Col.         Cab.   | _                    |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| 0000         0000 <th< td=""><td>CG06_0.1</td><td>08-Apr-20</td><td>0.1</td><td>&lt; 0.5</td><td>&lt; 0.5</td><td>0.6</td></th<>  | CG06_0.1             | 08-Apr-20             | 0.1             | < 0.5       | < 0.5         | < 0.5          | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5 | 0.6 |
| CEG_0.5         0.6.p-20         0.5          0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| COB 0.1         Observal         0.1         <         C45          C45         <         C45         <         C45          C45          C45          C45          C45          C45          C45          C45          C45          C45         <         C45  | · · · · · = ·        | 08-Apr-20             | 0.5             | < 0.5       | < 0.5         | < 0.5          | < 0.5      | < 0.5        |            | < 0.5        | < 0.5  | < 0.5    |                    |                         |                      | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     |       |     |
| GG10.7         Object 20         Object 20         Object 20         Cols  | _                    |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| Bit 0.1         Objec 3         0.1         c 0.5         <   |                      |                       |                 |             |               |                |            |              |            | _            |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| PR0.01         ObsApe20         0.1         < 0.3         < 0.3         < 0.3         < 0.3         < 0.3         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         <   | CG11_0.1             | 08-Apr-20             | 0.1             | < 0.5       | < 0.5         | < 0.5          | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5 | 0.6 |
| PR02_01         08/4p/30         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  |                      |                       |                 |             |               |                |            |              |            | _            |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| Head 11         0 #Age-20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         <0.5  | FB02_0.1             | 08-Apr-20             | 0.1             | < 0.5       | < 0.5         | < 0.5          | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5 | 0.6 |
| PB05         0.1         0.6.3         c.0.3         c.0.3         c.0.5         c.   |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| MW02.01         02.4pr-20         0.1         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5         < 6.5   | FB05_0.1             | 08-Apr-20             | 0.1             | < 0.5       | < 0.5         | < 0.5          | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5 | 0.6 |
| MW03_01         024/pr20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| MY01_01         094/pr20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| MY02 01         09-Apr20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  |                      | 09-Apr-20             |                 | < 0.5       | < 0.5         | < 0.5          | < 0.5      | < 0.5        |            | < 0.5        | < 0.5  | < 0.5    |                    | < 0.5                   |                      | < 0.5          | < 0.5                   |                       |                      |           |       |     |
| MMM         01         04-by-20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0   |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| OGD_01         06/4pr20         0.1         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5  | MY04_0.1             | 09-Apr-20             | 0.1             | < 0.5       | < 0.5         | < 0.5          | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5 | 0.6 |
| 0602.01         07.4pr20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| OGG4_0.1         06-Apr-20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  | OG02_0.1             | 07-Apr-20             | 0.1             | < 0.5       | < 0.5         | < 0.5          | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5 | 0.6 |
| OGG5_0.1         O6-Apr-20         O.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  |                      |                       |                 |             |               | _              |            |              |            | _            |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| OG66_01         06-Åpr-20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5   |                      |                       |                 |             |               | _              |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| OGOB_0.1         07-Apr-20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  | OG06_0.1             | 06-Apr-20             | 0.1             |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| OGO9_0.1         07-Apr-20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  |                      |                       |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| OG11_0.5         02-Apr-20         0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  | OG09_0.1             | 07-Apr-20             | 0.1             | < 0.5       | < 0.5         | < 0.5          | < 0.5      | < 0.5        | < 0.5      | 0.7          | 0.8    | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | 1.5       | < 0.5 | 0.6 |
| OG12 0.1         06-Apr-20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  |                      |                       |                 |             |               | _              |            |              |            | _            |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| OG13_0.7         06-Apr-20         0.7         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  |                      |                       |                 |             |               |                |            |              |            | _            |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
| OG14_0.1         07-Apr-20         0.1         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5         < 0.5  | _                    | 06-Apr-20             |                 |             |               |                |            |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
|   | · · · · · = ·        |                       | -               |             |               |                |            |              |            | _            |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |
|   |                      |                       |                 |             |               |                |            |              |            | _            |        |          |                    |                         |                      |                |                         |                       |                      |           |       |     |



|                         |  |                        |                |                |                |                |                     |                       |                     |                     |                      | Poly                 | cyclic Aromatic Hydroca | arbons               |                     |                         |                       |                       |                       |                              |                                  |
|-------------------------|--|------------------------|----------------|----------------|----------------|----------------|---------------------|-----------------------|---------------------|---------------------|----------------------|----------------------|-------------------------|----------------------|---------------------|-------------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------------------------------|
|                         | Analyte  |                        |                |                |                |                |                     |                       |                     |                     |                      |                      |                         |                      |                     |                         |                       |                       |                       |                              |                                  |
|                         | , undry co   |                        | Naphthalene    | Acenaphthylene | Acenaphthene   | Fluorene       | Phenanthrene        | Anthracene            | Fluoranthene        | Pyrene              | Chrysene             | Benzo[a]anthracene   | Benzo[b]fluoranthene    | Benzo[k]fluoranthene | Benzo[a]pyrene      | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | Benzo[g,h,i]perylene  | Total PAH             | Benzo[a]pyrene<br>TEQ (Zero) | Benzo[a]pyrene<br>TEQ (Half LOR) |
|                         | LOR  |                        | 0.5            | 0.5            | 0.5            | 0.5            | 0.5                 | 0.5                   | 0.5                 | 0.5                 | 0.5                  | 0.5                  | 0.5                     | 0.5                  | 0.5                 | 0.5                     | 0.5                   | 0.5                   | 0.5                   | 0.5                          | 0.5                              |
|                         | Units  | 12)                    | mg/kg          | mg/kg          | mg/kg          | mg/kg          | mg/kg               | mg/kg                 | mg/kg               | mg/kg               | mg/kg                | mg/kg                | mg/kg                   | mg/kg                | mg/kg               | mg/kg                   | mg/kg                 | mg/kg                 | mg/kg                 | mg/kg                        | mg/kg                            |
|                         | <ul> <li>Recreational (NEPM 201<br/>al/Public Open Space, Coa</li> </ul> | <u>,</u>               |                |                |                |                |                     |                       |                     |                     |                      |                      |                         |                      | 33                  |                         |                       |                       | 300                   | 3.0                          | 3.0                              |
|                         | lential/Public Open Space  | . ,                    | 170            |                |                |                |                     |                       |                     |                     |                      |                      |                         |                      |                     |                         |                       |                       |                       |                              |                                  |
| HSL C - D               | irect Contact (CRC CARE  | 2011)                  | 1,900          |                |                |                |                     |                       |                     |                     |                      |                      |                         |                      |                     |                         |                       |                       |                       |                              |                                  |
|                         | t Maintanence Workers (C   | ,                      | 29,000         |                |                |                |                     |                       |                     |                     |                      |                      |                         |                      |                     |                         |                       |                       |                       |                              |                                  |
| Sample Name<br>OG15 0.1 | Sample Date<br>07-Apr-20   | Start Depth (m)<br>0.1 | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG15_0.7                | 07-Apr-20  | 0.7                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG16_0.1<br>OG16_0.4    | 07-Apr-20<br>07-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5                | < 0.5                   | < 0.5<br>< 0.5       | < 0.5<br>< 0.5      | < 0.5<br>< 0.5          | < 0.5                 | < 0.5<br>< 0.5        | < 0.5                 | < 0.5<br>< 0.5               | 0.6                              |
| OG16_0.4<br>OG17_0.1    | 07-Apr-20  | 0.4                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG18_0.1                | 07-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG19_0.1<br>OG20 0.1    | 07-Apr-20<br>07-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5                | < 0.5<br>< 0.5          | < 0.5<br>< 0.5       | < 0.5               | < 0.5                   | < 0.5                 | < 0.5<br>< 0.5        | < 0.5                 | < 0.5<br>< 0.5               | 0.6                              |
| OG20_0.4                | 07-Apr-20  | 0.4                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG21_0.1<br>OG22 0.1    | 06-Apr-20<br>07-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | <b>0.6</b><br>< 0.5 | < 0.5                 | <b>1.9</b><br>< 0.5 | <b>1.9</b><br>< 0.5 | <b>1.6</b><br>< 0.5  | <b>1.1</b><br>< 0.5  | <b>2.1</b><br>< 0.5     | <b>2.0</b><br>< 0.5  | <b>1.9</b><br>< 0.5 | <b>0.6</b><br>< 0.5     | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | <b>14</b><br>< 0.5    | <b>2.5</b><br>< 0.5          | 2.7<br>0.6                       |
| OG22_0.1<br>OG23_0.1    | 07-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG24_0.1                | 07-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG24_0.5<br>OG25 0.1    | 07-Apr-20<br>07-Apr-20   | 0.5                    | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5<br>< 0.5      | < 0.5                   | < 0.5                 | < 0.5<br>< 0.5        | < 0.5                 | < 0.5<br>< 0.5               | 0.6                              |
| OG25_1.0                | 07-Apr-20  | 1.0                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG26_0.1<br>OG26_0.4    | 07-Apr-20<br>07-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5          | 1.0 *<br>< 0.5 | < 0.5          | <b>7.1</b> *        | <b>1.4 *</b><br>< 0.5 | <b>25</b> * < 0.5   | <b>23</b> * < 0.5   | <b>15 *</b><br>< 0.5 | <u>11 *</u><br>< 0.5 | 12 *<br>< 0.5           | 11 *<br>< 0.5        | 13 *<br>< 0.5       | <b>9.2</b> *<br>< 0.5   | <b>2.2</b> *<br>< 0.5 | <b>8.4</b> *<br>< 0.5 | <b>139 *</b><br>< 0.5 | <b>20 *</b><br>< 0.5         | 20 *<br>0.6                      |
| OG20_0.4<br>OG27_0.1    | 07-Apr-20  | 0.4                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG28_0.1                | 07-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | 2.2                 | 2.0                 | 1.6                  | 1.0                  | 1.6                     | 1.7                  | 1.7                 | 1.2                     | < 0.5                 | 1.3                   | 14                    | 2.3                          | 2.5                              |
| OG29_0.1<br>OG30 0.1    | 06-Apr-20<br>06-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5<br>< 0.5       | < 0.5<br>< 0.5          | < 0.5<br>< 0.5       | < 0.5<br>< 0.5      | < 0.5<br>< 0.5          | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | < 0.5<br>< 0.5               | 0.6                              |
| OG31_0.1                | 06-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG32_0.1<br>OG33 0.1    | 06-Apr-20  | 0.1                    | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5          | < 0.5<br>< 0.5 | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5<br>< 0.5       | < 0.5<br>< 0.5          | < 0.5<br>< 0.5       | < 0.5<br>< 0.5      | < 0.5<br>< 0.5          | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | < 0.5                 | < 0.5<br>< 0.5               | 0.6                              |
| OG33_0.1<br>OG34_0.1    | 06-Apr-20<br>06-Apr-20   | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG35_0.1                | 06-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | 0.7                  | < 0.5                | 0.9                     | < 0.5                | 0.6                 | < 0.5                   | < 0.5                 | < 0.5                 | 2.2                   | 0.7                          | 1.0                              |
| OG36_0.1<br>OG36_0.6    | 06-Apr-20<br>06-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | <b>0.7</b><br>< 0.5 | <b>0.8</b><br>< 0.5 | <b>1.3</b><br>< 0.5  | <b>0.6</b><br>< 0.5  | 1.1<br>< 0.5            | 1.5<br>< 0.5         | <b>1.4</b><br>< 0.5 | <b>0.8</b><br>< 0.5     | < 0.5                 | <b>1.1</b><br>< 0.5   | <b>9.3</b><br>< 0.5   | <b>1.8</b><br>< 0.5          | 2.1<br>0.6                       |
| OG37_0.1                | 06-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG38_0.1<br>OG39 0.1    | 06-Apr-20<br>06-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5                | < 0.5                   | < 0.5<br>< 0.5       | < 0.5               | < 0.5                   | < 0.5                 | < 0.5<br>< 0.5        | < 0.5                 | < 0.5<br>< 0.5               | 0.6                              |
| OG39_0.1<br>OG40_0.1    | 06-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG41_0.1                | 06-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG42_0.1<br>OG42_0.4    | 07-Apr-20<br>07-Apr-20   | 0.1 0.4                | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | <b>1.4</b><br>< 0.5 | < 0.5                 | <b>4.9</b><br>< 0.5 | <b>4.5</b><br>< 0.5 | <b>3.0</b><br>< 0.5  | <b>1.7</b><br>< 0.5  | <b>2.7</b><br>< 0.5     | <b>2.3</b><br>< 0.5  | <b>2.5</b><br>< 0.5 | <b>1.8</b><br>< 0.5     | <b>0.8</b><br>< 0.5   | <b>1.7</b><br>< 0.5   | <b>27</b><br>< 0.5    | <b>4.2</b><br>< 0.5          | 4.2<br>0.6                       |
| OG43_0.1                | 07-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG44_0.1<br>OG45 0.1    | 07-Apr-20<br>07-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5                | < 0.5<br>< 0.5          | < 0.5<br>< 0.5       | < 0.5<br>< 0.5      | < 0.5                   | < 0.5                 | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | < 0.5<br>< 0.5               | 0.6                              |
| OG45_0.1<br>OG46_0.1    | 07-Apr-20<br>06-Apr-20   | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG47_0.1                | 06-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | 1.1                 | < 0.5                 | 2.4                 | 2.3                 | 1.8                  | 1.0                  | 1.2                     | 1.3                  | 1.3                 | 0.9                     | < 0.5                 | 0.8                   | 14                    | 1.8                          | 2.0                              |
| OG48_0.1<br>OG49 0.1    | 06-Apr-20<br>06-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5<br>< 0.5       | < 0.5                   | < 0.5<br>< 0.5       | < 0.5<br>< 0.5      | < 0.5<br>< 0.5          | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | < 0.5<br>< 0.5               | 0.6                              |
| OG50_0.1                | 09-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| OG51_0.1<br>OG52 0.1    | 09-Apr-20<br>09-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5<br>< 0.5       | < 0.5<br>< 0.5          | < 0.5<br>< 0.5       | < 0.5<br>< 0.5      | < 0.5<br>< 0.5          | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | < 0.5<br>< 0.5               | 0.6                              |
| OG52_0.1<br>OG53_0.1    | 09-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5<br><b>2.4</b> * | < 0.5                        | 0.6                              |
| PV01_0.1                | 08-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| PV03_0.1<br>PV05 0.1    | 08-Apr-20<br>08-Apr-20   | 0.1                    | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5                | < 0.5<br>< 0.5          | < 0.5<br>< 0.5       | < 0.5<br>< 0.5      | < 0.5                   | < 0.5                 | < 0.5<br>< 0.5        | < 0.5                 | < 0.5<br>< 0.5               | 0.6                              |
| PV07_0.7                | 08-Apr-20  | 0.7                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| PV10_0.1                | 08-Apr-20  | 0.1                    | < 0.5          | < 0.5          | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5               | < 0.5               | < 0.5                | < 0.5                | < 0.5                   | < 0.5                | < 0.5               | < 0.5                   | < 0.5                 | < 0.5                 | < 0.5                 | < 0.5                        | 0.6                              |
| SD01<br>SD02            | 09-Apr-20<br>09-Apr-20   | 0.0                    | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5          | < 0.5          | < 0.5               | < 0.5                 | < 0.5<br>< 0.5      | < 0.5<br>< 0.5      | < 0.5                | < 0.5<br>< 0.5       | < 0.5<br>< 0.5          | < 0.5<br>< 0.5       | < 0.5<br>< 0.5      | < 0.5<br>< 0.5          | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | < 0.5<br>< 0.5        | < 0.5<br>< 0.5               | 0.6                              |
| 5002                    | 05 API 20  | 0.0                    | . 0.5          |                | . 0.5          |                | . 0.5               | . 0.0                 | . 0.5               | . 0.0               | . 0.5                |                      |                         | . 0.5                |                     | - 0.5                   |                       | . 0.5                 | - 0.5                 | . 0.0                        |                                  |

Notes: < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting mg/kg - Milligrams per kilogram Bold indicates a detection above the laboratory limit of reporting "\*" denotes duplicate/triplicate sample result adopted for analytical use due to RPD >50% Highlighting indicates an exceedance of the corresponding criteria (highlighting corresponds to the guideline with the highest criteria value where analytical result exceeds more than one guideline) RPD - Relative Percentage Difference



|                        |                         |                      |             |                |              |          |              |            |              |        |          | Poly               | cyclic Aromatic Hydroca | rbons                |                |                         |                       |                      |           |                              |                                  |
|------------------------|-------------------------|----------------------|-------------|----------------|--------------|----------|--------------|------------|--------------|--------|----------|--------------------|-------------------------|----------------------|----------------|-------------------------|-----------------------|----------------------|-----------|------------------------------|----------------------------------|
|                        | Analyte                 |                      | Naphthalene | Acenaphthylene | Acenaphthene | Fluorene | Phenanthrene | Anthracene | Fluoranthene | Pyrene | Chrysene | Benzo[a]anthracene | Benzo[b]fluoranthene    | Benzo[k]fluoranthene | Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | Benzo[g,h,i]perylene | Total PAH | Benzo[a]pyrene<br>TEQ (Zero) | Benzo[a]pyrene<br>TEQ (Half LOR) |
|                        | LOR                     |                      | 0.5         | 0.5            | 0.5          | 0.5      | 0.5          | 0.5        | 0.5          | 0.5    | 0.5      | 0.5                | 0.5                     | 0.5                  | 0.5            | 0.5                     | 0.5                   | 0.5                  | 0.5       | 0.5                          | 0.5                              |
|                        | Units                   |                      | mg/kg       | mg/kg          | mg/kg        | mg/kg    | mg/kg        | mg/kg      | mg/kg        | mg/kg  | mg/kg    | mg/kg              | mg/kg                   | mg/kg                | mg/kg          | mg/kg                   | mg/kg                 | mg/kg                | mg/kg     | mg/kg                        | mg/kg                            |
| HIL A                  | - Residential (NEPM 20  | 013)                 |             |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      | 300       | 3.0                          | 3.0                              |
| ESL - Urban Residentia | al/Public Open Space, C | Coarse (CRC Care 39) |             |                |              |          |              |            |              |        |          |                    |                         |                      | 33             |                         |                       |                      |           |                              |                                  |
| EIL - Urban Resid      | ential/Public Open Spa  | ce (NEPM 2013)       | 170         |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |                              |                                  |
| HSL A - D              | irect Contact (CRC CAF  | RE 2011)             | 1,400       |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |                              |                                  |
| HSL - Direct Contact   | t Maintanence Workers   | (CRC CARE 2011)      | 29,000      |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |                              |                                  |
| Sample Name            | Sample Date             | Start Depth (m)      |             |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |                              | <u> </u>                         |
| PG01_0.1               | 09-Apr-20               | 0.1                  | < 0.5       | < 0.5          | < 0.5        | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5                        | 0.6                              |
| PG02_0.1               | 09-Apr-20               | 0.1                  | < 0.5       | < 0.5          | < 0.5        | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5                        | 0.6                              |
| PG03_0.1               | 09-Apr-20               | 0.1                  | < 0.5       | < 0.5          | < 0.5        | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5                        | 0.6                              |
| PG04_0.1               | 09-Apr-20               | 0.1                  | < 0.5       | < 0.5          | < 0.5        | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5                        | 0.6                              |
| PG05_0.1               | 09-Apr-20               | 0.1                  | < 0.5       | < 0.5          | < 0.5        | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                   | < 0.5                | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5                        | 0.6                              |

Notes: < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting mg/kg - Milligrams per kilogram Bold indicates a detection above the laboratory limit of reporting "\*" denotes duplicate/triplicate sample result adopted for analytical use due to RPD >50% Highlighting indicates an exceedance of the corresponding criteria (highlighting corresponds to the guideline with the highest criteria value where analytical result exceeds more than one guideline) RPD - Relative Percentage Difference



## Table 4B Soil Analytical Data - PAHs Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|                        |                  |                 |             |                |                |          |              |            |              |        |          | Polyc              | yclic Aromatic Hydrocarl | bons                   |                |                         |                       |                        |           |                              |                                    |
|------------------------|------------------|-----------------|-------------|----------------|----------------|----------|--------------|------------|--------------|--------|----------|--------------------|--------------------------|------------------------|----------------|-------------------------|-----------------------|------------------------|-----------|------------------------------|------------------------------------|
|                        | Analyte          |                 | Naphthalene | Acenaphthylene | e Acenaphthene | Fluorene | Phenanthrene | Anthracene | Fluoranthene | Pyrene | Chrysene | Benzo[a]anthracene | Benzo[b]fluoranthene     | e Benzo[k]fluoranthene | Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | e Benzo[g,h,i]perylene | Total PAH | Benzo[a]pyrene<br>TEQ (Zero) | e Benzo[a]pyrene<br>TEQ (Half LOR) |
|                        | LOR              |                 | 0.5         | 0.5            | 0.5            | 0.5      | 0.5          | 0.5        | 0.5          | 0.5    | 0.5      | 0.5                | 0.5                      | 0.5                    | 0.5            | 0.5                     | 0.5                   | 0.5                    | 0.5       | 0.5                          | 0.5                                |
|                        | Units            |                 | mg/kg       | mg/kg          | mg/kg          | mg/kg    | mg/kg        | mg/kg      | mg/kg        | mg/kg  | mg/kg    | mg/kg              | mg/kg                    | mg/kg                  | mg/kg          | mg/kg                   | mg/kg                 | mg/kg                  | mg/kg     | mg/kg                        | mg/kg                              |
| HIL A - Re             | esidential (NEPM | 1 2013)         |             |                |                |          |              |            |              |        |          |                    |                          |                        |                |                         |                       |                        | 300       | 3.0                          | 3.0                                |
| HSL A - Direct         | t Contact (CRC ( | CARE 2011)      | 1,400       |                |                |          |              |            |              |        |          |                    |                          |                        |                |                         |                       |                        |           |                              |                                    |
|                        | , I              | 0 m - <1 m      | 5.0         |                |                |          |              |            |              |        |          |                    |                          |                        |                |                         |                       |                        |           |                              |                                    |
| HSL (Vapour Intrusion) |                  | 1 m - <2 m      | NL          |                |                |          |              |            |              |        |          |                    |                          |                        |                |                         |                       |                        |           |                              |                                    |
| (NEPM 2013             | ·                | 2 m - <4 m      | NL          |                |                |          |              |            |              |        |          |                    |                          |                        |                |                         |                       |                        |           |                              |                                    |
| ,                      | -,               | 4 m +           | NL          |                |                |          |              |            |              |        |          |                    |                          |                        |                |                         |                       |                        |           |                              |                                    |
| Sample Name Sa         | Sample Date      | Start Depth (m) | 112         |                |                |          |              |            |              |        |          |                    |                          |                        |                |                         | 1                     |                        |           |                              |                                    |
|                        | 05-Jan-21        | 0.15            | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
|                        | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
|                        | 05-Jan-21        | 0.15            | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
| SB04_0.1               | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
| SB05_0.1               | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
| SB06_0.1               | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
|                        | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
|                        | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
|                        | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
|                        | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
|                        | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
|                        | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
|                        | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |
| SB14_0.1               | 05-Jan-21        | 0.1             | < 0.5       | < 0.5          | < 0.5          | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                    | < 0.5                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                  | < 0.5     | < 0.5                        | 0.6                                |

Notes: < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting NL - Not limiting mg/kg - Milligrams per kilogram Bold indicates a detection above the laboratory limit of reporting



## Table 4C Soil Analytical Data - PAHs Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|                       |                   |                 |             |                |              |          |              |            |              |        |          | Polycy             | clic Aromatic Hydrocarb | oons                 |                |                         |                       |                      |           |       |                                  |
|-----------------------|-------------------|-----------------|-------------|----------------|--------------|----------|--------------|------------|--------------|--------|----------|--------------------|-------------------------|----------------------|----------------|-------------------------|-----------------------|----------------------|-----------|-------|----------------------------------|
|                       | Analyte           |                 | Naphthalene | Acenaphthylene | Acenaphthene | Fluorene | Phenanthrene | Anthracene | Fluoranthene | Pyrene | Chrysene | Benzo[a]anthracene | Benzo[b]fluoranthene    | Benzo[k]fluoranthene | Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | Benzo[g,h,i]perylene | Total PAH |       | Benzo[a]pyrene<br>TEQ (Half LOR) |
|                       | LOR               |                 | 0.5         | 0.5            | 0.5          | 0.5      | 0.5          | 0.5        | 0.5          | 0.5    | 0.5      | 0.5                | 0.5                     | 0.5                  | 0.5            | 0.5                     | 0.5                   | 0.5                  | 0.5       | 0.5   | 0.5                              |
|                       | Units             |                 | mg/kg       | mg/kg          | mg/kg        | mg/kg    | mg/kg        | mg/kg      | mg/kg        | mg/kg  | mg/kg    | mg/kg              | mg/kg                   | mg/kg                | mg/kg          | mg/kg                   | mg/kg                 | mg/kg                | mg/kg     | mg/kg | mg/kg                            |
| HIL A - R             | Residential (NEPM | 1 2013)         |             |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      | 300       | 3.0   | 3.0                              |
| HSL A - Direct        | ct Contact (CRC C | CARE 2011)      | 1,400       |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |                                  |
|                       |                   | 0 m - <1 m      | 5.0         |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |                                  |
| HSL (Vapour Intrusion | n) A & B - CLAY   | 1 m - <2 m      | NL          |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |                                  |
| (NEPM 201             | 13)               | 2 m - <4 m      | NL          |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |                                  |
|                       |                   | 4 m +           | NL          |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |                                  |
| Sample Name S         | Sample Date       | Start Depth (m) |             |                |              |          |              |            |              |        |          |                    |                         |                      |                |                         |                       |                      |           |       |                                  |
| AV01                  | 03-Mar-21         | 0.0             | < 2.3       | < 2.3          | < 2.3        | < 2.3    | < 2.3        | < 2.3      | < 2.3        | < 2.3  | < 2.3    | < 2.3              | < 2.3                   | < 2.3                | < 2.3          | < 2.3                   | < 2.3                 | < 2.3                | < 1.4     | < 0.7 | 2.8                              |
| AV02                  | 03-Mar-21         | 0.0             | < 2.3       | < 2.3          | < 2.3        | < 2.3    | < 2.3        | < 2.3      | < 2.3        | < 2.3  | < 2.3    | < 2.3              | < 2.3                   | < 2.3                | < 2.3          | < 2.3                   | < 2.3                 | < 2.3                | < 1.4     | < 0.7 | 2.8                              |

Notes: < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting NL - Not limiting mg/kg - Milligrams per kilogram Bold indicates a detection above the laboratory limit of reporting





|  |             |                  |              |            |              |            |              |        |          | Polycy             | lic Aromatic Hydrocart | oons                |                  |                         |                         |                      |           |                              |                                  |                |                       |                  |                     |                           | Poly                     | cyclic Aromatic  | c Hydrocarbon   | S                  |                |                        |                   |  |
|--|-------------|------------------|--------------|------------|--------------|------------|--------------|--------|----------|--------------------|------------------------|---------------------|------------------|-------------------------|-------------------------|----------------------|-----------|------------------------------|----------------------------------|----------------|-----------------------|------------------|---------------------|---------------------------|--------------------------|------------------|-----------------|--------------------|----------------|------------------------|-------------------|--|
| Analyte  | Naphthalene | e Acenaphthylene | Acenaphthene | : Fluorene | Phenanthrene | Anthracene | Fluoranthene | Pyrene | Chrysene | Benzo[a]anthracene | Benzo[b]fluoranthene   | Benzo[k]fluoranthen | e Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | e Dibenz[a,h]anthracene | Benzo[g,h,i]perylene | Total PAH | Benzo[a]pyrene<br>TEQ (Zero) | Benzo[a]pyrene<br>TEQ (Half LOR) | Naphtha<br>ene | al Acenapht<br>hylene | Acenapht<br>hene | ne Phenanth<br>rene | Anthrace Fluora<br>ne ene | <sup>nth</sup> Pyrene Ch | rysene o[a]ant   | thra)[b]fluorar | ɔ[k]fluorannzo[a]p | pyre[1,2,3-c,d | d]z[a,h]anthıo[g,h,i]p | er Total p<br>PAH | enzo[a] benzo[a]<br>pyrene TEQ<br>TEQ (Half<br>(Zero) LOD) |
| LOR  | 0.5         | 0.5              | 0.5          | 0.5        | 0.5          | 0.5        | 0.5          | 0.5    | 0.5      | 0.5                | 0.5                    | 0.5                 | 0.5              | 0.5                     | 0.5                     | 0.5                  | 0.5       | 0.5                          | 0.5                              | 0.5            | 0.5                   | 0.5 0.5          | 0.5                 | 0.5 0.5                   | 0.5                      | 0.5 0.5          | 0.5             | 0.5 0.5            | 0.5            | 0.5 0.5                | 0.5               | 0.5 0.5  |
| Units  | mg/kg       | ma/ka            | ma/ka        | ma/ka      | ma/ka        | ma/ka      | mg/kg        | ma/ka  | ma/ka    | mg/kg              | mg/kg                  | mg/kg               | mg/kg            | mg/kg                   | mg/kg                   | mg/kg                | mg/kg     | mg/kg                        | mg/kg                            | ma/ka          | ma/ka                 | ma/ka ma/k       | a ma/ka             | ma/ka ma/k                | a ma/ka r                | a/ka ma/k        | a ma/ka         | ma/ka ma/k         | ka ma/ka       | ma/ka ma/ka            | ma/ka n           | na/ka ma/ka  |
| HIL C - Recreational (NEPM 2013)   |             |                  |              |            |              |            |              |        |          |                    |                        |                     |                  |                         |                         |                      | 300       | 3.0                          | 3.0                              |                |                       |                  | -                   |                           |                          |                  |                 |                    |                |                        | 300               | 3.0 3.0  |
| EIL - Urban Residential/Public Open Space (NEPM 2013)  | 170         |                  |              |            |              |            |              |        |          |                    |                        |                     |                  |                         |                         |                      |           |                              |                                  | 170            |                       |                  |                     |                           |                          |                  |                 |                    |                |                        |                   |  |
| Sample Name Sample Date Start Depth (m)  |             |                  |              |            |              |            |              |        |          |                    |                        |                     |                  |                         |                         |                      |           |                              |                                  |                |                       |                  | _                   |                           |                          |                  | -               | II                 |                |                        | - I I -           |  |
| S1 16-Dec-21 0.0   | 2.3         | < 0.5            | 14           | 5.0        | 57           | 8.7        | 120          | 120    | 79       | 70                 | 80                     | 71                  | 89               | 54                      | 18                      | 100                  | 888       | 140                          | 140                              | 2.3            |                       | 14 5.0           | 57                  | 8.7 120                   | 120                      | 79 70            | 80              | 71 89              | 54             | 18 100                 | 888               | 140 140  |
| SS15 1 0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | 1.0          | < 0.5      | 3.1          | 2.9    | 1.3      | 0.8                | 3.9                    | 1.6                 | 2.0              | 1.1                     | < 0.5                   | 0.8                  | 19        | 2.8                          | 3.0                              | < 0.5          | < 0.5                 | < 0.5 < 0.       | 5 1.0               | < 0.5 3.1                 | 2.9                      | 1.3 0.8          | 3.9             | 1.6 2.0            | 0 1.1          | < 0.5 0.8              | 19                | 2.8 3.0  |
| SS15_2_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | 3.4          | 0.8        | 9.4          | 8.6    | 4.4      | 2.8                | 11                     | 4.6                 | 6.1<br>2.0       | 3.5                     | 0.9                     | 2.3                  | 58        | 9.3<br>2.7                   | 9.3<br>2.9                       | h < 0.5        | < 0.5                 | < 0.5 < 0.       | 5 2.1               | 0.6 6.2                   | 5.8                      | 3.0 1.9          | 8.1             | 3.8 4.8            | 3 2.2          | < 0.5 1.5              | 40                | 64 67  |
| SS15_3_0.0-0.1 16-Dec-21 0.0 Lab   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | 0.9          | < 0.5      | 3.0          | 2.8    | 1.1      | 0.7                | 3.1                    | 1.6                 | 2.0              | 1.1                     | < 0.5                   | 0.7                  | 17        | 2.7                          | 2.9                              | ort < 0.5      | < 0.5                 | < 0.5 < 0.       | 5 0.9               | < 0.5 3.0                 | 2.8                      | 1.1 0.7          | 3.1             | 1.6 2.0            | 0 1.1          | < 0.5 0.7              |                   | 2.7 2.9  |
| SS15_4_0.0-0.1 16-Dec-21 0.0 report  | t < 0.5     | < 0.5            | 1.3          | 0.5        | 8.3          | 2.4        | 26           | 23     | 10       | 6.2                | 29                     | 13                  | 17               | 8.4                     | 2.1                     | 5.2                  | 152       | 25                           | 25 85                            | < 0.5          | < 0.5                 | 1.3 0.5          | 8.3                 | 2.4 26                    | 23                       | 10 6.2           | 29              | 13 17              | 8.4            |                        | 152               | 25 25  |
| SSI5         2         0.0-0.1         16-Dec-21         0.0         Lab           SSI5         3         0.0-0.1         16-Dec-21         0.0         report           SSI5         4         0.0-0.1         16-Dec-21         0.0         report           SSI5         5         0.0-0.1         16-Dec-21         0.0         854503   | 3 < 0.5     | < 0.5            | < 0.5        | < 0.5      | 1.3          | < 0.5      | 5.0          | 4.6    | 2.1      | 1.3                | 7.1                    | 2.5                 | 3.6              | 2.1                     | 0.7                     | 1.4                  | 32        | 5.6                          | 5.6                              | < 0.5          | < 0.5                 | < 0.5 < 0.       | 5 1.3               | < 0.5 5.0                 | 4.6                      | 2.1 1.3          | 7.1             | 2.5 3.6            | 5 2.1          | 0.7 1.4                | 32                | 5.6 5.6  |
| SS15         6         0.0         1         6-Dec-21         0.0           SS27         1         0.0         1         6-Dec-21         0.0           SS27         2         0.0         1         16-Dec-21         0.0           SS27         2         0.0         0.1         16-Dec-21         0.0           SS27         2         0.0         1         16-Dec-21         0.0 | < 0.5       | < 0.5            | < 0.5        | < 0.5      | 0.9          | < 0.5      | 3.2          | 2.9    | 1.2      | 0.8                | 4.1                    | 1.8                 | 2.2              | 1.2                     | < 0.5                   | 0.9                  | 19        | 3.0                          | 3.3<br>0.6                       | < 0.5          |                       | < 0.5 < 0.       | 5 0.9               | < 0.5 3.2                 | 2.9                      | 1.2 0.8          | 4.1             | 1.8 2.2            | 2 1.2          | < 0.5 0.9              | 19                | 3.0 3.3  |
| SS27_1_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                  | < 0.5               | < 0.5            | < 0.5                   | < 0.5                   | < 0.5                | < 0.5     | < 0.5                        |                                  | < 0.5          | < 0.5                 | < 0.5 < 0.       | 5 < 0.5             | < 0.5 < 0.                | 5 < 0.5                  | < 0.5 < 0.5      | 5 < 0.5         | < 0.5 < 0.5        | .5 < 0.5       | < 0.5 < 0.5            |                   | < 0.5 0.6  |
| SS27_2_0.0-0.1         16-Dec-21         0.0           SS27_3_0.0-0.1         16-Dec-21         0.0           SS27_4_0.0-0.1         16-Dec-21         0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | < 0.5        | < 0.5      | 1.5          | 1.5    | 0.7      | < 0.5              | 2.3                    | 0.9                 | 1.2<br>< 0.5     | 1.0                     | < 0.5                   | < 0.5                | 9.1       | 1.6                          | 1.9<br>0.6                       | < 0.5          | < 0.5                 | < 0.5 < 0.       | 5 < 0.5             | < 0.5 1.5                 | 1.5                      | 0.7 < 0.5        | 5 2.3           | 0.9 1.2            | 2 1.0          | < 0.5 < 0.5            | 9.1               | 1.6 1.9<br>< 0.5 0.6                                       |
| SS27_3_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                  | < 0.5               | < 0.5            | < 0.5                   | < 0.5                   | < 0.5                | < 0.5     | < 0.5                        |                                  | < 0.5          | < 0.5                 | < 0.5 < 0.       | 5 < 0.5             | < 0.5 < 0.                | 5 < 0.5                  | < 0.5 < 0.5      | 5 < 0.5         | < 0.5 < 0.5        | .5 < 0.5       | < 0.5 < 0.5            |                   |  |
| SS27_4_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                  | < 0.5               | < 0.5            | < 0.5                   | < 0.5                   | < 0.5                | < 0.5     | < 0.5                        | 0.6                              | < 0.5          |                       | < 0.5 < 0.       | 5 < 0.5             | < 0.5 < 0.                | 5 < 0.5                  | < 0.5 < 0.5      | 5 < 0.5         | < 0.5 < 0.5        | .5 < 0.5       | < 0.5 < 0.5            |                   | < 0.5 0.6  |
| SS27_5_0.0-0.1 16-Dec-21 0.0<br>SS27_6_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | 0.7          | < 0.5      | 5.2          | 1.2        | 14           | 13     | 6.4      | 4.2                | 18                     | 6.5                 | 10               | 6.4                     | 1.8                     | 4.6                  | 92        | 15                           | 15                               | < 0.5          |                       | <b>0.7</b> < 0.  | 5 5.2               | 1.2 14                    | 13                       | 6.4 4.2          | 18              | 6.5 10             | 6.4            | 1.8 4.6                | 92                | 15 15  |
| SS27_6_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                  | < 0.5               | < 0.5            | < 0.5                   | < 0.5                   | < 0.5                | < 0.5     | < 0.5                        | 0.6                              | < 0.5          |                       | < 0.5 < 0.       | 5 < 0.5             | < 0.5 < 0.                | 5 < 0.5                  | < 0.5 < 0.5      | 5 < 0.5         | < 0.5 < 0.5        | .5 < 0.5       | < 0.5 < 0.5            |                   | < 0.5 0.6  |
| SS29_1_0.0-0.1 16-Dec-21 0.0   | 0.8         | < 0.5            | 4.1          | 1.7        | 21           | 6.8        | 43           | 40     | 27       | 19                 | 61                     | 14                  | 31               | 26                      | 8.3                     | 20                   | 324       | 52                           | 52                               | < 0.5          |                       | 2.1 0.7          | 9.7                 | 3.2 30                    | 27                       | 15 9.9           | 35              | 12 19              | 12             | < 0.5 8.3              |                   | 26 26  |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | < 0.5        | < 0.5      | 1.2          | 1.1    | < 0.5    | < 0.5              | 1.9                    | 0.7                 | 0.9              | 0.8                     | < 0.5                   | < 0.5                | 6.6       | 1.2                          | 1.5                              | < 0.5          |                       | < 0.5 < 0.       | 5 < 0.5             | < 0.5 1.2                 | 1.1                      | < 0.5 < 0.5      |                 | 0.7 0.9            | 0.8            | < 0.5 < 0.5            | 6.6               | 1.2 1.5  |
| SS29_3_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | 1.7          | < 0.5      | 5.2          | 5.1    | 2.3      | 1.5                | 7.7                    | 2.9                 | 4.0<br>< 0.5     | 2.5                     | 0.8                     | 1.8                  | 36        | 6.3                          | 6.3<br>0.6                       | < 0.5          | < 0.5                 | < 0.5 < 0.       | 5 <b>1.7</b>        | < 0.5 5.2                 | 5.1                      | 2.3 1.5          | 7.7             | 2.9 4.0            | ) 2.5          |                        | 36                | 6.3 6.3  |
| SS29_4_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                  | < 0.5               |                  | < 0.5                   | < 0.5                   | < 0.5                | < 0.5     | < 0.5                        | 0.6                              | < 0.5          |                       | < 0.5 < 0.       | 5 < 0.5             | < 0.5 < 0.                | 5 < 0.5                  | < 0.5 < 0.5      | 5 < 0.5         | < 0.5 < 0.5        | .5 < 0.5       | < 0.5 < 0.5            |                   | < 0.5 0.6  |
| SS29_5_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | < 0.5        | < 0.5      | 1.4          | 1.3    | 0.6      | < 0.5              | 1.9                    | 0.9                 | 1.1              | 0.6                     | < 0.5                   | < 0.5                | 7.8       | 1.4                          | 1.7                              | < 0.5          |                       | < 0.5 < 0.       |                     | < 0.5 1.4                 |                          | <b>0.6</b> < 0.5 | 5 1.9           | 0.9 1.1            |                |                        |                   | 1.4 1.7  |
| SS29_6_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | 1.5          | < 0.5      | 4.5          | 4.2    | 1.9      | 1.2                | 6.2                    | 2.7                 | 3.3              | 2.1                     | 0.6                     | 1.4                  | 30        | 5.2                          | 5.2                              | < 0.5          |                       | < 0.5 < 0.       |                     | < 0.5 4.5                 |                          | 1.9 1.2          |                 | 2.7 3.3            |                |                        | 30                | 5.2 5.2  |
| SW03_0.0-0.1 16-Dec-21 0.0   | < 0.5       | < 0.5            | < 0.5        | < 0.5      | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                  | < 0.5               | < 0.5            | < 0.5                   | < 0.5                   | < 0.5                | < 0.5     | < 0.5                        | 0.6                              | < 0.5          | < 0.5                 | < 0.5 < 0.       | 5 < 0.5             | < 0.5 < 0.                | 5 < 0.5                  | < 0.5 < 0.5      | 5 < 0.5         | < 0.5 < 0.5        | .5 < 0.5       | < 0.5 < 0.5            | < 0.5             | < 0.5 0.6  |

Notes: < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting ma/kq - Milligrams per kiloaram Bold indicates a detection above the laboratory limit of reporting Bold indicates an exceedance of the corresponding criteria (highlighting corresponds to the guideline with the highest criteria value where analytical result exceeds more than one guideline) Highlighting indicates an exceedance of the corresponding criteria (highlighting corresponds to the guideline with the highest criteria value where analytical result exceeds more than one guideline)

Criteria: National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013).



|             |                    |                 |              |              |              | Polychlorinat | ed Biphenyls |              |              |            |
|-------------|--------------------|-----------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|------------|
|             | Analyte            |                 | Aroclor-1260 | Aroclor-1254 | Aroclor-1221 | Aroclor-1232  | Aroclor-1248 | Aroclor-1016 | Aroclor-1242 | Total PCBs |
|             | LOR                |                 | 0.1          | 0.1          | 0.1          | 0.1           | 0.1          | 0.1          | 0.1          | 0.1        |
|             | Units              |                 | mg/kg        | mg/kg        | mg/kg        | mg/kg         | mg/kg        | mg/kg        | mg/kg        | mg/kg      |
| HIL C       | - Recreational (NE | PM 2013)        |              |              |              |               |              |              |              | 1.0        |
| Sample Name | Sample Date        | Start Depth (m) |              |              |              |               |              |              |              |            |
| SS03        | 30-Oct-19          | 0.0             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| SS09        | 30-Oct-19          | 0.0             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| SS11        | 30-Oct-19          | 0.0             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| SS15        | 30-Oct-19          | 0.0             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| SS22        | 30-Oct-19          | 0.0             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| SS28        | 30-Oct-19          | 0.0             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| BS10_0.1    | 08-Apr-20          | 0.1             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| FB03_0.1    | 08-Apr-20          | 0.1             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| FB05_0.1    | 08-Apr-20          | 0.1             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| MY01_0.1    | 09-Apr-20          | 0.1             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| PG02_0.1    | 09-Apr-20          | 0.1             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |
| PV07_0.7    | 08-Apr-20          | 0.7             | < 0.1        | < 0.1        | < 0.1        | < 0.1         | < 0.1        | < 0.1        | < 0.1        | < 0.1      |

### Notes:

< - Less than laboratory limit of reporting</li>
 LOR - Laboratory limit of reporting
 mg/kg - Milligrams per kilogram
 PCB - Polychlorinated Biphenyl

Criteria:

National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013).





|                   |                     |                   |         |                                       |   |          |          |          |           |          |           |           |        |                    |               |                 |           |                  |                 |                     | Organochlorine F   |
|-------------------|---------------------|-------------------|---------|---------------------------------------|---|----------|----------|----------|-----------|----------|-----------|-----------|--------|--------------------|---------------|-----------------|-----------|------------------|-----------------|---------------------|--------------------|
|                   | Analyte             |                   | 2,4,5-T | 2,4-<br>Dichlorophenoxyacetic<br>Acid | 2-Methyl-4-<br>Chlorophenoxy<br>Butanoic Acid | 4,4'-DDE | 4,4'-DDD | 4,4'-DDT | alpha-BHC | beta-BHC | gamma-BHC | delta-BHC | Aldrin | Heptachlor epoxide | cis-Chlordane | trans-Chlordane | Chlordane | alpha-Endosulfan | beta-Endosulfan | Endosulfan<br>(sum) | Endosulfan sulfate |
|                   | LOR                 |                   | 0.5     | 0.5                                   | 0.5   | 0.05     | 0.05     | 0.05     | 0.05      | 0.05     | 0.05      | 0.05      | 0.05   | 0.05               | 0.1           | 0.1             | 0.1       | 0.05             | 0.05            | 0.05                | 0.05               |
|                   | Units               |                   | mg/kg   | mg/kg                                 | mg/kg   | mg/kg    | mg/kg    | mg/kg    | mg/kg     | mg/kg    | mg/kg     | mg/kg     | mg/kg  | mg/kg              | mg/kg         | mg/kg           | mg/kg     | mg/kg            | mg/kg           | mg/kg               | mg/kg              |
| HIL C             | - Recreational (NE  | PM 2013)          | 800     | 1,300                                 | 800   |          |          |          |           |          |           |           |        |                    | 70            | 70              | 70        |                  |                 | 340                 |                    |
| EIL - Urban Resid | dential/Public Open | Space (NEPM 2013) |         |                                       |   |          |          | 180      |           |          |           |           |        |                    |               |                 |           |                  |                 |                     |                    |
| Sample Name       | Sample Date         | Start Depth (m)   |         |                                       |   |          |          | •        | •         |          |           |           |        | •                  |               | •               | •         | •                |                 |                     | •                  |
| SS03              | 30-Oct-19           | 0.0               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | < 0.05        | < 0.05          | < 0.05    | < 0.05           | < 0.05          | < 0.05              | < 0.05             |
| SS09              | 30-Oct-19           | 0.0               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | < 0.05        | < 0.05          | < 0.05    | < 0.05           | < 0.05          | < 0.05              | < 0.05             |
| SS11              | 30-Oct-19           | 0.0               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | < 0.05        | < 0.05          | < 0.05    | < 0.05           | < 0.05          | < 0.05              | < 0.05             |
| SS15              | 30-Oct-19           | 0.0               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | < 0.05        | < 0.05          | < 0.05    | < 0.05           | < 0.05          | < 0.05              | < 0.05             |
| SS22              | 30-Oct-19           | 0.0               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | < 0.05        | < 0.05          | < 0.05    | < 0.05           | < 0.05          | < 0.05              | < 0.05             |
| SS28              | 30-Oct-19           | 0.0               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | < 0.05        | < 0.05          | < 0.05    | < 0.05           | < 0.05          | < 0.05              | < 0.05             |
| BS10_0.1          | 08-Apr-20           | 0.1               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | -             | -               | < 0.1     | < 0.05           | < 0.05          | -                   | < 0.05             |
| CG02_0.1          | 08-Apr-20           | 0.1               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | -             | -               | < 0.1     | < 0.05           | < 0.05          | -                   | < 0.05             |
| CG07_0.1          | 08-Apr-20           | 0.1               | •       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | -             | -               | < 0.1     | < 0.05           | < 0.05          | -                   | < 0.05             |
| CG09_0.1          | 08-Apr-20           | 0.1               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | -             | -               | < 0.1     | < 0.05           | < 0.05          | -                   | < 0.05             |
| CG12_0.1          | 08-Apr-20           | 0.1               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | -             | -               | < 0.1     | < 0.05           | < 0.05          | -                   | < 0.05             |
| FB03_0.1          | 08-Apr-20           | 0.1               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | -             | -               | < 0.1     | < 0.05           | < 0.05          | -                   | < 0.05             |
| FB05_0.1          | 08-Apr-20           | 0.1               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | -             | -               | < 0.1     | < 0.05           | < 0.05          | -                   | < 0.05             |
| MY01_0.1          | 09-Apr-20           | 0.1               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             | -             | -               | < 0.1     | < 0.05           | < 0.05          | -                   | < 0.05             |
| PG02_0.1          | 09-Apr-20           | 0.1               | < 0.5   | < 0.5                                 | < 0.5   | < 0.05   | < 0.05   | < 0.05   | -         | -        | -         | -         | < 0.05 | -                  | -             | -               | < 0.1     | < 0.05           | < 0.05          | -                   | < 0.05             |
| PV07_0.7          | 08-Apr-20           | 0.7               | -       | -                                     | -   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05    | < 0.05    | < 0.05 | < 0.05             |               | -               | < 0.1     | < 0.05           | < 0.05          | -                   | < 0.05             |

Notes: - Not analysed < Less than laboratory limit of reporting LOR - Laboratory limit of reporting mg/kg - Milligrams per kilogram DDT - Dichlorodiphenyltrichloroethane 2,4,5-T - 2,4,5-Trichlorophenoxyacetic acid MCPA - 2-methyl-4-chlorophenoxyacetic acid DDE - Dichlorodiphenyldichloroethylene DDD - Dichlorodiphenyldichloroethane

Criteria: National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013).



| Lordin         Lordin labeling         Lordin labeling         Lordin labeling         Headchlordenane         PiCA         Peccapito  |   |                           |       |      |   |           |          |        |           |       |       |           |          |       |        |               |       |        |                   |          |      |       |               |                 | ides   | estic         |          |               |                 |
|--|---|---------------------------|-------|------|---|-----------|----------|--------|-----------|-------|-------|-----------|----------|-------|--------|---------------|-------|--------|-------------------|----------|------|-------|---------------|-----------------|--------|---------------|----------|---------------|-----------------|
| Units         mg/kg         mg/kg <t< th=""><th>+ Sum of other To<br/>Organochlorine Organo<br/>pesticides Pest</th><th>Sum of DDD +<br/>DDE + DDT</th><th></th><th></th><th></th><th>Toxaphene</th><th>Picloram</th><th>ordane</th><th>Oxychlord</th><th>Mirex</th><th>chlor</th><th>Methoxych</th><th>Mecoprop</th><th>мсра</th><th>ethane</th><th>Hexachloroeth</th><th></th><th>ene He</th><th>Hexachlorobenzene</th><th>ptachlor</th><th>lrin</th><th>e Die</th><th>Endrin ketone</th><th>Endrin aldehyde</th><th>Endrin</th><th></th><th>te</th><th>Aı</th><th></th></t<>  | + Sum of other To<br>Organochlorine Organo<br>pesticides Pest | Sum of DDD +<br>DDE + DDT |       |      |   | Toxaphene | Picloram | ordane | Oxychlord | Mirex | chlor | Methoxych | Mecoprop | мсра  | ethane | Hexachloroeth |       | ene He | Hexachlorobenzene | ptachlor | lrin | e Die | Endrin ketone | Endrin aldehyde | Endrin |               | te       | Aı            |                 |
| HIL C - Recreational (NEPM 2013)         20  | 0.1 0   | 0.05                      | 0.05  | ).05 |   | 1.0       | 0.5      | 05     | 0.05      | 0.01  | 5     | 0.05      | 0.5      | 0.5   |        | 0.1           | 0.1   |        | 0.05              | 0.05     | 15   | 0.    | 0.05          | 0.05            | 0.05   |               | 1        |               |                 |
| HIL - vertexe         Vertexe         Vertex         Vertex <t< th=""><th>mg/kg mg</th><th>mg/kg</th><th>mg/k</th><th>g/kg</th><th></th><th>mg/kg</th><th>mg/kg</th><th>/kg</th><th>mg/kg</th><th>mg/kg</th><th>(g</th><th>mg/kg</th><th>mg/kg</th><th>mg/kg</th><th>1</th><th>mg/kg</th><th>mg/kg</th><th></th><th>mg/kg</th><th>mg/kg</th><th>kg</th><th>mg</th><th>mg/kg</th><th>mg/kg</th><th>mg/kg</th><th></th><th>5</th><th>ι</th><th></th></t<>  | mg/kg mg  | mg/kg                     | mg/k  | g/kg |   | mg/kg     | mg/kg    | /kg    | mg/kg     | mg/kg | (g    | mg/kg     | mg/kg    | mg/kg | 1      | mg/kg         | mg/kg |        | mg/kg             | mg/kg    | kg   | mg    | mg/kg         | mg/kg           | mg/kg  |               | 5        | ι             |                 |
| Sample Name         Sample                                 |   | 400                       | 400   | 10   |   | 30        | 5,700    | -      |           | 20    | )     | 400       |          | 800   |        |               |       |        | 1                 | 10       |      |       |               |                 | 20     | 13)           | al (NEPM | . C - Recreat | HIL             |
| SS03         30-Oct-19         0.0         < 0.05  |   |                           |       |      |   |           |          | -      |           |       |       |           |          |       |        |               |       |        |                   |          |      |       |               |                 |        | e (NEPM 2013) | Open Spa | esidential/Pu | EIL - Urban Res |
| SS09         30-Oct:19         0.0         < 0.05  | · · · · ·   |                           |       |      |   | •         |          |        |           |       |       |           |          |       |        |               |       |        |                   |          |      |       |               |                 |        | art Depth (m) | ate      | s Samp        | Sample Name     |
| SS11       30-Oct-19       0.0       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05  | -   | < 0.05                    | < 0.0 | 0.05 |   | -         | -        | .05    | < 0.05    | -     | 05    | < 0.05    | -        | -     |        | < 0.1         | < 0.1 |        | < 0.05            | < 0.05   | .05  | <     | < 0.05        | < 0.05          | < 0.05 | 0.0           | 19       | 30-0          | SS03            |
| SS15       30-Oct-19       0.0       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05  | -   | < 0.05                    | < 0.0 | 0.05 |   | -         | -        | .05    | < 0.05    | -     | 05    | < 0.05    | -        | -     |        | < 0.1         | < 0.1 |        | < 0.05            | < 0.05   | .05  | <     | < 0.05        | < 0.05          | < 0.05 | 0.0           | 19       | 30-0          | SS09            |
| SS22       30-Oct-19       0.0       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05  | -   | < 0.05                    | < 0.0 | 0.05 |   | -         | -        | .05    | < 0.05    | -     | 05    | < 0.05    | -        | -     |        | < 0.1         | < 0.1 |        | < 0.05            | < 0.05   | .05  | <     | < 0.05        | < 0.05          | < 0.05 | 0.0           | 19       | 30-0          | SS11            |
| SS28       30-Oct-19       0.0       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05  | -   | < 0.05                    |       | 0.05 |   | -         | -        | .05    | < 0.05    | -     | 05    | < 0.05    | -        | -     |        | -             |       |        |                   | < 0.05   | .05  | <     | < 0.05        | < 0.05          | < 0.05 | 0.0           | 19       | 30-0          |                 |
| BS10_0.1       08-Apr-20       0.1       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05  | -   | < 0.05                    | < 0.0 | 0.05 |   | -         | -        | .05    | < 0.05    | -     | 05    | < 0.05    | -        | -     |        | < 0.1         | < 0.1 |        | < 0.05            | < 0.05   | .05  | <     | < 0.05        | < 0.05          | < 0.05 | 0.0           | 19       | 30-0          | SS22            |
| CG02_0.1       08-Apr-20       0.1       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05  | -   | < 0.05                    |       | 0.05 |   | -         | -        | .05    | < 0.05    | -     | 05    | < 0.05    | -        | -     |        | < 0.1         | < 0.1 |        |                   | < 0.05   |      |       | < 0.05        |                 |        | 0.0           | 19       | 30-0          | SS28            |
| CG07_0.1       08-Apr-20       0.1       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05  | < 0.1 <   | < 0.05                    |       |      |   |           | -        |        | -         | -     |       |           | -        | -     |        | -             | -     |        |                   |          |      |       |               |                 |        |               | -        |               |                 |
| CG09_0.1       08-Apr-20       0.1       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05  | < 0.1 <   | < 0.05                    |       |      |   |           | -        |        | -         | -     |       |           | -        | -     |        | -             | -     |        |                   |          |      |       |               |                 |        | -             |          |               |                 |
| CG12_0.1       08-Apr-20       0.1       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05  | < 0.1 <   | < 0.05                    |       |      |   |           | -        | ·      | -         | -     |       |           | -        | -     |        | -             | -     |        |                   |          |      | _     |               |                 |        | -             | -        |               |                 |
| FB03_0.1         08-Apr-20         0.1         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.0  | < 0.1 <   |                           |       |      | _ |           | -        | ·      |           |       |       |           |          |       |        |               |       |        |                   |          |      |       |               |                 |        |               |          |               | _               |
| FB05_0.1         08-Apr-20         0.1         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.05         < 0.0  | < 0.1 <   |                           |       |      |   |           | -        | ·      |           | -     |       |           |          | -     |        |               | -     |        |                   |          |      |       |               |                 |        |               | -        |               |                 |
| MY01_0.1 09-Apr-20 0.1 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 < | < 0.1 <   |                           |       |      | _ |           | -        | •      |           |       |       |           |          |       |        |               |       |        |                   |          |      |       |               |                 |        |               |          |               |                 |
|  | < 0.1 <   |                           |       |      |   |           | -        |        |           |       |       |           |          |       |        | -             |       |        |                   |          |      |       |               |                 |        |               | -        |               |                 |
|  | < 0.1 <   |                           |       |      |   |           | -        |        |           |       |       |           |          |       |        | -             |       | _      |                   |          |      |       |               |                 |        |               |          |               |                 |
| PG02_0.1       09-Apr-20       0.1       < 0.05       -       < < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05       < 0.05         | - < 0.1 <   | < 0.05                    |       |      |   |           | < 0.5    |        |           |       |       |           |          |       |        |               | -     |        |                   |          |      | _     |               |                 |        |               |          |               |                 |

Notes: - - Not analysed < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting mg/kg - Milligrams per kilogram DDT - Dichlorodiphenyltrichloroethane 2,4,5-T - 2,4,5-Trichlorophenoxyacetic acid MCPA - 2-methyl-4-chlorophenoxyacetic acid DDE - Dichlorodiphenyldichloroethylene DDD - Dichlorodiphenyldichloroethane

Criteria: National Environment Protection (Assessment of Site Contar



|                   |                     |                   |         |                 |               |                          |           |           |           |            |          |            |            |       |        | Or       | ganophosphorus | Pesticides    |          |           |         |           |               |
|-------------------|---------------------|-------------------|---------|-----------------|---------------|--------------------------|-----------|-----------|-----------|------------|----------|------------|------------|-------|--------|----------|----------------|---------------|----------|-----------|---------|-----------|---------------|
|                   | Analyte             |                   | Bolstar | Chlorfenvinphos | Chlorpyriphos | Chlorpyriphos-<br>methyl | Coumaphos | Demeton-S | Demeton-O | Disulfoton | Diazinon | Dichlorvos | Dimethoate | EPN   | Ethion | Ethoprop | Fenitrothion   | Fensulfothion | Fenthion | Malathion | Merphos | Mevinphos | Monocrotophos |
|                   | LOR                 |                   | 0.2     | 0.2             | 0.2           | 0.2                      | 2.0       | 0.2       | 0.2       | 0.2        | 0.2      | 0.2        | 0.2        | 0.2   | 0.2    | 0.2      | 0.2            | 0.2           | 0.2      | 0.2       | 0.2     | 0.2       | 2.0           |
|                   | Units               |                   | mg/kg   | mg/kg           | mg/kg         | mg/kg                    | mg/kg     | mg/kg     | mg/kg     | mg/kg      | mg/kg    | mg/kg      | mg/kg      | mg/kg | mg/kg  | mg/kg    | mg/kg          | mg/kg         | mg/kg    | mg/kg     | mg/kg   | mg/kg     | mg/kg         |
| HIL C             | - Recreational (NE  | PM 2013)          |         |                 | 250           |                          |           |           |           |            |          |            |            |       |        |          |                |               |          |           |         |           |               |
| EIL - Urban Resid | dential/Public Open | Space (NEPM 2013) |         |                 |               |                          |           |           |           |            |          |            |            |       |        |          |                |               |          |           |         |           |               |
| Sample Name       | Sample Date         | Start Depth (m)   |         |                 |               |                          |           |           |           |            |          | •          |            |       | •      |          |                | •             |          |           |         |           |               |
| SS03              | 30-Oct-19           | 0.0               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| SS09              | 30-Oct-19           | 0.0               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| SS11              | 30-Oct-19           | 0.0               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| SS15              | 30-Oct-19           | 0.0               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| SS22              | 30-Oct-19           | 0.0               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| SS28              | 30-Oct-19           | 0.0               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| BS10_0.1          | 08-Apr-20           | 0.1               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| CG02_0.1          | 08-Apr-20           | 0.1               | < 0.2   | < 0.2           | < 0.2         | < 0.2                    | < 2.0     | < 0.2     | < 0.2     | < 0.2      | < 0.2    | < 0.2      | < 0.2      | < 0.2 | < 0.2  | < 0.2    | < 0.2          | < 0.2         | < 0.2    | < 0.2     | < 0.2   | < 0.2     | < 2.0         |
| CG07_0.1          | 08-Apr-20           | 0.1               | < 0.2   | < 0.2           | < 0.2         | < 0.2                    | < 2.0     | < 0.2     | < 0.2     | < 0.2      | < 0.2    | < 0.2      | < 0.2      | < 0.2 | < 0.2  | < 0.2    | < 0.2          | < 0.2         | < 0.2    | < 0.2     | < 0.2   | < 0.2     | < 2.0         |
| CG09_0.1          | 08-Apr-20           | 0.1               | < 0.2   | < 0.2           | < 0.2         | < 0.2                    | < 2.0     | < 0.2     | < 0.2     | < 0.2      | < 0.2    | < 0.2      | < 0.2      | < 0.2 | < 0.2  | < 0.2    | < 0.2          | < 0.2         | < 0.2    | < 0.2     | < 0.2   | < 0.2     | < 2.0         |
| CG12_0.1          | 08-Apr-20           | 0.1               | < 0.2   | < 0.2           | < 0.2         | < 0.2                    | < 2.0     | < 0.2     | < 0.2     | < 0.2      | < 0.2    | < 0.2      | < 0.2      | < 0.2 | < 0.2  | < 0.2    | < 0.2          | < 0.2         | < 0.2    | < 0.2     | < 0.2   | < 0.2     | < 2.0         |
| FB03_0.1          | 08-Apr-20           | 0.1               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| FB05_0.1          | 08-Apr-20           | 0.1               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| MY01_0.1          | 09-Apr-20           | 0.1               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| PG02_0.1          | 09-Apr-20           | 0.1               | -       | -               | < 0.2         | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |
| PV07_0.7          | 08-Apr-20           | 0.7               | -       | -               | -             | -                        | -         | -         | -         | -          | -        | -          | -          | -     | -      | -        | -              | -             | -        | -         | -       | -         | -             |

Notes: - Not analysed < Less than laboratory limit of reporting LOR - Laboratory limit of reporting mg/kg - Milligrams per kilogram DDT - Dichlorodiphenyltrichloroethane 2,4,5-T - 2,4,5-Trichlorophenoxyacetic acid MCPA - 2-methyl-4-chlorophenoxyacetic acid DDE - Dichlorodiphenyldichloroethylene DDD - Dichlorodiphenyldichloroethane

Criteria: National Environment Protection (Assessment of Site Contar



|                   | Analyte             |                   | Omethoate | Parathion | Parathion-methyl | Phorate | Pirimiphos-methyl | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Atrazine | Bifenthrin | Naled | Pyrazophos | Tokuthion |
|-------------------|---------------------|-------------------|-----------|-----------|------------------|---------|-------------------|--------|----------|-------------------|---------------|----------|------------|-------|------------|-----------|
|                   | LOR                 |                   | 2.0       | 0.2       | 0.2              | 0.2     | 0.2               | 0.2    | 0.2      | 0.2               | 0.2           | 0.2      | 0.05       | 0.2   | 0.2        | 0.2       |
|                   | Units               |                   | mg/kg     | mg/kg     | mg/kg            | mg/kg   | mg/kg             | mg/kg  | mg/kg    | mg/kg             | mg/kg         | mg/kg    | mg/kg      | mg/kg | mg/kg      | mg/kg     |
| HIL C             | - Recreational (NEP | PM 2013)          |           |           |                  |         |                   |        |          |                   |               | 400      | 730        |       |            |           |
| EIL - Urban Resid | dential/Public Open | Space (NEPM 2013) |           |           |                  |         |                   |        |          |                   |               |          |            |       |            |           |
| Sample Name       | Sample Date         | Start Depth (m)   |           |           |                  |         |                   |        | •        |                   |               |          | •          |       |            |           |
| SS03              | 30-Oct-19           | 0.0               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |
| SS09              | 30-Oct-19           | 0.0               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |
| SS11              | 30-Oct-19           | 0.0               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |
| SS15              | 30-Oct-19           | 0.0               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |
| SS22              | 30-Oct-19           | 0.0               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |
| SS28              | 30-Oct-19           | 0.0               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |
| BS10_0.1          | 08-Apr-20           | 0.1               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |
| CG02_0.1          | 08-Apr-20           | 0.1               | < 2.0     | < 0.2     | < 0.2            | < 0.2   | < 0.2             | < 0.2  | < 0.2    | < 0.2             | < 0.2         | -        | -          | < 0.2 | < 0.2      | < 0.2     |
| CG07_0.1          | 08-Apr-20           | 0.1               | < 2.0     | < 0.2     | < 0.2            | < 0.2   | < 0.2             | < 0.2  | < 0.2    | < 0.2             | < 0.2         | -        | -          | < 0.2 | < 0.2      | < 0.2     |
| CG09_0.1          | 08-Apr-20           | 0.1               | < 2.0     | < 0.2     | < 0.2            | < 0.2   | < 0.2             | < 0.2  | < 0.2    | < 0.2             | < 0.2         | -        | -          | < 0.2 | < 0.2      | < 0.2     |
| CG12_0.1          | 08-Apr-20           | 0.1               | < 2.0     | < 0.2     | < 0.2            | < 0.2   | < 0.2             | < 0.2  | < 0.2    | < 0.2             | < 0.2         | -        | -          | < 0.2 | < 0.2      | < 0.2     |
| FB03_0.1          | 08-Apr-20           | 0.1               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |
| FB05_0.1          | 08-Apr-20           | 0.1               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |
| MY01_0.1          | 09-Apr-20           | 0.1               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |
| PG02_0.1          | 09-Apr-20           | 0.1               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | < 0.2    | < 0.05     | -     | -          | -         |
| PV07_0.7          | 08-Apr-20           | 0.7               | -         | -         | -                | -       | -                 | -      | -        | -                 | -             | -        | -          | -     | -          | -         |

Notes: - Not analysed < Less than laboratory limit of reporting LOR - Laboratory limit of reporting mg/kg - Milligrams per kilogram DDT - Dichlorodiphenyltrichloroethane 2,4,5-T - 2,4,5-Trichlorophenoxyacetic acid MCPA - 2-methyl-4-chlorophenoxyacetic acid DDE - Dichlorodiphenyldichloroethylene DDD - Dichlorodiphenyldichloroethane

Criteria: National Environment Protection (Assessment of Site Contar



|             |                     |                 |        |                               |  |                 | Phenolic Co       | ompounds (Non-Chl    | orinated)     |         |                                   |                                  |  |                |                             |                    | Ρ                  | henolic Compound          | ds (Chlorinated)          |                                      |                   |  |
|-------------|---------------------|-----------------|--------|-------------------------------|--|-----------------|-------------------|----------------------|---------------|---------|-----------------------------------|----------------------------------|--|----------------|-----------------------------|--------------------|--------------------|---------------------------|---------------------------|--------------------------------------|-------------------|--|
|             | Analyte             |                 | Phenol | 2-Methylphenol (o-<br>Cresol) | 3- & 4-<br>Methylphenol (m&<br>cresol) | p 2-Nitrophenol | 2,4-Dimethylpheno | ol 2,4-Dinitrophenol | 4-Nitrophenol | Dinoseb | 2-Cyclohexyl-4,6<br>dinitrophenol | - 4,6-Dinitro-2-<br>methylphenol | Non-Halogenated<br>Phenols (Sum of<br>total) | 2-Chlorophenol | 4-Chloro-3-<br>methylphenol | 2,4-Dichlorophenol | 2,6-Dichlorophenol | 2,4,6-<br>Trichlorophenol | 2,4,5-<br>Trichlorophenol | Tetrachlorophenols<br>(Sum of total) | Pentachlorophenol | Halogenated<br>Phenols (Sum of<br>total) |
|             | LOR                 |                 | 0.5    | 0.2                           | 0.4                                    | 1.0             | 0.5               | 5.0                  | 5.0           | 20      | 20                                | 5.0                              | 20   | 0.5            | 1.0                         | 0.5                | 0.5                | 1.0                       | 1.0                       | 10                                   | 1.0               | 1.0                                      |
|             | Units               |                 | mg/kg  | mg/kg                         | mg/kg                                  | mg/kg           | mg/kg             | mg/kg                | mg/kg         | mg/kg   | mg/kg                             | mg/kg                            | mg/kg  | mg/kg          | mg/kg                       | mg/kg              | mg/kg              | mg/kg                     | mg/kg                     | mg/kg                                | mg/kg             | mg/kg                                    |
| HIL C       | - Recreational (NEF | PM 2013)        | 40,000 |                               |  |                 |                   |                      |               |         |                                   |                                  |  |                |                             |                    |                    |                           |                           |                                      | 120               |  |
| Sample Name | Sample Date         | Start Depth (m) |        |                               |  |                 |                   |                      |               |         |                                   |                                  |  |                |                             |                    |                    |                           |                           |                                      |                   |  |
| SS03        | 30-Oct-19           | 0.0             | < 0.5  | -                             | -                                      | < 0.5           | < 0.5             | < 30                 | < 0.5         | < 10    | < 30                              | < 10                             | < 30   | < 0.5          | < 0.5                       | < 0.5              | < 0.5              | < 0.5                     | < 0.5                     | < 0.5                                | < 0.5             | < 0.5                                    |
| SS09        | 30-Oct-19           | 0.0             | < 0.5  | -                             | -                                      | < 0.5           | < 0.5             | < 30                 | < 0.5         | < 10    | < 30                              | < 10                             | < 30   | < 0.5          | < 0.5                       | < 0.5              | < 0.5              | < 0.5                     | < 0.5                     | < 0.5                                | < 0.5             | < 0.5                                    |
| SS11        | 30-Oct-19           | 0.0             | < 0.5  | -                             | -                                      | < 0.5           | < 0.5             | < 30                 | < 0.5         | < 10    | < 30                              | < 10                             | < 30   | < 0.5          | < 0.5                       | < 0.5              | < 0.5              | < 0.5                     | < 0.5                     | < 0.5                                | < 0.5             | < 0.5                                    |
| SS15        | 30-Oct-19           | 0.0             | < 0.5  | -                             | -                                      | < 0.5           | < 0.5             | < 30                 | < 0.5         | < 10    | < 30                              | < 10                             | < 30   | < 0.5          | < 0.5                       | < 0.5              | < 0.5              | < 0.5                     | < 0.5                     | < 0.5                                | < 0.5             | < 0.5                                    |
| SS22        | 30-Oct-19           | 0.0             | < 0.5  | -                             | -                                      | < 0.5           | < 0.5             | < 30                 | < 0.5         | < 10    | < 30                              | < 10                             | < 30   | < 0.5          | < 0.5                       | < 0.5              | < 0.5              | < 0.5                     | < 0.5                     | < 0.5                                | < 0.5             | < 0.5                                    |
| SS28        | 30-Oct-19           | 0.0             | < 0.5  | -                             | -                                      | < 0.5           | < 0.5             | < 30                 | < 0.5         | < 10    | < 30                              | < 10                             | < 30   | < 0.5          | < 0.5                       | < 0.5              | < 0.5              | < 0.5                     | < 0.5                     | < 0.5                                | < 0.5             | < 0.5                                    |
| BS10_0.1    | 08-Apr-20           | 0.1             | < 0.5  | < 0.2                         | < 0.4                                  | < 1.0           | < 0.5             | < 5.0                | < 5.0         | < 20    | < 20                              | < 5.0                            | < 20   | < 0.5          | < 1.0                       | < 0.5              | < 0.5              | < 1.0                     | < 1.0                     | < 10                                 | < 1.0             | < 1.0                                    |
| FB03_0.1    | 08-Apr-20           | 0.1             | < 0.5  | < 0.2                         | < 0.4                                  | < 1.0           | < 0.5             | < 5.0                | < 5.0         | < 20    | < 20                              | < 5.0                            | < 20   | < 0.5          | < 1.0                       | < 0.5              | < 0.5              | < 1.0                     | < 1.0                     | < 10                                 | < 1.0             | < 1.0                                    |
| FB05_0.1    | 08-Apr-20           | 0.1             | < 0.5  | < 0.2                         | < 0.4                                  | < 1.0           | < 0.5             | < 5.0                | < 5.0         | < 20    | < 20                              | < 5.0                            | < 20   | < 0.5          | < 1.0                       | < 0.5              | < 0.5              | < 1.0                     | < 1.0                     | < 10                                 | < 1.0             | < 1.0                                    |
| MY01_0.1    | 09-Apr-20           | 0.1             | < 0.5  | < 0.2                         | < 0.4                                  | < 1.0           | < 0.5             | < 5.0                | < 5.0         | < 20    | < 20                              | < 5.0                            | < 20   | < 0.5          | < 1.0                       | < 0.5              | < 0.5              | < 1.0                     | < 1.0                     | < 10                                 | < 1.0             | < 1.0                                    |
| PG02_0.1    | 09-Apr-20           | 0.1             | < 0.5  | < 0.2                         | < 0.4                                  | -               | -                 | -                    | -             | -       | -                                 | -                                | -  | -              | -                           | -                  | -                  | -                         | -                         | -                                    | < 1.0             | -  |
| PV07_0.7    | 08-Apr-20           | 0.7             | < 0.5  | < 0.2                         | < 0.4                                  | < 1.0           | < 0.5             | < 5.0                | < 5.0         | < 20    | < 20                              | < 5.0                            | < 20   | < 0.5          | < 1.0                       | < 0.5              | < 0.5              | < 1.0                     | < 1.0                     | < 10                                 | < 1.0             | < 1.0                                    |

Notes: - - Not analysed < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting mg/kg - Milligrams per kilogram

Criteria: National Environment Protection (Assessment of Site Contamination) Measure (NEPM 2013).



|             | Analyte     |                 |                               |                           |                               |                           |                    | Halogenate         | ed Aliphatic Compo      | ounds                           |                    |                            |                         |              |                        | Volatile<br>Halogenated<br>Compounds |              |               | Halogenate                 | d Aliphatic Compou |
|-------------|-------------|-----------------|-------------------------------|---------------------------|-------------------------------|---------------------------|--------------------|--------------------|-------------------------|---------------------------------|--------------------|----------------------------|-------------------------|--------------|------------------------|--------------------------------------|--------------|---------------|----------------------------|--------------------|
|             |             |                 | 1,1,1,2-<br>Tetrachloroethane | 1,1,1-<br>Trichloroethane | 1,1,2,2-<br>Tetrachloroethane | 1,1,2-<br>Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-<br>Dichloropropene | 1,2-Dibromo-3-<br>chloropropane | 1,2-Dichloroethane | 1,2,3-<br>Trichloropropane | 1,3-<br>Dichloropropane | Bromomethane | Bromochlorometha<br>ne | Carbon<br>tetrachloride              | Chloroethane | Chloromethane | cis-1,2-<br>Dichloroethene | Dibromomethane     |
|             | Units       |                 | mg/kg                         | mg/kg                     | mg/kg                         | mg/kg                     | mg/kg              | mg/kg              | mg/kg                   | mg/kg                           | mg/kg              | mg/kg                      | mg/kg                   | mg/kg        | mg/kg                  | mg/kg                                | mg/kg        | mg/kg         | mg/kg                      | mg/kg              |
| Sample Name | Sample Date | Start Depth (m) |                               |                           |                               |                           |                    |                    |                         |                                 |                    |                            |                         |              |                        |                                      |              |               |                            |                    |
| SS03        | 30-Oct-19   | 0.0             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | < 0.5                   | < 0.5                           | < 0.5              | < 0.5                      | < 0.5                   | -            | < 0.5                  | < 0.5                                | -            | -             | < 0.5                      | < 0.5              |
| SS09        | 30-Oct-19   | 0.0             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | < 0.5                   | < 0.5                           | < 0.5              | < 0.5                      | < 0.5                   | -            | < 0.5                  | < 0.5                                | -            | -             | < 0.5                      | < 0.5              |
| SS11        | 30-Oct-19   | 0.0             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | < 0.5                   | < 0.5                           | < 0.5              | < 0.5                      | < 0.5                   | -            | < 0.5                  | < 0.5                                | -            | -             | < 0.5                      | < 0.5              |
| SS15        | 30-Oct-19   | 0.0             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | < 0.5                   | < 0.5                           | < 0.5              | < 0.5                      | < 0.5                   | -            | < 0.5                  | < 0.5                                | -            | -             | < 0.5                      | < 0.5              |
| SS22        | 30-Oct-19   | 0.0             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | < 0.5                   | < 0.5                           | < 0.5              | < 0.5                      | < 0.5                   | -            | < 0.5                  | < 0.5                                | -            | -             | < 0.5                      | < 0.5              |
| SS28        | 30-Oct-19   | 0.0             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | < 0.5                   | < 0.5                           | < 0.5              | < 0.5                      | < 0.5                   | -            | < 0.5                  | < 0.5                                | -            | -             | < 0.5                      | < 0.5              |
| BS10_0.1    | 08-Apr-20   | 0.1             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | -                       | -                               | < 0.5              | < 0.5                      | < 0.5                   | < 0.5        | < 0.5                  | < 0.5                                | < 0.5        | < 0.5         | < 0.5                      | < 0.5              |
| FB03_0.1    | 08-Apr-20   | 0.1             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | -                       | -                               | < 0.5              | < 0.5                      | < 0.5                   | < 0.5        | < 0.5                  | < 0.5                                | < 0.5        | < 0.5         | < 0.5                      | < 0.5              |
| FB05_0.1    | 08-Apr-20   | 0.1             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | -                       | -                               | < 0.5              | < 0.5                      | < 0.5                   | < 0.5        | < 0.5                  | < 0.5                                | < 0.5        | < 0.5         | < 0.5                      | < 0.5              |
| MY01_0.1    | 09-Apr-20   | 0.1             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | -                       | -                               | < 0.5              | < 0.5                      | < 0.5                   | < 0.5        | < 0.5                  | < 0.5                                | < 0.5        | < 0.5         | < 0.5                      | < 0.5              |
| PV07_0.7    | 08-Apr-20   | 0.7             | < 0.5                         | < 0.5                     | < 0.5                         | < 0.5                     | < 0.5              | < 0.5              | -                       | -                               | < 0.5              | < 0.5                      | < 0.5                   | < 0.5        | < 0.5                  | < 0.5                                | < 0.5        | < 0.5         | < 0.5                      | < 0.5              |



|             | Analyte     |                 | nds                         |                 | Volatile Halogenated<br>Compounds | Halogenated<br>Aliphatic<br>Compounds | Volatile<br>Halogenated<br>Compounds | Halogenated<br>Aliphatic<br>Compounds | Volatile<br>Halogenated<br>Compounds | Halogenated<br>Aliphatic<br>Compounds | Volatile<br>Halogenated<br>Compounds |                            |                                    |                            |                                    |                            | Chlorinated M           | IAHs                    |
|-------------|-------------|-----------------|-----------------------------|-----------------|-----------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|----------------------------|------------------------------------|----------------------------|------------------------------------|----------------------------|-------------------------|-------------------------|
|             |             |                 | Dichlorodifluoromet<br>hane | Dichloromethane | Hexachlorobutadiene               | Iodomethane                           | Tetrachloroethene                    | trans-1,2-<br>Dichloroethene          | Trichloroethene                      | Trichlorofluorometh<br>ane            | Vinyl chloride                       | 1,2,4-<br>Trichlorobenzene | 1,2,3,5-<br>Tetrachlorobenzen<br>e | 1,2,3-<br>Trichlorobenzene | 1,2,4,5-<br>Tetrachlorobenzen<br>e | 1,3,5-<br>Trichlorobenzene | 1,2-<br>Dichlorobenzene | 1,3-<br>Dichlorobenzene |
|             | Units       |                 | mg/kg                       | mg/kg           | mg/kg                             | mg/kg                                 | mg/kg                                | mg/kg                                 | mg/kg                                | mg/kg                                 | mg/kg                                | mg/kg                      | mg/kg                              | mg/kg                      | mg/kg                              | mg/kg                      | mg/kg                   | mg/kg                   |
| Sample Name | Sample Date | Start Depth (m) |                             |                 |                                   |                                       |                                      |                                       |                                      |                                       |                                      |                            |                                    |                            |                                    |                            |                         |                         |
| SS03        | 30-Oct-19   | 0.0             | -                           | < 1.0           | < 0.1                             | -                                     | < 0.5                                | < 0.5                                 | < 0.5                                | < 2.0                                 | < 1.0                                | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                   | < 0.1                   |
| SS09        | 30-Oct-19   | 0.0             | -                           | < 1.0           | < 0.1                             | -                                     | < 0.5                                | < 0.5                                 | < 0.5                                | < 2.0                                 | < 1.0                                | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                   | < 0.1                   |
| SS11        | 30-Oct-19   | 0.0             | -                           | < 1.0           | < 0.1                             | -                                     | < 0.5                                | < 0.5                                 | < 0.5                                | < 2.0                                 | < 1.0                                | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                   | < 0.1                   |
| SS15        | 30-Oct-19   | 0.0             | -                           | < 1.0           | < 0.1                             | -                                     | < 0.5                                | < 0.5                                 | < 0.5                                | < 2.0                                 | < 1.0                                | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                   | < 0.1                   |
| SS22        | 30-Oct-19   | 0.0             | -                           | < 1.0           | < 0.1                             | -                                     | < 0.5                                | < 0.5                                 | < 0.5                                | < 2.0                                 | < 1.0                                | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                   | < 0.1                   |
| SS28        | 30-Oct-19   | 0.0             | -                           | < 1.0           | < 0.1                             | -                                     | < 0.5                                | < 0.5                                 | < 0.5                                | < 2.0                                 | < 1.0                                | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                              | < 0.1                      | < 0.1                   | < 0.1                   |
| BS10_0.1    | 08-Apr-20   | 0.1             | < 0.5                       | < 0.5           | < 0.5                             | < 0.5                                 | < 0.5                                | < 0.5                                 | < 0.5                                | < 0.5                                 | < 0.5                                | < 0.5                      | -                                  | -                          | -                                  | -                          | < 0.5                   | < 0.5                   |
| FB03_0.1    | 08-Apr-20   | 0.1             | < 0.5                       | < 0.5           | < 0.5                             | < 0.5                                 | < 0.5                                | < 0.5                                 | < 0.5                                | < 0.5                                 | < 0.5                                | < 0.5                      | -                                  | -                          | -                                  | -                          | < 0.5                   | < 0.5                   |
| FB05_0.1    | 08-Apr-20   | 0.1             | < 0.5                       | < 0.5           | < 0.5                             | < 0.5                                 | < 0.5                                | < 0.5                                 | < 0.5                                | < 0.5                                 | < 0.5                                | < 0.5                      | -                                  | -                          | -                                  | -                          | < 0.5                   | < 0.5                   |
| MY01_0.1    | 09-Apr-20   | 0.1             | < 0.5                       | < 0.5           | < 0.5                             | < 0.5                                 | < 0.5                                | < 0.5                                 | < 0.5                                | < 0.5                                 | < 0.5                                | < 0.5                      | -                                  | -                          | -                                  | -                          | < 0.5                   | < 0.5                   |
| PV07 0.7    | 08-Apr-20   | 0.7             | < 0.5                       | < 0.5           | < 0.5                             | < 0.5                                 | < 0.5                                | < 0.5                                 | < 0.5                                | < 0.5                                 | < 0.5                                | < 0.5                      | -                                  | -                          | -                                  | -                          | < 0.5                   | < 0.5                   |



|             | Analyte     |                 |                         |                 |                 |                 |              | Volatile<br>Halogenated<br>Compounds |                    | Chlorinated                    | MAHs            |                  | Мопосус                    | lic Aromatic Hydrod        | carbons          | Monocyclic<br>Aromatic<br>Hydrocarbons<br>(MAH) | Monocyclic Aromatic<br>Hydrocarbons           |   | Volatile Halogenated<br>Compounds              |
|-------------|-------------|-----------------|-------------------------|-----------------|-----------------|-----------------|--------------|--------------------------------------|--------------------|--------------------------------|-----------------|------------------|----------------------------|----------------------------|------------------|---|---|---|--|
|             |             |                 | 1,4-<br>Dichlorobenzene | 2-Chlorotoluene | 4-Chlorotoluene | Benzyl chloride | Bromobenzene | Chlorobenzene                        | Pentachlorobenzene | 1,2,3,4-<br>Tetrachlorobenzene | Benzal chloride | Benzotrichloride | 1,2,4-<br>Trimethylbenzene | 1,3,5-<br>Trimethylbenzene | Isopropylbenzene | Styrene   | Sum of monocyclic<br>aromatic<br>hydrocarbons | Sum of other<br>chlorinated<br>hydrocarbons | Sum of volatile<br>chlorinated<br>hydrocarbons |
|             | Units       |                 | mg/kg                   | mg/kg           | mg/kg           | mg/kg           | mg/kg        | mg/kg                                | mg/kg              | mg/kg                          | mg/kg           | mg/kg            | mg/kg                      | mg/kg                      | mg/kg            | mg/kg   | mg/kg   | mg/kg                                       | mg/kg  |
| Sample Name | Sample Date | Start Depth (m) |                         |                 |                 |                 |              |                                      |                    |                                |                 |                  |                            |                            |                  |   |   |   |  |
| SS03        | 30-Oct-19   | 0.0             | < 0.1                   | < 0.5           | < 0.5           | < 0.1           | < 0.5        | < 0.5                                | < 0.1              | < 0.1                          | < 0.1           | < 0.1            | < 0.5                      | -                          | < 0.5            | < 0.5   | -   | -   | -  |
| SS09        | 30-Oct-19   | 0.0             | < 0.1                   | < 0.5           | < 0.5           | < 0.1           | < 0.5        | < 0.5                                | < 0.1              | < 0.1                          | < 0.1           | < 0.1            | < 0.5                      | -                          | < 0.5            | < 0.5   | -   | -   | -  |
| SS11        | 30-Oct-19   | 0.0             | < 0.1                   | < 0.5           | < 0.5           | < 0.1           | < 0.5        | < 0.5                                | < 0.1              | < 0.1                          | < 0.1           | < 0.1            | < 0.5                      | -                          | < 0.5            | < 0.5   | -   | -   | -  |
| SS15        | 30-Oct-19   | 0.0             | < 0.1                   | < 0.5           | < 0.5           | < 0.1           | < 0.5        | < 0.5                                | < 0.1              | < 0.1                          | < 0.1           | < 0.1            | < 0.5                      | -                          | < 0.5            | < 0.5   | -   | -   | -  |
| SS22        | 30-Oct-19   | 0.0             | < 0.1                   | < 0.5           | < 0.5           | < 0.1           | < 0.5        | < 0.5                                | < 0.1              | < 0.1                          | < 0.1           | < 0.1            | < 0.5                      | -                          | < 0.5            | < 0.5   | -   | -   | -  |
| SS28        | 30-Oct-19   | 0.0             | < 0.1                   | < 0.5           | < 0.5           | < 0.1           | < 0.5        | < 0.5                                | < 0.1              | < 0.1                          | < 0.1           | < 0.1            | < 0.5                      | -                          | < 0.5            | < 0.5   | -   | -   | -  |
| BS10_0.1    | 08-Apr-20   | 0.1             | < 0.5                   | -               | < 0.5           | -               | < 0.5        | < 0.5                                | -                  | -                              | -               | -                | < 0.5                      | < 0.5                      | < 0.5            | < 0.5   | < 0.5   | < 0.5                                       | < 0.5  |
| FB03_0.1    | 08-Apr-20   | 0.1             | < 0.5                   | -               | < 0.5           | -               | < 0.5        | < 0.5                                | -                  | -                              | -               | -                | < 0.5                      | < 0.5                      | < 0.5            | < 0.5   | < 0.5   | < 0.5                                       | < 0.5  |
| FB05_0.1    | 08-Apr-20   | 0.1             | < 0.5                   | -               | < 0.5           | -               | < 0.5        | < 0.5                                | -                  | -                              | -               | -                | < 0.5                      | < 0.5                      | < 0.5            | < 0.5   | < 0.5   | < 0.5                                       | < 0.5  |
| MY01_0.1    | 09-Apr-20   | 0.1             | < 0.5                   | -               | < 0.5           | -               | < 0.5        | < 0.5                                | -                  | -                              | -               | -                | < 0.5                      | < 0.5                      | < 0.5            | < 0.5   | < 0.5   | < 0.5                                       | < 0.5  |
| PV07_0.7    | 08-Apr-20   | 0.7             | < 0.5                   | -               | < 0.5           | -               | < 0.5        | < 0.5                                | -                  | -                              | -               | -                | < 0.5                      | < 0.5                      | < 0.5            | < 0.5   | < 0.5   | < 0.5                                       | < 0.5  |



|             | Analyte     |                 | Trihalomet               | hanes     | Volatile<br>Halogenated<br>Compounds | Trihalomethanes          | Solv             | rents                           |         |                |                   | Fi                      | umigants                |                             |                               |                  |
|-------------|-------------|-----------------|--------------------------|-----------|--------------------------------------|--------------------------|------------------|---------------------------------|---------|----------------|-------------------|-------------------------|-------------------------|-----------------------------|-------------------------------|------------------|
|             |             |                 | Bromodichlorometh<br>ane | Bromoform | Chloroform                           | Dibromochlorometh<br>ane | 2-Butanone (MEK) | 4-Methyl-2-<br>pentanone (MIBK) | Acetone | Allyl chloride | 1,2-Dibromoethane | 1,2-<br>Dichloropropane | 2,2-<br>Dichloropropane | cis-1,3-<br>Dichloropropene | trans-1,3-<br>Dichloropropene | Carbon disulfide |
|             | Units       |                 | mg/kg                    | mg/kg     | mg/kg                                | mg/kg                    | mg/kg            | mg/kg                           | mg/kg   | mg/kg          | mg/kg             | mg/kg                   | mg/kg                   | mg/kg                       | mg/kg                         | mg/kg            |
| Sample Name | Sample Date | Start Depth (m) |                          |           |                                      |                          |                  |                                 |         |                |                   |                         |                         |                             |                               |                  |
| SS03        | 30-Oct-19   | 0.0             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | -                | -                               | -       | -              | < 0.5             | < 0.5                   | < 0.5                   | < 0.5                       | < 0.5                         | -                |
| SS09        | 30-Oct-19   | 0.0             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | -                | -                               | -       | -              | < 0.5             | < 0.5                   | < 0.5                   | < 0.5                       | < 0.5                         | -                |
| SS11        | 30-Oct-19   | 0.0             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | -                | -                               | -       | -              | < 0.5             | < 0.5                   | < 0.5                   | < 0.5                       | < 0.5                         | -                |
| SS15        | 30-Oct-19   | 0.0             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | -                | -                               | -       | -              | < 0.5             | < 0.5                   | < 0.5                   | < 0.5                       | < 0.5                         | -                |
| SS22        | 30-Oct-19   | 0.0             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | -                | -                               | -       | -              | < 0.5             | < 0.5                   | < 0.5                   | < 0.5                       | < 0.5                         | -                |
| SS28        | 30-Oct-19   | 0.0             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | -                | -                               | -       | -              | < 0.5             | < 0.5                   | < 0.5                   | < 0.5                       | < 0.5                         | -                |
| BS10_0.1    | 08-Apr-20   | 0.1             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | < 0.5            | < 0.5                           | < 0.5   | < 0.5          | < 0.5             | < 0.5                   | -                       | < 0.5                       | < 0.5                         | < 0.5            |
| FB03_0.1    | 08-Apr-20   | 0.1             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | < 0.5            | < 0.5                           | < 0.5   | < 0.5          | < 0.5             | < 0.5                   | -                       | < 0.5                       | < 0.5                         | < 0.5            |
| FB05_0.1    | 08-Apr-20   | 0.1             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | < 0.5            | < 0.5                           | < 0.5   | < 0.5          | < 0.5             | < 0.5                   | -                       | < 0.5                       | < 0.5                         | < 0.5            |
| MY01_0.1    | 09-Apr-20   | 0.1             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | < 0.5            | < 0.5                           | < 0.5   | < 0.5          | < 0.5             | < 0.5                   | -                       | < 0.5                       | < 0.5                         | < 0.5            |
| PV07 0.7    | 08-Apr-20   | 0.7             | < 0.5                    | < 0.5     | < 0.5                                | < 0.5                    | < 0.5            | < 0.5                           | < 0.5   | < 0.5          | < 0.5             | < 0.5                   | -                       | < 0.5                       | < 0.5                         | < 0.5            |



## Table 9 Quality Control Sample Analysis - Metals Glenlyon Reserve Suttons Lane Glenlyon, Victoria

|                                    |                                 |                       |              |                |           | Ме         | tals    |          |           |           |
|------------------------------------|---------------------------------|-----------------------|--------------|----------------|-----------|------------|---------|----------|-----------|-----------|
|                                    | Analyte                         |                       | Arsenic      | Cadmium        | Chromium  | Copper     | Iron    | Lead     | Nickel    | Zinc      |
|                                    | Units                           |                       | mg/kg        | mg/kg          | mg/kg     | mg/kg      | mg/kg   | mg/kg    | mg/kg     | mg/kg     |
| Sample Name                        | Sample Date                     | Sample Type           |              | -              |           |            |         | -        |           |           |
| OG36_0.6_06042020                  | 06-Apr-20                       | Primary               | 5.1          | < 0.4          | 27        | 12         | -       | 33       | 11        | 23        |
| QC01_06042020                      | 06-Apr-20                       | Duplicate             | 5.0          | < 0.4          | 33        | 12         | -       | 31       | 14        | 29        |
|                                    | Percentage Differe<br>06-Apr-20 | r                     | 2%           | NC             | 20%<br>27 | 0%         | NC -    | 6%<br>33 | 24%       | 23%       |
| OG36_0.6_06042020<br>QC02_06042020 | 06-Apr-20                       | Primary<br>Triplicate | 5.1<br>10    | < 0.4<br>< 1.0 | 27        | 12<br>11   | -       | 46       | 11<br>12  | 23<br>18  |
|                                    | Percentage Differe              |                       | 65%          | NC             | 0%        | 9%         | NC      | 33%      | 9%        | 24%       |
| OG04 0.1 06042020                  | 06-Apr-20                       | Primary               | 4.2          | < 0.4          | 26        | 14         | -       | 130      | 11        | 22        |
| QC03 06042020                      | 06-Apr-20                       | Duplicate             | 3.7          | < 0.4          | 30        | 14         | -       | 83       | 13        | 26        |
|                                    | Percentage Differe              |                       | 13%          | NC             | 14%       | 0%         | NC      | 44%      | 17%       | 17%       |
| OG04_0.1_06042020                  | 06-Apr-20                       | Primary               | 4.2          | < 0.4          | 26        | 14         | -       | 130      | 11        | 22        |
| QC04_06042020                      | 06-Apr-20                       | Triplicate            | 6.0          | < 1.0          | 26        | 14         | -       | 56       | 11        | 19        |
|                                    | Percentage Differe              |                       | 35%          | NC             | 0%        | 0%         | NC      | 80%      | 0%        | 15%       |
| OG26_0.1_07042020                  | 07-Apr-20                       | Primary               | 4.5          | < 0.4          | 20        | 7.5        | -       | 42       | 10        | 42        |
| QC08_07042020                      | 07-Apr-20                       | Duplicate             | 4.0          | < 0.4          | 21        | 7.4        | -       | 98       | 11        | 47        |
|                                    | Percentage Differe              |                       | 12%          | NC             | 5%        | 1%         | NC      | 80%      | 10%       | 11%       |
| OG26_0.1_07042020                  | 07-Apr-20                       | Primary               | 4.5          | < 0.4          | 20        | 7.5        | -       | 42       | 10        | 42        |
| QC09_07042020                      | 07-Apr-20                       | Triplicate            | 5.0          | < 1.0          | 18        | 7.0        | -       | 45       | 10        | 38        |
|                                    | Percentage Differe              |                       | 11%          | NC             | 11%       | 7%         | NC      | 7%       | 0%        | 10%       |
| OG20_0.4_07042020<br>QC10_07042020 | 07-Apr-20<br>07-Apr-20          | Primary<br>Duplicate  | 6.8<br>5.8   | < 0.4          | 47<br>40  | 12<br>12   | -       | 50<br>72 | 14<br>15  | 20<br>20  |
|                                    | Percentage Differe              |                       | 16%          | < 0.4<br>NC    | 16%       | 0%         | NC      | 36%      | 7%        | 0%        |
| OG20_0.4_07042020                  | 07-Apr-20                       | Primary               | 6.8          | < 0.4          | 47        | 12         | -       | 50       | 14        | 20        |
| OC11 07042020                      | 07-Apr-20                       | Triplicate            | 6.0          | < 1.0          | 34        | 11         | -       | 49       | 13        | 14        |
|                                    | Percentage Differe              |                       | 13%          | NC             | 32%       | 9%         | NC      | 2%       | 7%        | 35%       |
| CG03 0.1 08042020                  | 08-Apr-20                       | Primary               | < 2.0        | < 0.4          | 14        | < 5.0      | -       | 9.4      | < 5.0     | 15        |
| QC15_08042020                      | 08-Apr-20                       | Duplicate             | < 2.0        | < 0.4          | 13        | < 5.0      | -       | 10       | < 5.0     | 14        |
| Relative                           | Percentage Differe              | nce                   | NC           | NC             | 7%        | NC         | NC      | 6%       | NC        | 7%        |
| CG03_0.1_08042020                  | 08-Apr-20                       | Primary               | < 2.0        | < 0.4          | 14        | < 5.0      | -       | 9.4      | < 5.0     | 15        |
| QC16_08042020                      | 08-Apr-20                       | Triplicate            | < 5.0        | < 1.0          | 14        | < 5.0      | -       | 9.0      | 4.0       | 11        |
|                                    | Percentage Differe              | nce                   | NC           | NC             | 0%        | NC         | NC      | 4%       | 22%       | 31%       |
| CG02_0.5_08042020                  | 08-Apr-20                       | Primary               | 3.4          | < 0.4          | 36        | 16         | -       | 21       | 29        | 42        |
| QC17_08042020                      | 08-Apr-20                       | Duplicate             | 3.0          | < 0.4          | 34        | 14         | -       | 19       | 31        | 36        |
|                                    | Percentage Differe              | r                     | 13%          | NC             | 6%        | 13%        | NC      | 10%      | 7%        | 15%       |
| CG02_0.5_08042020                  | 08-Apr-20                       | Primary               | 3.4          | < 0.4          | 36        | 16         | -       | 21       | 29        | 42        |
| QC18_08042020<br>Relative          | 08-Apr-20<br>Percentage Differe | Triplicate            | < 5.0<br>38% | < 1.0<br>NC    | 30<br>18% | 14<br>13%  | -<br>NC | 21<br>0% | 22<br>27% | 24<br>55% |
| PG01_0.1_09042020                  | 09-Apr-20                       | Primary               | 5.7          | < 0.4          | 35        | 13%        | - INC   | 17       | 27%       | 46        |
| QC23 09042020                      | 09-Apr-20                       | Duplicate             | 8.3          | < 0.4          | 62        | 13         | -       | 17       | 25        | 43        |
|                                    | Percentage Differe              |                       | 37%          | NC             | 56%       | 0%         | NC      | 6%       | 4%        | 7%        |
| PG01 0.1 09042020                  | 09-Apr-20                       | Primary               | 5.7          | < 0.4          | 35        | 13         | -       | 17       | 25        | 46        |
| QC24_09042020                      | 09-Apr-20                       | Triplicate            | 10           | < 1.0          | 35        | 10         | -       | 17       | 19        | 38        |
|                                    | Percentage Differe              |                       | 55%          | NC             | 0%        | 26%        | NC      | 0%       | 27%       | 19%       |
| OG53_0.1_09042020                  | 09-Apr-20                       | Primary               | 12           | < 0.4          | 37        | 13         | 23,000  | 81       | 18        | 27        |
| QC25_09042020                      | 09-Apr-20                       | Duplicate             | 4.5          | < 0.4          | 26        | 13         | -       | 21       | 13        | 21        |
|                                    | Percentage Differe              |                       | 91%          | NC             | 35%       | 0%         | NC      | 118%     | 32%       | 25%       |
| OG53_0.1_09042020                  | 09-Apr-20                       | Primary               | 12           | < 0.4          | 37        | 13         | 23,000  | 81       | 18        | 27        |
| QC26_09042020                      | 09-Apr-20                       | Triplicate            | 6.0          | < 1.0          | 33        | 13         | -       | 24       | 16        | 24        |
|                                    | Percentage Differe              | r                     | 67%          | NC             | 11%       | 0%         | NC      | 109%     | 12%       | 12%       |
| SD01_09042020                      | 09-Apr-20                       | Primary               | 7.8          | < 0.4          | 17        | 10         | -       | 16       | 11        | 39        |
| QC27_09042020                      | 09-Apr-20                       | Duplicate             | 3.6          | < 0.4          | 11        | < 5.0      | -       | 12       | 7.5       | 24        |
|                                    | Percentage Differe              |                       | 74%          | NC             | 43%       | <b>67%</b> | NC      | 29%      | 38%       | 48%       |
|                                    | 09-Apr-20                       | Primary               | 7.8          | < 0.4          | 17        | 10         | -       | 16       | 11        | 39        |
| SD01_09042020<br>QC28_09042020     | 09-Apr-20                       | Triplicate            | 35           | < 1.0          | 14        | 6.0        |         | 14       | 12        | 65        |

Notes: - - Not analysed < - Less than laboratory limit of reporting NC - Not calculated mg/kg - Milligrams per kilogram RPD - Relative Percentage Difference

Criteria:



### Table 9A Quality Control Sample Analysis - Metals Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|                   | Metals      |             |    |  |  |  |
|-------------------|-------------|-------------|----|--|--|--|
|                   | Lead        |             |    |  |  |  |
|                   | mg/kg       |             |    |  |  |  |
| Sample Name       | Sample Date | Sample Type |    |  |  |  |
| SB07_0.1_05012021 | 05-Jan-21   | Primary     | 35 |  |  |  |
| QC01_0.1_05012021 | 05-Jan-21   | Duplicate   | 34 |  |  |  |
| Relative I        | 3%          |             |    |  |  |  |
| SB07_0.1_05012021 | 05-Jan-21   | Primary     | 35 |  |  |  |
| QC02_0.1_05012021 | 05-Jan-21   | Triplicate  | 32 |  |  |  |
| Relative F        | 9%          |             |    |  |  |  |

Notes:

mg/kg - Milligrams per kilogram



# Table 10 Quality Control Sample Analysis - PAHs Glenlyon Reserve Suttons Lane Glenlyon, Victoria

|   |                | Polycyclic Aromatic Hydrocarbons |                     |                |                      |                     |                |                |                |                    |                      |                      | Polycyclic Aromatic Hydrocarbons |                     |                        |                        |                        |                    |                              |                             |                                    |
|---|----------------|----------------------------------|---------------------|----------------|----------------------|---------------------|----------------|----------------|----------------|--------------------|----------------------|----------------------|----------------------------------|---------------------|------------------------|------------------------|------------------------|--------------------|------------------------------|-----------------------------|------------------------------------|
| Analyte   | Naphthalene    | Acenaphthylene                   | Acenaphthene        | Fluorene       | Phenanthrene         | Anthracene          | Fluoranthene   | Pyrene         | Chrysene       | Benzo[a]anthracene | Benzo[b]fluoranthene | Benzo[k]fluoranthene | Benzo(b+j)fluoranther<br>e       | n<br>Benzo[a]pyrene | Indeno[1,2,3-c,d]pyren | e Dibenz[a,h]anthracen | e Benzo[g,h,i]perylene | Total PAH          | Benzo[a]pyrene<br>TEQ (Zero) | Benzo[a]pyrene<br>TEQ (LOR) | e Benzo[a]pyrene<br>TEQ (Half LOR) |
| Units   | mg/kg          | mg/kg                            | mg/kg               | mg/kg          | mg/kg                | mg/kg               | mg/kg          | mg/kg          | mg/kg          | mg/kg              | mg/kg                | mg/kg                | mg/kg                            | mg/kg               | mg/kg                  | mg/kg                  | mg/kg                  | mg/kg              | mg/kg                        | mg/kg                       | mg/kg                              |
| Sample Name Sample Date Sample Type                                       |                |                                  |                     |                |                      |                     |                |                |                |                    |                      |                      |                                  |                     |                        |                        |                        |                    |                              |                             |                                    |
| OG36_0.6_06042020 06-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| QC01_06042020 06-Apr-20 Duplicate   | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5<br>NC    | < 0.5              | < 0.5                | < 0.5                | -<br>NC                          | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5<br>NC        | < 0.5                        | -                           | 0.6                                |
| Relative Percentage Difference OG36_0.6_06042020 06-Apr-20 Primary        | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | INC -                            | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | NC -                        | 0%                                 |
| QC02 06042020 06-Apr-20 Triplicate  | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | -                    | < 0.5                | < 0.5                            | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | 1.2                         | 0.6                                |
| Relative Percentage Difference  | NC             | NC                               | NC                  | NC             | NC                   | NC                  | NC             | NC             | NC             | NC                 | NC                   | NC                   | NC                               | NC                  | NC                     | NC                     | NC                     | NC                 | NC                           | NC                          | 0%                                 |
| OG04_0.1_06042020 06-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | 1.3            | 1.3            | 0.8            | 0.7                | 0.7                  | 0.9                  | -                                | 1.1                 | < 0.5                  | < 0.5                  | < 0.5                  | 6.8                | 1.3                          | -                           | 1.6                                |
| QC03_06042020 06-Apr-20 Duplicate   | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| Relative Percentage Difference OG04 0.1 06042020 06-Apr-20 Primary        | NC<br>< 0.5    | NC<br>< 0.5                      | NC<br>< 0.5         | NC<br>< 0.5    | NC<br>< 0.5          | NC<br>< 0.5         | <b>89%</b>     | <b>89%</b>     | 46%            | 33%                | 33%                  | <b>57%</b>           | NC                               | 75%                 | NC<br>< 0.5            | NC<br>< 0.5            | NC<br>< 0.5            | <b>173%</b><br>6.8 | 89%                          | NC                          | 91%<br>1.6                         |
| QC04 06042020 06-Apr-20 Primary<br>QC04 06042020 06-Apr-20 Triplicate     | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | - 0.7                | < 0.5                | < 0.5                            | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | 1.2                         | 0.6                                |
| Relative Percentage Difference  | NC NC          | NC                               | NC NC               | NC             | NC NC                | NC NC               | 89%            | 89%            | 46%            | 33%                | NC                   | 57%                  | NC NC                            | 75%                 | NC NC                  | NC NC                  | NC NC                  | 173%               | 89%                          | NC                          | 91%                                |
| OG26 0.1 07042020 07-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | 1.7            | 1.5            | 1.4            | 0.9                | 1.1                  | 1.2                  | -                                | 1.4                 | 1.0                    | 0.5                    | 1.1                    | 12                 | 2.3                          | -                           | 2.3                                |
| QC08 07042020 07-Apr-20 Duplicate   | < 0.5          | < 0.5                            | 1.0                 | < 0.5          | 7.1                  | 1.4                 | 25             | 23             | 15             | 11                 | 12                   | 11                   | -                                | 13                  | 9.2                    | 2.2                    | 8.4                    | 139                | 20                           | -                           | 20                                 |
| Relative Percentage Difference<br>OG26 0.1 07042020 07-Apr-20 Primary     | NC<br>< 0.5    | NC<br>< 0.5                      | <b>67%</b><br>< 0.5 | NC<br>< 0.5    | <b>174%</b><br>< 0.5 | <b>95%</b><br>< 0.5 | 175%           | 176%<br>1.5    | 166%           | 170%<br>0.9        | 166%                 | 161%                 | NC                               | 161%                | 161%                   | 0.5                    | 154%                   | 169%               | 159%                         | NC                          | <b>159%</b>                        |
| OG26 0.1 07042020 07-Apr-20 Primary<br>OC09 07042020 07-Apr-20 Triplicate | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | 4.5            | 4.3            | 3.6            | 3.2                | 1.1                  | 2.0                  | 6.8                              | 5.1                 | 2.9                    | 0.9                    | 3.6                    | 39                 | 7.6                          | 7.6                         | 2.3                                |
| Relative Percentage Difference  | NC NC          | NC NC                            | NC NC               | NC NC          | 105%                 | NC.                 | 90%            | 97%            | 88%            | 112%               | NC                   | 50%                  | NC NC                            | 114%                | 97%                    | 57%                    | 106%                   | 106%               | 107%                         | NC.                         | 107%                               |
| OG20 0.4 07042020 07-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| QC10 07042020 07-Apr-20 Duplicate   | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                |                                  | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| Relative Percentage Difference  | NC             | NC                               | NC                  | NC             | NC                   | NC                  | NC             | NC             | NC             | NC                 | NC                   | NC                   | NC                               | NC                  | NC                     | NC                     | NC                     | NC                 | NC                           | NC                          | 0%                                 |
| OG20 0.4 07042020 07-Apr-20 Primary                                       | < 0.5<br>< 0.5 | < 0.5<br>< 0.5                   | < 0.5<br>< 0.5      | < 0.5<br>< 0.5 | < 0.5                | < 0.5               | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5              | < 0.5                | < 0.5<br>< 0.5       | - < 0.5                          | < 0.5<br>< 0.5      | < 0.5<br>< 0.5         | < 0.5<br>< 0.5         | < 0.5<br>< 0.5         | < 0.5<br>< 0.5     | < 0.5<br>< 0.5               | - 1.2                       | 0.6                                |
| OC11 07042020 07-Apr-20 Triplicate<br>Relative Percentage Difference      | < 0.5<br>NC    | < 0.5                            | × 0.5<br>NC         | < 0.5          | NC                   | × 0.5               | < 0.5<br>NC    | × 0.5<br>NC    | NC             | < 0.5<br>NC        | NC                   | × 0.5                | × 0.5                            | < 0.5<br>NC         | × 0.5                  | × 0.5                  | < 0.5<br>NC            | < 0.5<br>NC        | × 0.5<br>NC                  | 1.2<br>NC                   | 0.8                                |
| CG03 0.1 08042020 08-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| QC15 08042020 08-Apr-20 Duplicate   | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| Relative Percentage Difference  | NC             | NC                               | NC                  | NC             | NC                   | NC                  | NC             | NC             | NC             | NC                 | NC                   | NC                   | NC                               | NC                  | NC                     | NC                     | NC                     | NC                 | NC                           | NC                          | 0%                                 |
| CG03 0.1 08042020 08-Apr-20 Primary                                       | < 0.5          | < 0.5<br>< 0.5                   | < 0.5<br>< 0.5      | < 0.5          | < 0.5                | < 0.5               | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | < 0.5              | < 0.5                | < 0.5<br>< 0.5       | - < 0.5                          | < 0.5               | < 0.5<br>< 0.5         | < 0.5<br>< 0.5         | < 0.5<br>< 0.5         | < 0.5              | < 0.5                        | - 1.2                       | 0.6                                |
| OC16 08042020 08-Apr-20 Triplicate<br>Relative Percentage Difference      | < 0.5<br>NC    | < 0.5                            | < 0.5<br>NC         | < 0.5          | < 0.5                | < 0.5<br>NC         | < 0.5<br>NC    | < 0.5<br>NC    | < 0.5<br>NC    | < 0.5              | NC                   | < 0.5                | < 0.5<br>NC                      | < 0.5               | < 0.5<br>NC            | < 0.5<br>NC            | < 0.5<br>NC            | < 0.5<br>NC        | < 0.5<br>NC                  | 1.2<br>NC                   | 0.8                                |
| CG02 0.5 08042020 08-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| QC17 08042020 08-Apr-20 Duplicate   | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| Relative Percentage Difference  | NC             | NC                               | NC                  | NC             | NC                   | NC                  | NC             | NC             | NC             | NC                 | NC                   | NC                   | NC                               | NC                  | NC                     | NC                     | NC                     | NC                 | NC                           | NC                          | 0%                                 |
| CG02 0.5 08042020 08-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | - 1.2                       | 0.6                                |
| OC18 08042020 08-Apr-20 Triplicate<br>Relative Percentage Difference      | < 0.5<br>NC    | < 0.5                            | < 0.5<br>NC         | < 0.5          | < 0.5<br>NC          | < 0.5<br>NC         | < 0.5          | < 0.5<br>NC    | < 0.5<br>NC    | < 0.5<br>NC        | -<br>NC              | < 0.5<br>NC          | < 0.5<br>NC                      | < 0.5<br>NC         | < 0.5<br>NC            | < 0.5<br>NC            | < 0.5<br>NC            | < 0.5<br>NC        | < 0.5<br>NC                  | 1.2<br>NC                   | 0.8                                |
| PG01 0.1 09042020 09-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| QC23 09042020 09-Apr-20 Duplicate   | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| Relative Percentage Difference  | NC             | NC                               | NC                  | NC             | NC                   | NC                  | NC             | NC             | NC             | NC                 | NC                   | NC                   | NC                               | NC                  | NC                     | NC                     | NC                     | NC                 | NC                           | NC                          | 0%                                 |
| PG01 0.1 09042020 09-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| QC24 09042020 09-Apr-20 Triplicate<br>Relative Percentage Difference      | < 0.5          | < 0.5                            | < 0.5<br>NC         | < 0.5          | < 0.5                | < 0.5<br>NC         | < 0.5          | < 0.5<br>NC    | < 0.5<br>NC    | < 0.5              | -                    | < 0.5                | < 0.5                            | < 0.5               | < 0.5<br>NC            | < 0.5                  | < 0.5                  | < 0.5<br>NC        | < 0.5<br>NC                  | 1.2<br>NC                   | 0.6<br>0%                          |
| OG53 0.1 09042020 09-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | NC -                             | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | NC -                        | 0%                                 |
| QC25 09042020 09-Apr-20 Duplicate   | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | 0.7            | 0.7            | 0.5            | 0.5                | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | 2.4                | < 0.5                        | -                           | 0.6                                |
| Relative Percentage Difference  | NC             | NC                               | NC                  | NC             | NC                   | NC                  | 33%            | 33%            | 0%             | 0%                 | NC                   | NC                   | NC                               | NC                  | NC                     | NC                     | NC                     | 131%               | NC                           | NC                          | 0%                                 |
| OG53 0.1 09042020 09-Apr-20 Primary                                       | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| QC26 09042020 09-Apr-20 Triplicate  | < 0.5          | < 0.5                            | < 0.5<br>NC         | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5<br>NC    | < 0.5<br>NC    | < 0.5<br>NC        | -<br>NC              | < 0.5                | < 0.5<br>NC                      | < 0.5               | < 0.5<br>NC            | < 0.5                  | < 0.5                  | < 0.5<br>NC        | < 0.5                        | 1.2<br>NC                   | 0.6                                |
| Relative Percentage Difference<br>SD01 09042020 09-Apr-20 Primary         | NC<br>< 0.5    | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | NC<br>< 0.5         | NC<br>< 0.5    | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | NC -                             | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | NC<br>< 0.5        | < 0.5                        | NC -                        | <u>0%</u><br>0.6                   |
| QC27 09042020 09-Apr-20 Primary<br>QC27 09042020 09-Apr-20 Duplicate      | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| Relative Percentage Difference  | NC             | NC                               | NC NC               | NC             | NC                   | NC                  | NC             | NC             | NC             | NC                 | NC                   | NC                   | NC                               | NC                  | NC                     | NC                     | NC                     | NC                 | NC                           | NC                          | 0%                                 |
| SD01 09042020 09-Apr-20 Primary   | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | < 0.5                | < 0.5                | -                                | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | -                           | 0.6                                |
| QC28 09042020 09-Apr-20 Triplicate  | < 0.5          | < 0.5                            | < 0.5               | < 0.5          | < 0.5                | < 0.5               | < 0.5          | < 0.5          | < 0.5          | < 0.5              | -                    | < 0.5                | < 0.5                            | < 0.5               | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5              | < 0.5                        | 1.2                         | 0.6                                |
| Relative Percentage Difference  | NC             | NC                               | NC                  | NC             | NC                   | NC                  | NC             | NC             | NC             | NC                 | NC                   | NC                   | NC                               | NC                  | NC                     | NC                     | NC                     | NC                 | NC                           | NC                          | 0%                                 |

Notes: - Not analysed < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting NC - Not calculated mg/kg - Milligrams per kilogram RPD - Relative Percentage Difference

Criteria:



# Table 10A Quality Control Sample Analysis - PAHs Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|                   |                     |             |             |                |              |          |              |            |              |        |          |                    | Polycyclic           | Aromatic Hydrocarbon | S                                  |                |                         |                       |                      |           |                              |                             |                                  |
|-------------------|---------------------|-------------|-------------|----------------|--------------|----------|--------------|------------|--------------|--------|----------|--------------------|----------------------|----------------------|------------------------------------|----------------|-------------------------|-----------------------|----------------------|-----------|------------------------------|-----------------------------|----------------------------------|
|                   | Analyte             |             | Naphthalene | Acenaphthylene | Acenaphthene | Fluorene | Phenanthrene | Anthracene | Fluoranthene | Pyrene | Chrysene | Benzo[a]anthracene | Benzo[b]fluoranthene | Benzo[k]fluoranthene | Benzo[b] &<br>Benzo[j]fluoranthene | Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | Benzo[g,h,i]perylene | Total PAH | Benzo[a]pyrene<br>TEQ (Zero) | Benzo[a]pyrene<br>TEQ (LOR) | Benzo[a]pyrene<br>TEQ (Half LOR) |
|                   | Units               |             | mg/kg       | mg/kg          | mg/kg        | mg/kg    | mg/kg        | mg/kg      | mg/kg        | mg/kg  | mg/kg    | mg/kg              | mg/kg                | mg/kg                | mg/kg                              | mg/kg          | mg/kg                   | mg/kg                 | mg/kg                | mg/kg     | mg/kg                        | mg/kg                       | mg/kg                            |
| Sample Name       | Sample Date         | Sample Type |             |                |              |          |              |            |              |        |          |                    |                      |                      |                                    |                |                         |                       |                      |           |                              |                             |                                  |
| SB07_0.1_05012021 | 05-Jan-21           | Primary     | < 0.5       | < 0.5          | < 0.5        | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                | < 0.5                | -                                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5                        | -                           | 0.6                              |
| QC01_0.1_05012021 | 05-Jan-21           | Duplicate   | < 0.5       | < 0.5          | < 0.5        | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                | < 0.5                | -                                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5                        | -                           | 0.6                              |
| Relative          | Percentage Differer | nce         | NC          | NC             | NC           | NC       | NC           | NC         | NC           | NC     | NC       | NC                 | NC                   | NC                   | NC                                 | NC             | NC                      | NC                    | NC                   | NC        | NC                           | NC                          | 0%                               |
| SB07_0.1_05012021 | 05-Jan-21           | Primary     | < 0.5       | < 0.5          | < 0.5        | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | < 0.5                | < 0.5                | -                                  | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5                        | -                           | 0.6                              |
| QC02_0.1_05012021 | 05-Jan-21           | Triplicate  | < 0.5       | < 0.5          | < 0.5        | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | -                    | < 0.5                | < 0.5                              | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5                        | 1.2                         | 0.6                              |
| Relative          | Percentage Differer | nce         | NC          | NC             | NC           | NC       | NC           | NC         | NC           | NC     | NC       | NC                 | NC                   | NC                   | NC                                 | NC             | NC                      | NC                    | NC                   | NC        | NC                           | NC                          | 0%                               |

Notes: - - Not analysed < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting NC - Not calculated mg/kg - Milligrams per kilogram



# Table 10B Quality Control Sample Analysis - PAHs Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|                         |                      |             |             |                |              |          |              |            |              |        |          |                    | Poly                 | cyclic Aromatic Hydroca | arbons                             |                |                         |                       |                      |           |                              |                             |                                  |
|-------------------------|----------------------|-------------|-------------|----------------|--------------|----------|--------------|------------|--------------|--------|----------|--------------------|----------------------|-------------------------|------------------------------------|----------------|-------------------------|-----------------------|----------------------|-----------|------------------------------|-----------------------------|----------------------------------|
|                         | Analyte              |             | Naphthalene | Acenaphthylene | Acenaphthene | Fluorene | Phenanthrene | Anthracene | Fluoranthene | Pyrene | Chrysene | Benzo[a]anthracene | Benzo[b]fluoranthene | Benzo[k]fluoranthene    | Benzo[b] &<br>Benzo[j]fluoranthene | Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | Benzo[g,h,i]perylene | Total PAH | Benzo[a]pyrene<br>TEQ (Zero) | Benzo[a]pyrene<br>TEQ (LOR) | Benzo[a]pyrene TEQ<br>(Half LOR) |
|                         | Units                |             | mg/kg       | mg/kg          | mg/kg        | mg/kg    | mg/kg        | mg/kg      | mg/kg        | mg/kg  | mg/kg    | mg/kg              | mg/kg                | mg/kg                   | mg/kg                              | mg/kg          | mg/kg                   | mg/kg                 | mg/kg                | mg/kg     | mg/kg                        | mg/kg                       | mg/kg                            |
| Sample Name             | Sample Date          | Sample Type |             |                |              |          |              |            |              |        |          |                    |                      |                         |                                    |                |                         |                       |                      |           |                              |                             |                                  |
| SS15_2_0.0-0.1_16122021 | 16-Dec-21            | Primary     | < 0.5       | < 0.5          | < 0.5        | < 0.5    | 2.1          | 0.6        | 6.2          | 5.8    | 3.0      | 1.9                | 8.1                  | 3.8                     | -                                  | 4.8            | 2.2                     | < 0.5                 | 1.5                  | 40        | 6.4                          | -                           | 6.7                              |
| QC01_16122021           | 16-Dec-21            | Duplicate   | < 0.5       | < 0.5          | < 0.5        | < 0.5    | 0.7          | < 0.5      | 2.5          | 2.3    | 1.0      | 0.6                | 2.8                  | 1.3                     | -                                  | 1.5            | 0.7                     | < 0.5                 | < 0.5                | 13        | 2.1                          | -                           | 2.3                              |
| Relative Per            | ercentage Difference | e           | NC          | NC             | NC           | NC       | 100%         | 18%        | 85%          | 86%    | 100%     | 104%               | 97%                  | 98%                     | NC                                 | 105%           | 103%                    | NC                    | 100%                 | 100%      | 101%                         | NC                          | 98%                              |
| SS15_2_0.0-0.1_16122021 | 16-Dec-21            | Primary     | < 0.5       | < 0.5          | < 0.5        | < 0.5    | 2.1          | 0.6        | 6.2          | 5.8    | 3.0      | 1.9                | 8.1                  | 3.8                     | -                                  | 4.8            | 2.2                     | < 0.5                 | 1.5                  | 40        | 6.4                          | -                           | 6.7                              |
| QC02_16122021           | 16-Dec-21            | Triplicate  | < 0.5       | < 0.5          | < 0.5        | < 0.5    | < 0.5        | < 0.5      | < 0.5        | < 0.5  | < 0.5    | < 0.5              | -                    | < 0.5                   | < 0.5                              | < 0.5          | < 0.5                   | < 0.5                 | < 0.5                | < 0.5     | < 0.5                        | 1.2                         | 0.6                              |
| Relative Per            | ercentage Difference | e           | NC          | NC             | NC           | NC       | 123%         | 18%        | 170%         | 168%   | 143%     | 117%               | NC                   | 153%                    | NC                                 | 162%           | 126%                    | NC                    | 100%                 | 195%      | 171%                         | NC                          | 167%                             |

Notes: - Not analysed < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting NC - Not calculated mg/kg - Milligrams per kilogram RPD - Relative Percentage Difference



#### Table 11 Quality Control Sample Analysis - BTEXN, TRH Glenlyon Reserve Suttons Lane Glenlyon, Victoria

|               | Analyte     |             |         |         |              | BTEXN                   |              |               |             | Total Petroleum<br>Hydrocarbons | Total Recove                     | rable Hydrocarbons                |
|---------------|-------------|-------------|---------|---------|--------------|-------------------------|--------------|---------------|-------------|---------------------------------|----------------------------------|-----------------------------------|
|               | Analyte     |             | Benzene | Toluene | Ethylbenzene | meta- & para-<br>Xylene | ortho-Xylene | Total Xylenes | Naphthalene | C <sub>6</sub> - C <sub>9</sub> | C <sub>6</sub> - C <sub>10</sub> | $C_6 - C_{10}$ minus BTEX<br>(F1) |
|               | Units       |             | mg/L    | mg/L    | mg/L         | mg/L                    | mg/L         | mg/L          | mg/L        | mg/L                            | mg/L                             | mg/L                              |
| Sample Name   | Sample Date | Sample Type |         |         |              |                         |              |               |             |                                 |                                  |                                   |
| QC20_06042020 | 06-Apr-20   | Trip Blank  | < 0.001 | < 0.001 | < 0.001      | < 0.002                 | < 0.001      | < 0.003       | < 0.01      | < 0.02                          | < 0.02                           | < 0.02                            |
| QC30_09042020 | 09-Apr-20   | Trip Blank  | < 0.001 | < 0.001 | < 0.001      | < 0.002                 | < 0.001      | < 0.003       | < 0.01      | < 0.02                          | < 0.02                           | < 0.02                            |

# Notes:

Less than laboratory limit of reporting
 mg/L - Milligrams per litre
 BTEXN - Benzene, toluene, ethylbenzene, total xylenes, naphthalene



## Table 12 Quality Control Sample Analysis - Metals Glenlyon Reserve Suttons Lane Glenlyon, Victoria

|               |             |             |         |          |          | Metals  |         |         |         |
|---------------|-------------|-------------|---------|----------|----------|---------|---------|---------|---------|
|               | Analyte     |             | Arsenic | Cadmium  | Chromium | Copper  | Lead    | Nickel  | Zinc    |
|               | Units       |             | mg/L    | mg/L     | mg/L     | mg/L    | mg/L    | mg/L    | mg/L    |
| Sample Name   | Sample Date | Sample Type |         |          |          |         |         |         |         |
| QC07_06042020 | 06-Apr-20   | Rinsate     | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| QC19_06042020 | 06-Apr-20   | Rinsate     | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| QC14_07042020 | 07-Apr-20   | Rinsate     | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| QC29_09042020 | 09-Apr-20   | Rinsate     | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |

Notes:

 - Less than laboratory limit of reporting mg/L - Milligrams per litre



# Table 13 Quality Control Sample Analysis - PAHs Glenlyon Reserve Suttons Lane Glenlyon, Victoria

|               |             |             |             |                |              |          |              |            |              |         | P        | olycyclic Aromatic Hyd | Irocarbons           |                      |                |                         |                       |                      |           |
|---------------|-------------|-------------|-------------|----------------|--------------|----------|--------------|------------|--------------|---------|----------|------------------------|----------------------|----------------------|----------------|-------------------------|-----------------------|----------------------|-----------|
|               | Analyte     |             | Naphthalene | Acenaphthylene | Acenaphthene | Fluorene | Phenanthrene | Anthracene | Fluoranthene | Pyrene  | Chrysene | Benzo[a]anthracene     | Benzo[b]fluoranthene | Benzo[k]fluoranthene | Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | Benzo[g,h,i]perylene | Total PAH |
|               | Units       |             | mg/L        | mg/L           | mg/L         | mg/L     | mg/L         | mg/L       | mg/L         | mg/L    | mg/L     | mg/L                   | mg/L                 | mg/L                 | mg/L           | mg/L                    | mg/L                  | mg/L                 | mg/L      |
| Sample Name   | Sample Date | Sample Type |             |                |              |          |              |            |              |         |          |                        |                      |                      |                |                         |                       |                      |           |
| QC07_06042020 | 06-Apr-20   | Rinsate     | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| QC19_06042020 | 06-Apr-20   | Rinsate     | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| QC14_07042020 | 07-Apr-20   | Rinsate     | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| QC29_09042020 | 09-Apr-20   | Rinsate     | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |

Notes: < - Less than laboratory limit of reporting mg/L - Milligrams per litre



# Table 3 Quality Control Sample Analysis - PAHs Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|               |             |             |             |                |              |          |              |            |              |         | Po       | olycyclic Aromatic Hydr | rocarbons            |                      |                |                         |                       |                      |           |
|---------------|-------------|-------------|-------------|----------------|--------------|----------|--------------|------------|--------------|---------|----------|-------------------------|----------------------|----------------------|----------------|-------------------------|-----------------------|----------------------|-----------|
|               | Analyte     |             | Naphthalene | Acenaphthylene | Acenaphthene | Fluorene | Phenanthrene | Anthracene | Fluoranthene | Pyrene  | Chrysene | Benzo[a]anthracene      | Benzo[b]fluoranthene | Benzo[k]fluoranthene | Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | Benzo[g,h,i]perylene | Total PAH |
|               | Units       |             | mg/L        | mg/L           | mg/L         | mg/L     | mg/L         | mg/L       | mg/L         | mg/L    | mg/L     | mg/L                    | mg/L                 | mg/L                 | mg/L           | mg/L                    | mg/L                  | mg/L                 | mg/L      |
| Sample Name   | Sample Date | Sample Type |             |                |              |          |              |            |              |         |          |                         |                      |                      |                |                         |                       |                      |           |
| QC05_16122021 | 16-Dec-21   | Rinsate     | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                 | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |

Notes: < - Less than laboratory limit of reporting mg/L - Milligrams per litre



#### Table 14 Surface Water Analytical Data - Inorganics Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|                    |                         |                |        |         |           |           |          |          | Anions and Catio | ons          |              |              |                     |                                 |          |                                    | Alk  | alinity                          |                              | Inorga                    | anics                        |
|--------------------|-------------------------|----------------|--------|---------|-----------|-----------|----------|----------|------------------|--------------|--------------|--------------|---------------------|---------------------------------|----------|------------------------------------|------|----------------------------------|------------------------------|---------------------------|------------------------------|
|                    | Analyte                 |                | Sodium | Calcium | Magnesium | Potassium | Sulphate | Chloride | Total Phosphorus | Nitrite as N | Nitrate as N | Ammonia as N | Total Nitrogen as N | Total Kjeldahl<br>Nitrogen as N | Nitrogen | Bicarbonate<br>Alkalinity as CaCO3 |      | Hydroxide Alkalinity<br>as CaCO3 | Total Alkalinity as<br>CaCO3 | Total Dissolved<br>Solids | Total<br>Suspended<br>Solids |
|                    | LOR                     |                | 0.5    | 0.5     | 0.5       | 0.5       | 5.0      | 1.0      | 0.01             | 0.02         | 0.02         | 0.01         | 0.05                | 0.2                             | 0.2      | 20                                 | 10   | 20                               | 20                           | 10                        | 1.0                          |
|                    | Units                   |                | mg/L   | mg/L    | mg/L      | mg/L      | mg/L     | mg/L     | mg/L             | mg/L         | mg/L         | mg/L         | mg/L                | mg/L                            | mg/L     | mg/L                               | mg/L | mg/L                             | mg/L                         | mg/L                      | mg/L                         |
| Water Dependent Ec | cosystems and species - | 95% Freshwater |        |         |           |           |          |          |                  |              |              | 0.9          |                     |                                 |          |                                    |      |                                  |                              |                           |                              |
| Drinking           | Water - Health (NHRMC   | 2016)          |        |         |           |           | 500      |          |                  |              |              |              |                     |                                 |          |                                    |      |                                  |                              |                           |                              |
| Stock              | k Watering (ANZECC 20   | 00)            |        |         |           |           | 1,000    |          |                  |              | 400          |              |                     |                                 |          |                                    |      |                                  |                              | 2,500                     |                              |
| Risks in Recre     | eational Water X10 (NH  | MRC 2008)      |        |         |           |           | 5,000    |          |                  |              |              |              |                     |                                 |          |                                    |      |                                  |                              |                           |                              |
| Sample Name        | Sample Date             | SWL (mBTOC)    |        |         |           |           |          |          |                  |              |              |              |                     |                                 |          |                                    |      |                                  |                              |                           |                              |
| DAM                | 09-Apr-20               | -              | 13     | 7.6     | 6.5       | 0.6       | < 5.0    | 17       | 0.02             | < 0.02       | < 0.02       | 0.08         | < 0.05              | 0.3                             | 0.3      | 81                                 | < 10 | < 20                             | 81                           | 230                       | -                            |
| SW01               | 09-Apr-20               | -              | 14     | 3.9     | 3.8       | 1.2       | < 5.0    | 20       | 0.01             | < 0.02       | < 0.02       | 0.01         | < 0.05              | 1.3                             | 1.3      | 51                                 | < 10 | < 20                             | 51                           | 200                       | 12                           |
| SW02               | 09-Apr-20               | -              | 14     | 4.0     | 3.8       | 1.2       | < 5.0    | 55       | 0.02             | < 0.02       | < 0.02       | < 0.01       | < 0.05              | 0.3                             | 0.3      | 54                                 | < 10 | < 20                             | 54                           | 150                       | 15                           |
| SW01_1             | 16-Dec-21               | -              | 12     | 3.8     | 4.6       | 1.0       | < 5.0    | 13       | 0.01             | < 0.02       | 0.23         | < 0.01       | 0.23                | 0.9                             | 1.13     | 50                                 | < 10 | -                                | -                            | 91                        | -                            |
| SW01_2             | 16-Dec-21               | -              | 12     | 3.8     | 4.7       | 1.0       | < 5.0    | 13       | 0.01             | < 0.02       | 0.23         | 0.02         | 0.23                | 0.4                             | 0.63     | 47                                 | < 10 | -                                | -                            | 150                       | -                            |
| SW02               | 16-Dec-21               | -              | 12     | 3.8     | 4.6       | 1.0       | < 5.0    | 13       | 0.01             | < 0.02       | 0.24         | 0.04         | 0.24                | < 0.2                           | 0.24     | 51                                 | < 10 | -                                | -                            | 120                       | -                            |
| SW03               | 16-Dec-21               | -              | 77     | 25      | 26        | 1.7       | < 5.0    | 46       | 0.13             | < 0.02       | < 0.02       | 0.1          | < 0.05              | 3.4                             | 3.4      | 320                                | 13   | -                                | -                            | 390                       | -                            |
| SW04               | 16-Dec-21               | -              | 150    | 54      | 78        | 2.6       | < 5.0    | 61       | 0.01             | < 0.02       | < 0.02       | 0.05         | < 0.05              | < 0.2                           | < 0.2    | 790                                | 55   | -                                | -                            | 850                       | -                            |
| SW05               | 16-Dec-21               | -              | 12     | 3.9     | 4.8       | 1.1       | < 5.0    | 13       | 0.03 *           | < 0.02       | 0.24         | 0.02         | 0.24                | 0.8 *                           | 1.04 *   | 51                                 | < 10 | -                                | -                            | 61                        | -                            |

Notes:

- - Not analysed

Less than laboratory limit of reporting
 LOR - Laboratory limit of reporting

mg/L - Milligrams per litre Bold indicates a detection above the laboratory limit of reporting

#### Criteria:

Water Quality Australia - Low Reliability Trigger Values (for toluene and ethylbenzene) for Freshwater (Water Quality Guidelines 2018). National Health and Medical Research Council (NHMRC) - National Water Quality Management Strategy: Australian Drinking Water Guidelines (2016). Australian and New Zealand Environment and Conservation Council (ANZECC) - Australian and New Zealand Guidelines for Freshwater and Stock Watering Quality, and Irrigation Trigger Value for long term use (LTV) (2000). National Health and Medical Research Council (NHMRC) - Guidelines for Managing Risks in Recreational Water (multiplication factor of 10 applied) (2008).



# Table 15 Surface Water Analytical Data - Metals Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

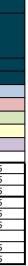
|                 |                             |              |         |          |          | Metals  |         |         |         |
|-----------------|-----------------------------|--------------|---------|----------|----------|---------|---------|---------|---------|
|                 | Analyte                     |              | Arsenic | Cadmium  | Chromium | Copper  | Lead    | Nickel  | Zinc    |
|                 | LOR                         |              | 0.001   | 0.0002   | 0.001    | 0.001   | 0.001   | 0.001   | 0.005   |
|                 | Units                       |              | mg/L    | mg/L     | mg/L     | mg/L    | mg/L    | mg/L    | mg/L    |
| Water Dependent | Ecosystems and species - 95 | % Freshwater | 0.024   | 0.0002   |          | 0.0014  | 0.0034  | 0.011   | 0.008   |
| Drinkin         | g Water - Health (NHRMC 20  | 16)          | 0.01    | 0.002    |          | 2.0     | 0.01    | 0.02    |         |
| Irri            | gation (LTV) (ANZECC 2000)  |              | 0.1     | 0.01     | 0.1      | 0.2     | 2.0     | 0.2     | 2.0     |
| Sto             | ock Watering (ANZECC 2000)  |              | 0.5     | 0.01     | 1.0      | 1.0     | 0.1     | 1.0     | 20      |
| Risks in Re     | creational Water X10 (NHMR  | C 2008)      | 0.1     | 0.02     |          | 20      | 0.1     | 0.2     |         |
| Sample Name     | Sample Date                 | SWL (mBTOC)  |         |          |          |         |         |         |         |
| DAM             | 09-Apr-20                   | -            | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| SW01            | 09-Apr-20                   | -            | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| SW02            | 09-Apr-20                   | -            | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| SW01_1          | 16-Dec-21                   | -            | < 0.001 | < 0.0002 | < 0.001  | 0.001   | < 0.001 | < 0.001 | < 0.005 |
| SW01_2          | 16-Dec-21                   | -            | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| SW02            | 16-Dec-21                   | -            | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| SW03            | 16-Dec-21                   | -            | 0.004   | < 0.0002 | 0.001    | 0.005   | 0.003   | 0.004   | 0.006   |
| SW04            | 16-Dec-21                   | -            | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | 0.002   | < 0.005 |
| SW05            | 16-Dec-21                   | -            | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |

#### Notes:

- Not analysed
 - Less than laboratory limit of reporting mg/L - Milligrams per litre

Criteria: Water Quality Australia - Low Reliability Trigger Values (for toluene and ethylbenzene) for Freshwater (Water Quality Guidelines 2018). National Health and Medical Research Council (NHMRC) - National Water Quality Management Strategy: Australian Drinking Water Guidelines (2016). Australian and New Zealand Environment and Conservation Council (ANZECC) - Australian and New Zealand Guidelines for Freshwater and Stock Watering Quality, and Irrigation Trigger Value for long term use (LTV) (2000 National Health and Medical Research Council (NHMRC) - Guidelines for Managing Risks in Recreational Water (multiplication factor of 10 applied) (2008).





# Table 16 Surface Water Analytical Data - PAHs Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|                     |                           |                |             |                |              |           |              |            |              |           | Ρ         | olycyclic Aromatic Hyd | lrocarbons           |                      |                |                         |                       |                      |           |
|---------------------|---------------------------|----------------|-------------|----------------|--------------|-----------|--------------|------------|--------------|-----------|-----------|------------------------|----------------------|----------------------|----------------|-------------------------|-----------------------|----------------------|-----------|
|                     | Analyte                   |                | Naphthalene | Acenaphthylene | Acenaphthene | Fluorene  | Phenanthrene | Anthracene | Fluoranthene | Pyrene    | Chrysene  | Benzo[a]anthracene     | Benzo[b]fluoranthene | Benzo[k]fluoranthene | Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | Benzo[g,h,i]perylene | Total PAH |
|                     | LOR                       |                | 0.00001     | 0.00001        | 0.00001      | 0.00001   | 0.00001      | 0.00001    | 0.00001      | 0.00001   | 0.00001   | 0.00001                | 0.001                | 0.00001              | 0.00001        | 0.00001                 | 0.00001               | 0.00001              | 0.00001   |
|                     | Units                     |                | mg/L        | mg/L           | mg/L         | mg/L      | mg/L         | mg/L       | mg/L         | mg/L      | mg/L      | mg/L                   | mg/L                 | mg/L                 | mg/L           | mg/L                    | mg/L                  | mg/L                 | mg/L      |
| Water Dependent Eco | cosystems and species - 9 | 95% Freshwater | 0.016       |                |              |           |              |            |              |           |           |                        |                      |                      |                |                         |                       |                      |           |
| Drinking V          | Water - Health (NHRMC     | 2016)          |             |                |              |           |              |            |              |           |           |                        |                      |                      |                |                         |                       |                      | 0.00001   |
| Stock               | Watering (ANZECC 200      | ))             |             |                |              |           |              |            |              |           |           |                        |                      |                      | 0.00001        |                         |                       |                      |           |
| Risks in Recre      | eational Water X10 (NHM   | IRC 2008)      |             |                |              |           |              |            |              |           |           |                        |                      |                      |                |                         |                       |                      | 0.0001    |
| Sample Name         | Sample Date               | SWL (mBTOC)    |             |                |              |           |              |            |              |           |           |                        |                      |                      |                |                         |                       |                      |           |
| SW01                | 09-Apr-20                 | -              | < 0.00001   | < 0.00001      | < 0.00001    | < 0.00001 | < 0.00001    | < 0.00001  | < 0.00001    | < 0.00001 | < 0.00001 | < 0.00001              | < 0.001              | < 0.00001            | < 0.00001      | < 0.00001               | < 0.00001             | < 0.00001            | < 0.00001 |
| SW02                | 09-Apr-20                 | -              | < 0.00001   | < 0.00001      | < 0.00001    | < 0.00001 | < 0.00001    | < 0.00001  | < 0.00001    | < 0.00001 | < 0.00001 | < 0.00001              | < 0.001              | < 0.00001            | < 0.00001      | < 0.00001               | < 0.00001             | < 0.00001            | < 0.00001 |
| SW01_1              | 16-Dec-21                 | -              | < 0.001     | < 0.001        | < 0.001      | < 0.001   | < 0.001      | < 0.001    | < 0.001      | < 0.001   | < 0.001   | < 0.001                | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| SW01_2              | 16-Dec-21                 | -              | < 0.001     | < 0.001        | < 0.001      | < 0.001   | < 0.001      | < 0.001    | < 0.001      | < 0.001   | < 0.001   | < 0.001                | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| SW02                | 16-Dec-21                 | -              | < 0.001     | < 0.001        | < 0.001      | < 0.001   | < 0.001      | < 0.001    | < 0.001      | < 0.001   | < 0.001   | < 0.001                | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| SW03                | 16-Dec-21                 | -              | < 0.001     | < 0.001        | < 0.001      | < 0.001   | < 0.001      | < 0.001    | < 0.001      | < 0.001   | < 0.001   | < 0.001                | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| SW04                | 16-Dec-21                 | -              | < 0.001     | < 0.001        | < 0.001      | < 0.001   | < 0.001      | < 0.001    | < 0.001      | < 0.001   | < 0.001   | < 0.001                | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| SW05                | 16-Dec-21                 | -              | < 0.001     | < 0.001        | < 0.001      | < 0.001   | < 0.001      | < 0.001    | < 0.001      | < 0.001   | < 0.001   | < 0.001                | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |

#### Notes:

- - Not analysed

- Less than laboratory limit of reporting mg/L - Milligrams per litre

#### Criteria:

Criteria: Water Quality Australia - Low Reliability Trigger Values (for toluene and ethylbenzene) for Freshwater (Water Quality Guidelines 2018). National Health and Medical Research Council (NHMRC) - National Water Quality Management Strategy: Australian Drinking Water Guidelines (2016). Australian and New Zealand Environment and Conservation Council (ANZECC) - Australian and New Zealand Guidelines for Freshwater and Stock Watering Quality, and Irrigation Trigger Value for long term use (LTV) (2000). National Health and Medical Research Council (NHMRC) - Guidelines for Managing Risks in Recreational Water (multiplication factor of 10 applied) (2008).



## Table 17 Quality Control Sample Analysis - BTEXN, TRH Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|               |             |             |         |         |              | BTEXN                   |              |               |             | Total Petroleum<br>Hydrocarbons | Total Rec                        | coverable Hydrocarbons                           |
|---------------|-------------|-------------|---------|---------|--------------|-------------------------|--------------|---------------|-------------|---------------------------------|----------------------------------|--|
|               |             |             | Benzene | Toluene | Ethylbenzene | meta- & para-<br>Xylene | ortho-Xylene | Total Xylenes | Naphthalene | C <sub>6</sub> - C <sub>9</sub> | C <sub>6</sub> - C <sub>10</sub> | C <sub>6</sub> - C <sub>10</sub> minus BTEX (F1) |
|               | Units       |             | mg/L    | mg/L    | mg/L         | mg/L                    | mg/L         | mg/L          | mg/L        | mg/L                            | mg/L                             | mg/L   |
| Sample Name   | Sample Date | Sample Type |         |         |              |                         |              |               |             |                                 |                                  |  |
| QC30_09042020 | 09-Apr-20   | Trip Blank  | < 0.001 | < 0.001 | < 0.001      | < 0.002                 | < 0.001      | < 0.003       | < 0.01      | < 0.02                          | < 0.02                           | < 0.02   |

#### Notes:

- - Not analysed

< - Less than laboratory limit of reporting

NC - Not calculated

mg/L - Milligrams per litre

BTEXN - Benzene, toluene, ethylbenzene, total xylenes, naphthalene



# Table 18 Quality Control Sample Analysis - Inorganics Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|               | Analyte            |             |        |         |           |           |          |          | Anions and Cati | ions         |              |              |                     |                                 |          | Alkali                             | nity                             | Inorganics                |
|---------------|--------------------|-------------|--------|---------|-----------|-----------|----------|----------|-----------------|--------------|--------------|--------------|---------------------|---------------------------------|----------|------------------------------------|----------------------------------|---------------------------|
|               |                    |             | Sodium | Calcium | Magnesium | Potassium | Sulphate | Chloride | Phosphorus      | Nitrite as N | Nitrate as N | Ammonia as N | Total Nitrogen as N | Total Kjeldahl<br>Nitrogen as N | Nitrogen | Bicarbonate Alkalinity<br>as CaCO3 | Carbonate Alkalinity<br>as CaCO3 | Total Dissolved<br>Solids |
|               | Units              |             | mg/L   | mg/L    | mg/L      | mg/L      | mg/L     | mg/L     | mg/L            | mg/L         | mg/L         | mg/L         | mg/L                | mg/L                            | mg/L     | mg/L                               | mg/L                             | mg/L                      |
| Sample Name   | Sample Date        | Sample Type |        |         |           |           |          |          |                 |              |              |              |                     |                                 |          |                                    |                                  |                           |
| SW05_16122021 | 16-Dec-21          | Primary     | 12     | 3.9     | 4.8       | 1.1       | < 5.0    | 13       | 0.01            | < 0.02       | 0.24         | 0.02         | 0.24                | < 0.2                           | 0.24     | 51                                 | < 10                             | 61                        |
| QC01_16122021 | 16-Dec-21          | Duplicate   | 13     | 3.9     | 4.9       | 1.0       | < 5.0    | 13       | 0.03            | < 0.02       | 0.23         | 0.03         | 0.24                | 0.8                             | 1.04     | 52                                 | < 10                             | 37                        |
| Relative      | e Percentage Diffe | rence       | 8%     | 0%      | 2%        | 10%       | NC       | 0%       | 100%            | NC           | 4%           | 40%          | 0%                  | 120%                            | 125%     | 2%                                 | NC                               | 49%                       |

**Notes:** < - Less than laboratory limit of reporting LOR - Laboratory limit of reporting NC - Not calculated mg/L - Milligrams per litre RPD - Relative Percentage Difference



# Table 19 Quality Control Sample Analysis - Metals Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|                 | Analyte              |             |         |          |          | Metals  |         |         |         |
|-----------------|----------------------|-------------|---------|----------|----------|---------|---------|---------|---------|
|                 |                      |             | Arsenic | Cadmium  | Chromium | Copper  | Lead    | Nickel  | Zinc    |
|                 | Units                |             | mg/L    | mg/L     | mg/L     | mg/L    | mg/L    | mg/L    | mg/L    |
| Sample Name     | Sample Date          | Sample Type |         |          |          |         |         |         |         |
| SW05_16122021   | 16-Dec-21            | Primary     | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| QC01_16122021   | 16-Dec-21            | Duplicate   | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| Relative        | Percentage Differe   | ence        | NC      | NC       | NC       | NC      | NC      | NC      | NC      |
| SW05_16122021   | 16-Dec-21            | Primary     | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| QC02_16122021   | 16-Dec-21            | Triplicate  | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| Relative        | Percentage Different | ence        | NC      | NC       | NC       | NC      | NC      | NC      | NC      |
| SW05_16122021   | 16-Dec-21            | Primary     | < 0.001 | < 0.0002 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| QC02_16122021_2 | 16-Dec-21            | Triplicate  | < 0.001 | < 0.0001 | < 0.001  | < 0.001 | < 0.001 | < 0.001 | < 0.005 |
| Relative        | Percentage Different | ence        | NC      | NC       | NC       | NC      | NC      | NC      | NC      |

Notes:

< - Less than laboratory limit of reporting NC - Not calculated

mg/L - Milligrams per litre



# Table 20 Quality Control Sample Analysis - PAHs Glenlyon Recreation Reserve Suttons Lane Glenlyon, Victoria

|                  | Analyte            |             |             |                |              |          |              |            |              |         | Ρ        | olycyclic Aromatic Hydr | rocarbons            |                      |                |                         |                       |                      |           |
|------------------|--------------------|-------------|-------------|----------------|--------------|----------|--------------|------------|--------------|---------|----------|-------------------------|----------------------|----------------------|----------------|-------------------------|-----------------------|----------------------|-----------|
|                  |                    |             | Naphthalene | Acenaphthylene | Acenaphthene | Fluorene | Phenanthrene | Anthracene | Fluoranthene | Pyrene  | Chrysene | Benzo[a]anthracene      | Benzo[b]fluoranthene | Benzo[k]fluoranthene | Benzo[a]pyrene | Indeno[1,2,3-c,d]pyrene | Dibenz[a,h]anthracene | Benzo[g,h,i]perylene | Total PAH |
|                  | Units              |             | mg/L        | mg/L           | mg/L         | mg/L     | mg/L         | mg/L       | mg/L         | mg/L    | mg/L     | mg/L                    | mg/L                 | mg/L                 | mg/L           | mg/L                    | mg/L                  | mg/L                 | mg/L      |
| Sample Name      | Sample Date        | Sample Type |             |                |              |          |              |            |              |         |          |                         |                      |                      |                |                         |                       |                      |           |
| RINSATE_16122021 | 16-Dec-21          | Rinsate     | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                 | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| SW05_16122021    | 16-Dec-21          | Primary     | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                 | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| QC01_16122021    | 16-Dec-21          | Duplicate   | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                 | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| Relative P       | Percentage Differe | nce         | NC          | NC             | NC           | NC       | NC           | NC         | NC           | NC      | NC       | NC                      | NC                   | NC                   | NC             | NC                      | NC                    | NC                   | NC        |
| SW05_16122021    | 16-Dec-21          | Primary     | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                 | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| QC02_16122021    | 16-Dec-21          | Triplicate  | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                 | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| Relative P       | Percentage Differe | nce         | NC          | NC             | NC           | NC       | NC           | NC         | NC           | NC      | NC       | NC                      | NC                   | NC                   | NC             | NC                      | NC                    | NC                   | NC        |
| SW05_16122021    | 16-Dec-21          | Primary     | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                 | < 0.001              | < 0.001              | < 0.001        | < 0.001                 | < 0.001               | < 0.001              | < 0.001   |
| QC02_16122021_2  | 16-Dec-21          | Triplicate  | < 0.001     | < 0.001        | < 0.001      | < 0.001  | < 0.001      | < 0.001    | < 0.001      | < 0.001 | < 0.001  | < 0.001                 | -                    | < 0.001              | < 0.0005       | < 0.001                 | < 0.001               | < 0.001              | < 0.0005  |
| Relative P       | Percentage Differe | nce         | NC          | NC             | NC           | NC       | NC           | NC         | NC           | NC      | NC       | NC                      | NC                   | NC                   | NC             | NC                      | NC                    | NC                   | NC        |

Notes: - - Not analysed < - Less than laboratory limit of reporting NC - Not calculated μg/L - Micrograms per litre mg/L - Milligrams per litre

20204153.001A/Glenlyon/MLB20R110335



# APPENDIX A: FIELD LOGS



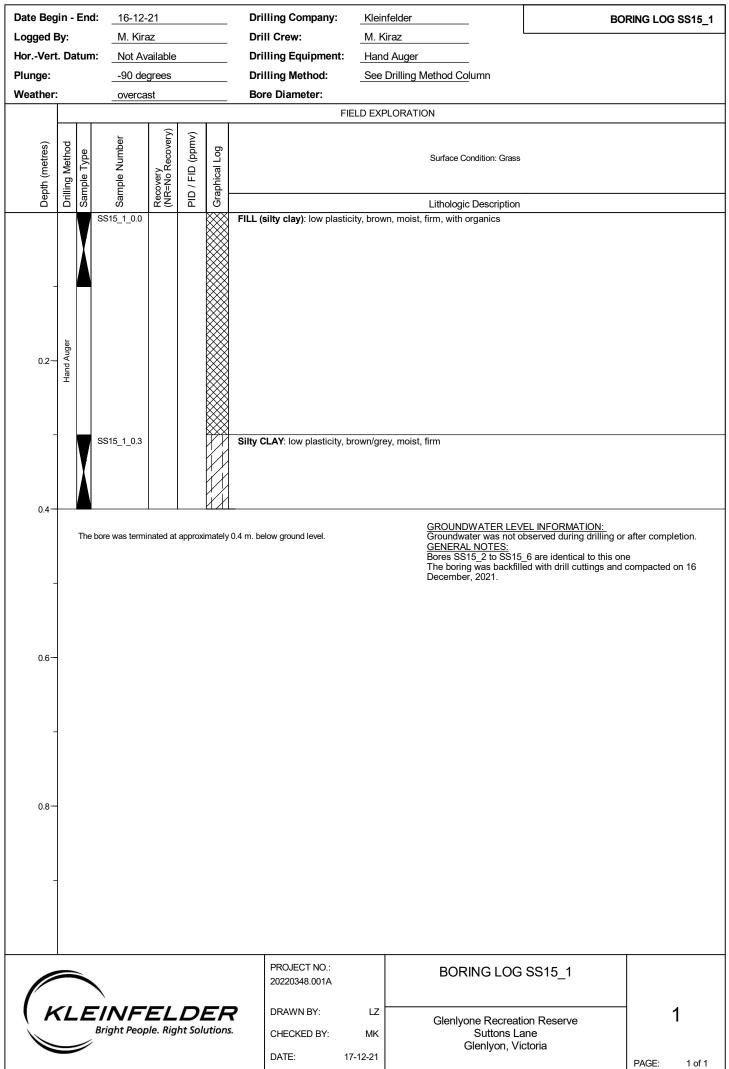
| nber:        |                     | Site Name:<br><u> </u>   | are Wo<br>Recrution     | 1 0                       | Site Address: | Rec R            | esense         |                   | Sample Bottles Collected:<br>PHHH LX Orange, LX Green, LX Metal /<br>QA/QC Samples Collected: |
|--------------|---------------------|--------------------------|-------------------------|---------------------------|---------------|------------------|----------------|-------------------|---|
| - /          | 6-12.21             |                          |                         |                           | Overas        | t                |                |                   |   |
| er (mm): Pre | Purging Depth To Wa | ater (mBTOC):            | Post Purging Depth to V | Vater (mBTOC):            | Surfa         | ce Wat           |                |                   |   |
|              | TD (m) - DTV        | _) x 5 = L<br>V (m) 1 BV | Minimum volu            | ime to be purged (3xBV)*: | L             |                  |                |                   |   |
|              |                     |                          |                         | DO                        | Fi            | eld Measurements |                | Redox             |   |
| me           | DTW<br>(mBTOC)      | Volume Purged<br>(L)     | Temp<br>(°C)            | (mg/L)                    | (us/cm)       | (mg/L)           | рН<br>+/- 0.05 | (mV)<br>+/- 10 mV | Description Odour, sediment load, colour, sheen.  |
| Criteria (1) | SW03                |                          | 22.3                    | +/- 10%                   | +/- 3%        | +1-3%            | 4.94           | 75-5              | Brown, with Algae NIS   |
|              | SWOLI               | ~                        | 14.6                    | 7.48                      | 102.7         | 83.2             | 4.81           | 44.1              | Clerr, NIS, N/O   |
|              | SWOL 2              |                          | 14.7                    | 7.15                      | 103.9         | 33.8             | 4.89           | 32,3              | den NIS NIO   |
|              | SW02                | _                        | 14.9.                   | 8.14                      | 107.4         | 86.45            | 4.62           | 17.2              | Brown, NIO, N/S,  |
|              | SNOS                | -                        | 21.9                    | 4.36                      | 1266          | 864.1            | 4.89           | 50.7              | Brown, WIO, NIS   |
|              | SWOY                |                          | Dry                     |                           |               |                  |                |                   | Dry   |
|              | SW06                |                          | 14.9                    | 7.45                      | 104.0         | 33.85            | 4.81           | 24.5              | Clear, NO, NIS (20100   |
|              |                     |                          |                         |                           |               |                  |                |                   |   |
|              |                     |                          |                         |                           |               |                  |                |                   |   |
|              |                     |                          |                         |                           |               |                  |                |                   |   |
|              |                     |                          |                         |                           |               |                  |                |                   |   |
|              |                     |                          |                         |                           |               |                  |                |                   |   |
|              |                     |                          |                         |                           |               |                  |                |                   |   |

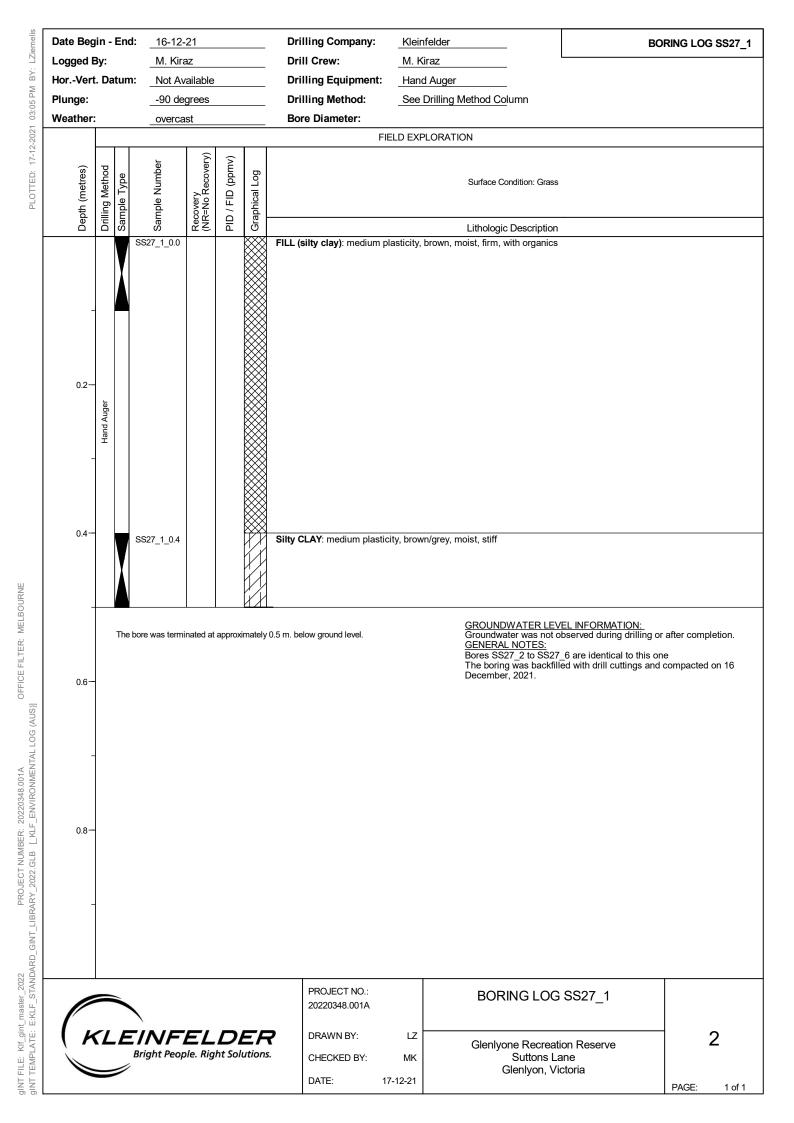
Minimum volume to be purged except where wells are dry.

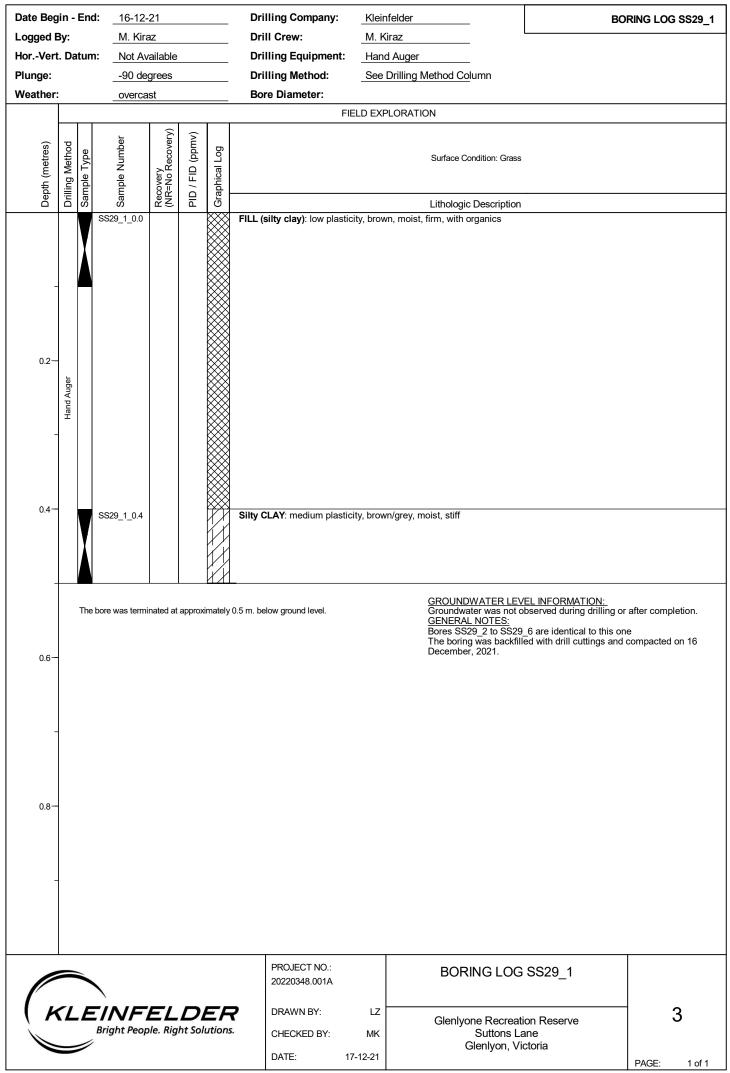
(1) These parameters may be considered stable when three consecutive readings (obtained several minutes apart) are within these levels. Source "Victorian Environmental Protection Authority, Groundwater Sampling Guidelines, Publication 669, April 2000".

SWOILOR Down strom > Flowing West at point of Collection Page

of







# PLOTTED: 17-12-2021 03:05 PM BY: LZien

gINT FILE: KIF\_gint\_master\_2022 PROJECT NUMBER: 20220348.001A OFFICE FILTER: MELBOURNE gINT TEMPLATE: E-KLF\_STANDARD\_GINT\_LIBRARY\_2022.GLB [\_KLF\_ENVIRONMENTAL LOG (AUS)]

| Date E         | Begi     | n - I           | End:        | 16-12-        | -21                          |                  |               | Drilling Company:              | Kleinfelder    |                                 |  | BORING LOG SW03 |
|----------------|----------|-----------------|-------------|---------------|------------------------------|------------------|---------------|--------------------------------|----------------|---------------------------------|--|-----------------|
| Logge          | d B      | y:              |             | M. Kira       | az                           |                  |               | Drill Crew:                    | M. Kiraz       |                                 | L  |                 |
| HorV           | 'ert.    | Dat             | tum:        | Not Av        | ailable                      |                  |               | Drilling Equipment:            | Hand Auger     |                                 |  |                 |
| Plunge         | e:       |                 |             | -90 de        | grees                        |                  |               | Drilling Method:               | See Drilling M | ethod Column                    |  |                 |
| Weath          | er:      |                 |             | overca        | ist                          |                  |               | Bore Diameter:                 |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               | FIE                            | LD EXPLORATIO  | N                               |  |                 |
| (              | ()<br>() | q               |             | Der           | Recovery<br>(NR=No Recovery) | (vm              | _             |                                |                |                                 |  |                 |
| otroc          | elle     | letho           | ype         | Iumt          | Reco                         | ldd) i           | I Loĉ         |                                |                |                                 |  |                 |
| <u>.</u>       |          | ۶               | ole T       | ole N         | very<br>No F                 | ΓD               | hica          |                                |                |                                 |  |                 |
| Denth (metree) | Idar     | Drilling Method | Sample Type | Sample Number | Reco<br>NR=                  | PID / FID (ppmv) | Graphical Log |                                |                | Lithologic Description          |  |                 |
|                | -        | _               |             | SW03_0.0      |                              | -                |               | FILL (silty clay): fine-graine |                |                                 |  |                 |
|                |          | uger            | V           |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          | Hand Auger      | Å           |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          | Ť               |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 | The bo      | ore was termi | inated at                    | approxi          | imately       | 0.1 m. below ground level.     |                | GENERAL NOTES:                  | /EL INFORMATION:<br>observed during drilling o |                 |
| 0.             | .2       |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
| 0              | .4-      |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
| 0.             | .4       |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                | _        |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
| 0.             | .6-      |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                | -        |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
| 0.             | .8       |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                | 1        |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  |                 |
|                |          |                 |             |               |                              |                  |               |                                |                |                                 |  | 1               |
|                |          |                 |             |               |                              |                  |               | PROJECT NO .:                  |                | BORING LOO                      | G SW03   |                 |
|                |          |                 |             |               |                              |                  |               | 20220348.001A                  |                |                                 |  |                 |
|                | K        | 7               | F           | NF            | F/                           |                  |               | DRAWN BY:                      | LZ             |                                 |  | 4               |
| Ú.             | N        | -               |             | right Peop    | ole. Ria                     | ht Sol           | utions        | CHECKED BY:                    | MK             | Glenlyone Recreat<br>Suttons La |  | 4               |
|                |          | _               | /           | 5             |                              |                  |               |                                |                | Glenlyon, Vi                    |  |                 |
|                |          |                 |             |               |                              |                  |               | DATE: 17                       | -12-21         |                                 |  | PAGE: 1 of 1    |

# APPENDIX B: LABORATORY REPORTS







# **CERTIFICATE OF ANALYSIS**

| Work Order              | EM2200148                           | Page                    | : 1 of 4                    |                                |
|-------------------------|-------------------------------------|-------------------------|-----------------------------|--------------------------------|
| Client                  | KLEINFELDER AUSTRALIA PTY LTD       | Laboratory              | Environmental Division Me   | elbourne                       |
| Contact                 | : JEREMY MCDONNELL                  | Contact                 | : Gregory Gommers           |                                |
| Address                 | : LEVEL 1, 95 COVENTRY STREET       | Address                 | : 4 Westall Rd Springvale V | IC Australia 3171              |
|                         | SOUTH MELBOURNE VIC, AUSTRALIA 3205 |                         |                             |                                |
| Telephone               | :                                   | Telephone               | : +61-3-8549 9600           |                                |
| Project                 | : 20223763.001A                     | Date Samples Received   | : 11-Jan-2022 09:50         |                                |
| Order number            | :                                   | Date Analysis Commenced | : 11-Jan-2022               |                                |
| C-O-C number            | :                                   | Issue Date              | : 13-Jan-2022 15:34         |                                |
| Sampler                 | : MK                                |                         |                             | HAC-MRA NATA                   |
| Site                    | : Glenlyon EMP                      |                         |                             |                                |
| Quote number            | : EN/222                            |                         |                             | Accreditation No. 825          |
| No. of samples received | : 1                                 |                         |                             | Accredited for compliance with |
| No. of samples analysed | : 1                                 |                         |                             | ISO/IEC 17025 - Testing        |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

# Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| Signatories | Position            | Accreditation Category                |
|-------------|---------------------|---------------------------------------|
| Eric Chau   | Metals Team Leader  | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang  | 2IC Organic Chemist | Melbourne Organics, Springvale, VIC   |



# **General Comments**

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.

# Page : 3 of 4 Work Order : EM2200148 Client : KLEINFELDER AUSTRALIA PTY LTD Project : 20223763.001A



# Analytical Results

| Sub-Matrix: WATER<br>(Matrix: WATER)   |                   |        | Sample ID      | QC02              | <br> | <br> |
|--|-------------------|--------|----------------|-------------------|------|------|
|  |                   | Sampli | ng date / time | 16-Dec-2021 00:00 | <br> | <br> |
| Compound                               | CAS Number        | LOR    | Unit           | EM2200148-001     | <br> | <br> |
| Compound                               | on to reambor     |        |                | Result            | <br> | <br> |
| EG020F: Dissolved Metals by ICP-M      | MS                |        |                |                   |      |      |
| Arsenic                                | 7440-38-2         | 0.001  | mg/L           | <0.001            | <br> | <br> |
| Cadmium                                | 7440-43-9         | 0.0001 | mg/L           | <0.0001           | <br> | <br> |
| Chromium                               | 7440-47-3         | 0.001  | mg/L           | <0.001            | <br> | <br> |
| Copper                                 | 7440-50-8         | 0.001  | mg/L           | <0.001            | <br> | <br> |
| Nickel                                 | 7440-02-0         | 0.001  | mg/L           | <0.001            | <br> | <br> |
| Lead                                   | 7439-92-1         | 0.001  | mg/L           | <0.001            | <br> | <br> |
| Zinc                                   | 7440-66-6         | 0.005  | mg/L           | <0.005            | <br> | <br> |
| EP075(SIM)B: Polynuclear Aromati       | c Hydrocarbons    |        |                |                   |      |      |
| Naphthalene                            | 91-20-3           | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Acenaphthylene                         | 208-96-8          | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Acenaphthene                           | 83-32-9           | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Fluorene                               | 86-73-7           | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Phenanthrene                           | 85-01-8           | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Anthracene                             | 120-12-7          | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Fluoranthene                           | 206-44-0          | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Pyrene                                 | 129-00-0          | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Benz(a)anthracene                      | 56-55-3           | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Chrysene                               | 218-01-9          | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Benzo(b+j)fluoranthene                 | 205-99-2 205-82-3 | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Benzo(k)fluoranthene                   | 207-08-9          | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Benzo(a)pyrene                         | 50-32-8           | 0.5    | µg/L           | <0.5              | <br> | <br> |
| Indeno(1.2.3.cd)pyrene                 | 193-39-5          | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Dibenz(a.h)anthracene                  | 53-70-3           | 1.0    | µg/L           | <1.0              | <br> | <br> |
| Benzo(g.h.i)perylene                   | 191-24-2          | 1.0    | µg/L           | <1.0              | <br> | <br> |
| ^ Sum of polycyclic aromatic hydrocarl | bons              | 0.5    | µg/L           | <0.5              | <br> | <br> |
| ^ Benzo(a)pyrene TEQ (zero)            |                   | 0.5    | µg/L           | <0.5              | <br> | <br> |
| EP075(SIM)S: Phenolic Compound         | Surrogates        |        |                |                   |      |      |
| Phenol-d6                              | 13127-88-3        | 1.0    | %              | 23.6              | <br> | <br> |
| 2-Chlorophenol-D4                      | 93951-73-6        | 1.0    | %              | 54.9              | <br> | <br> |
| 2.4.6-Tribromophenol                   | 118-79-6          | 1.0    | %              | 86.5              | <br> | <br> |
| EP075(SIM)T: PAH Surrogates            |                   |        |                |                   |      |      |
| 2-Fluorobiphenyl                       | 321-60-8          | 1.0    | %              | 68.1              | <br> | <br> |
| Anthracene-d10                         | 1719-06-8         | 1.0    | %              | 82.3              | <br> | <br> |
| 4-Terphenyl-d14                        | 1718-51-0         | 1.0    | %              | 87.5              | <br> | <br> |



# Surrogate Control Limits

| Sub-Matrix: WATER                         |            | Recovery | Limits (%) |
|---|------------|----------|------------|
| Compound                                  | CAS Number | Low      | High       |
| EP075(SIM)S: Phenolic Compound Surrogates |            |          |            |
| Phenol-d6                                 | 13127-88-3 | 10       | 51         |
| 2-Chlorophenol-D4                         | 93951-73-6 | 30       | 114        |
| 2.4.6-Tribromophenol                      | 118-79-6   | 26       | 133        |
| EP075(SIM)T: PAH Surrogates               |            |          |            |
| 2-Fluorobiphenyl                          | 321-60-8   | 35       | 127        |
| Anthracene-d10                            | 1719-06-8  | 44       | 122        |
| 4-Terphenyl-d14                           | 1718-51-0  | 44       | 124        |



# QUALITY CONTROL REPORT

| Work Order              | : EM2200148  | Page                    | : 1 of 4                    |                                |
|-------------------------|--|-------------------------|-----------------------------|--------------------------------|
| Client                  | : KLEINFELDER AUSTRALIA PTY LTD                                      | Laboratory              | : Environmental Division M  | lelbourne                      |
| Contact                 | : JEREMY MCDONNELL   | Contact                 | : Gregory Gommers           |                                |
| Address                 | : LEVEL 1, 95 COVENTRY STREET<br>SOUTH MELBOURNE VIC, AUSTRALIA 3205 | Address                 | : 4 Westall Rd Springvale \ | VIC Australia 3171             |
| Telephone               | :  | Telephone               | : +61-3-8549 9600           |                                |
| Project                 | : 20223763.001A  | Date Samples Received   | : 11-Jan-2022               |                                |
| Order number            | :  | Date Analysis Commenced | : 11-Jan-2022               |                                |
| C-O-C number            | :  | Issue Date              | : 13-Jan-2022               |                                |
| Sampler                 | : MK   |                         |                             | Hac-MRA NATA                   |
| Site                    | : Glenlyon EMP   |                         |                             |                                |
| Quote number            | : EN/222   |                         |                             | Accreditation No. 825          |
| No. of samples received | : 1  |                         |                             | Accredited for compliance with |
| No. of samples analysed | : 1  |                         |                             | ISO/IEC 17025 - Testing        |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

## Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| Signatories | Position            | Accreditation Category                |
|-------------|---------------------|---------------------------------------|
| Eric Chau   | Metals Team Leader  | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang  | 2IC Organic Chemist | Melbourne Organics, Springvale, VIC   |



## **General Comments**

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

# = Indicates failed QC

# Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

| Sub-Matrix: WATER    |                     |                    |            |        |      | Laboratory L    | Duplicate (DUP) Report |         |                    |
|----------------------|---------------------|--------------------|------------|--------|------|-----------------|------------------------|---------|--------------------|
| Laboratory sample ID | Sample ID           | Method: Compound   | CAS Number | LOR    | Unit | Original Result | Duplicate Result       | RPD (%) | Acceptable RPD (%) |
| EG020F: Dissolved    | Metals by ICP-MS (C | QC Lot: 4114200)   |            |        |      |                 |                        |         |                    |
| EM2200148-001        | QC02                | EG020A-F: Cadmium  | 7440-43-9  | 0.0001 | mg/L | <0.0001         | <0.0001                | 0.0     | No Limit           |
|                      |                     | EG020A-F: Arsenic  | 7440-38-2  | 0.001  | mg/L | <0.001          | <0.001                 | 0.0     | No Limit           |
|                      |                     | EG020A-F: Chromium | 7440-47-3  | 0.001  | mg/L | <0.001          | <0.001                 | 0.0     | No Limit           |
|                      |                     | EG020A-F: Copper   | 7440-50-8  | 0.001  | mg/L | <0.001          | <0.001                 | 0.0     | No Limit           |
|                      |                     | EG020A-F: Lead     | 7439-92-1  | 0.001  | mg/L | <0.001          | <0.001                 | 0.0     | No Limit           |
|                      |                     | EG020A-F: Nickel   | 7440-02-0  | 0.001  | mg/L | <0.001          | <0.001                 | 0.0     | No Limit           |
|                      |                     | EG020A-F: Zinc     | 7440-66-6  | 0.005  | mg/L | <0.005          | <0.005                 | 0.0     | No Limit           |
| EM2200132-011        | Anonymous           | EG020A-F: Cadmium  | 7440-43-9  | 0.0001 | mg/L | <0.0001         | <0.0001                | 0.0     | No Limit           |
|                      |                     | EG020A-F: Arsenic  | 7440-38-2  | 0.001  | mg/L | <0.001          | <0.001                 | 0.0     | No Limit           |
|                      |                     | EG020A-F: Chromium | 7440-47-3  | 0.001  | mg/L | <0.001          | <0.001                 | 0.0     | No Limit           |
|                      |                     | EG020A-F: Copper   | 7440-50-8  | 0.001  | mg/L | 0.002           | 0.002                  | 0.0     | No Limit           |
|                      |                     | EG020A-F: Lead     | 7439-92-1  | 0.001  | mg/L | <0.001          | <0.001                 | 0.0     | No Limit           |
|                      |                     | EG020A-F: Nickel   | 7440-02-0  | 0.001  | mg/L | 0.002           | 0.003                  | 0.0     | No Limit           |
|                      |                     | EG020A-F: Zinc     | 7440-66-6  | 0.005  | mg/L | 0.026           | 0.028                  | 6.6     | No Limit           |



# Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

| Sub-Matrix: WATER                                    |              |        |      | Method Blank (MB) |               | Laboratory Control Spike (LCS | S) Report  |            |
|--|--------------|--------|------|-------------------|---------------|-------------------------------|------------|------------|
|  |              |        |      | Report            | Spike         | Spike Recovery (%)            | Acceptable | Limits (%) |
| Method: Compound                                     | CAS Number   | LOR    | Unit | Result            | Concentration | LCS                           | Low        | High       |
| EG020F: Dissolved Metals by ICP-MS (QCLot: 4114200)  |              |        |      |                   |               |                               |            |            |
| EG020A-F: Arsenic                                    | 7440-38-2    | 0.001  | mg/L | <0.001            | 0.1 mg/L      | 102                           | 89.0       | 111        |
| EG020A-F: Cadmium                                    | 7440-43-9    | 0.0001 | mg/L | <0.0001           | 0.1 mg/L      | 104                           | 83.5       | 111        |
| EG020A-F: Chromium                                   | 7440-47-3    | 0.001  | mg/L | <0.001            | 0.1 mg/L      | 99.7                          | 83.2       | 109        |
| EG020A-F: Copper                                     | 7440-50-8    | 0.001  | mg/L | <0.001            | 0.1 mg/L      | 100                           | 83.1       | 107        |
| EG020A-F: Lead                                       | 7439-92-1    | 0.001  | mg/L | <0.001            | 0.1 mg/L      | 98.3                          | 84.6       | 108        |
| EG020A-F: Nickel                                     | 7440-02-0    | 0.001  | mg/L | <0.001            | 0.1 mg/L      | 100                           | 84.3       | 110        |
| EG020A-F: Zinc                                       | 7440-66-6    | 0.005  | mg/L | <0.005            | 0.1 mg/L      | 108                           | 86.3       | 112        |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLc | ot: 4114170) |        |      |                   |               |                               |            |            |
| EP075(SIM): Naphthalene                              | 91-20-3      | 1      | µg/L | <1.0              | 5 µg/L        | 69.0                          | 42.8       | 114        |
| EP075(SIM): Acenaphthylene                           | 208-96-8     | 1      | µg/L | <1.0              | 5 µg/L        | 76.5                          | 48.6       | 119        |
| EP075(SIM): Acenaphthene                             | 83-32-9      | 1      | µg/L | <1.0              | 5 µg/L        | 74.1                          | 47.0       | 117        |
| EP075(SIM): Fluorene                                 | 86-73-7      | 1      | µg/L | <1.0              | 5 µg/L        | 76.7                          | 49.5       | 119        |
| EP075(SIM): Phenanthrene                             | 85-01-8      | 1      | µg/L | <1.0              | 5 µg/L        | 80.1                          | 49.4       | 121        |
| EP075(SIM): Anthracene                               | 120-12-7     | 1      | µg/L | <1.0              | 5 µg/L        | 78.7                          | 48.4       | 122        |
| EP075(SIM): Fluoranthene                             | 206-44-0     | 1      | µg/L | <1.0              | 5 µg/L        | 84.9                          | 50.3       | 124        |
| EP075(SIM): Pyrene                                   | 129-00-0     | 1      | µg/L | <1.0              | 5 µg/L        | 84.9                          | 50.0       | 126        |
| EP075(SIM): Benz(a)anthracene                        | 56-55-3      | 1      | µg/L | <1.0              | 5 µg/L        | 85.9                          | 49.4       | 127        |
| EP075(SIM): Chrysene                                 | 218-01-9     | 1      | µg/L | <1.0              | 5 µg/L        | 81.6                          | 48.7       | 126        |
| EP075(SIM): Benzo(b+j)fluoranthene                   | 205-99-2     | 1      | µg/L | <1.0              | 5 µg/L        | 78.9                          | 54.5       | 134        |
|  | 205-82-3     |        |      |                   |               |                               |            |            |
| EP075(SIM): Benzo(k)fluoranthene                     | 207-08-9     | 1      | µg/L | <1.0              | 5 µg/L        | 84.5                          | 56.1       | 134        |
| EP075(SIM): Benzo(a)pyrene                           | 50-32-8      | 0.5    | µg/L | <0.5              | 5 µg/L        | 84.3                          | 55.6       | 135        |
| EP075(SIM): Indeno(1.2.3.cd)pyrene                   | 193-39-5     | 1      | µg/L | <1.0              | 5 µg/L        | 84.2                          | 54.4       | 126        |
| EP075(SIM): Dibenz(a.h)anthracene                    | 53-70-3      | 1      | µg/L | <1.0              | 5 µg/L        | 83.6                          | 54.5       | 126        |
| EP075(SIM): Benzo(g.h.i)perylene                     | 191-24-2     | 1      | µg/L | <1.0              | 5 µg/L        | 83.9                          | 54.4       | 126        |

# Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

| Sub-Matrix: WATER    |                                   |                  |            | Ma  | Matrix Spike (MS) Report |     |      |  |
|----------------------|-----------------------------------|------------------|------------|---|--------------------------|-----|------|--|
|                      |                                   |                  |            | Spike SpikeRecovery(%) Acceptable Limits (% |                          |     |      |  |
| Laboratory sample ID | Sample ID                         | Method: Compound | CAS Number | Concentration                               | MS                       | Low | High |  |
| EG020F: Dissolved    | Metals by ICP-MS (QCLot: 4114200) |                  |            |   |                          |     |      |  |

| Page       | : 4 of 4                        |
|------------|---------------------------------|
| Work Order | : EM2200148                     |
| Client     | : KLEINFELDER AUSTRALIA PTY LTD |
| Project    | : 20223763.001A                 |



| ub-Matrix: WATER        |   |                    |               | Ma        | atrix Spike (MS) Report |            |            |
|-------------------------|---|--------------------|---------------|-----------|-------------------------|------------|------------|
|                         |   |                    |               | Spike     | SpikeRecovery(%)        | Acceptable | Limits (%) |
| aboratory sample ID     | Sample ID                                     | Method: Compound   | Concentration | MS        | Low                     | High       |            |
| EG020F: Dissolved       | Metals by ICP-MS (QCLot: 4114200) - continued |                    |               |           |                         |            |            |
| EM2200132-011 Anonymous | EG020A-F: Arsenic                             | 7440-38-2          | 0.2 mg/L      | 99.1      | 76.6                    | 124        |            |
|                         |   | EG020A-F: Cadmium  | 7440-43-9     | 0.05 mg/L | 101                     | 74.6       | 118        |
|                         |   | EG020A-F: Chromium | 7440-47-3     | 0.2 mg/L  | 101                     | 71.0       | 135        |
|                         |   | EG020A-F: Copper   | 7440-50-8     | 0.2 mg/L  | 102                     | 76.0       | 130        |
|                         |   | EG020A-F: Lead     | 7439-92-1     | 0.2 mg/L  | 101                     | 75.0       | 133        |
|                         |   | EG020A-F: Nickel   | 7440-02-0     | 0.2 mg/L  | 98.8                    | 73.0       | 131        |
|                         |   | EG020A-F: Zinc     | 7440-66-6     | 0.2 mg/L  | 104                     | 75.0       | 131        |



| QA/QC Compliance Assessment to assist with Quality Review |                    |                         |                                    |  |  |  |  |
|---|--------------------|-------------------------|------------------------------------|--|--|--|--|
| Work Order  | : EM2200148        | Page                    | : 1 of 4                           |  |  |  |  |
| Client  |                    | Laboratory              | : Environmental Division Melbourne |  |  |  |  |
| Contact   | : JEREMY MCDONNELL | Telephone               | : +61-3-8549 9600                  |  |  |  |  |
| Project   | : 20223763.001A    | Date Samples Received   | : 11-Jan-2022                      |  |  |  |  |
| Site  | : Glenlyon EMP     | Issue Date              | : 13-Jan-2022                      |  |  |  |  |
| Sampler   | : MK               | No. of samples received | : 1                                |  |  |  |  |
| Order number  | :                  | No. of samples analysed | :1                                 |  |  |  |  |

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

# **Summary of Outliers**

# **Outliers : Quality Control Samples**

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- <u>NO</u> Duplicate outliers occur.
- <u>NO</u> Laboratory Control outliers occur.
- <u>NO</u> Matrix Spike outliers occur.
- For all regular sample matrices, <u>NO</u> surrogate recovery outliers occur.

# **Outliers : Analysis Holding Time Compliance**

• Analysis Holding Time Outliers exist - please see following pages for full details.

# **Outliers : Frequency of Quality Control Samples**

• Quality Control Sample Frequency Outliers exist - please see following pages for full details.



## **Outliers : Analysis Holding Time Compliance**

Matrix: WATER

| Method   | Extraction / Preparation |  |         | Analysis      |                  |         |
|--|--------------------------|--|---------|---------------|------------------|---------|
| Container / Client Sample ID(s)                | Date extracted           | Date extracted Due for extraction Days |         | Date analysed | Due for analysis | Days    |
|  |                          |  | overdue |               |                  | overdue |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons |                          |  |         |               |                  |         |
| Amber Glass Bottle - Unpreserved               |                          |  |         |               |                  |         |
| QC02   | 11-Jan-2022              | 23-Dec-2021                            | 19      |               |                  |         |

#### **Outliers : Frequency of Quality Control Samples**

#### Matrix: WATER

| Count |         | Rate (%) |                            | Quality Control Specification   |
|-------|---------|----------|----------------------------|---|
| QC    | Regular | Actual   | Expected                   |   |
|       |         |          |                            |   |
| 0     | 3       | 0.00     | 10.00                      | NEPM 2013 B3 & ALS QC Standard  |
|       |         |          |                            |   |
| 0     | 3       | 0.00     | 5.00                       | NEPM 2013 B3 & ALS QC Standard  |
|       |         |          | QC Regular Actual 0 3 0.00 | QC     Regular     Actual     Expected       0     3     0.00     10.00 |

# Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

| Matrix: WATER   |             |                |                          | Evaluation | : × = Holding time | e breach ; ✓ = Withi | n holding time. |  |
|---|-------------|----------------|--------------------------|------------|--------------------|----------------------|-----------------|--|
| Method  | Sample Date | Ex             | Extraction / Preparation |            |                    | Analysis             |                 |  |
| Container / Client Sample ID(s)                         |             | Date extracted | Due for extraction       | Evaluation | Date analysed      | Due for analysis     | Evaluation      |  |
| EG020F: Dissolved Metals by ICP-MS                      |             |                |                          |            |                    |                      |                 |  |
| Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F) |             |                |                          |            |                    |                      |                 |  |
| QC02  | 16-Dec-2021 |                |                          |            | 11-Jan-2022        | 14-Jun-2022          | ✓               |  |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons          |             |                |                          |            |                    |                      |                 |  |
| Amber Glass Bottle - Unpreserved (EP075(SIM))           |             |                |                          |            |                    |                      |                 |  |
| QC02  | 16-Dec-2021 | 11-Jan-2022    | 23-Dec-2021              | *          | 12-Jan-2022        | 20-Feb-2022          | ✓               |  |



# **Quality Control Parameter Frequency Compliance**

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

| Matrix: WATER                        |            |    |         | Evaluation | n: × = Quality Co | ntrol frequency n | ot within specification ; 🗸 = Quality Control frequency within specification. |
|--------------------------------------|------------|----|---------|------------|-------------------|-------------------|---|
| Quality Control Sample Type          |            | Co | ount    |            | Rate (%)          |                   | Quality Control Specification   |
| Analytical Methods                   | Method     | 00 | Reaular | Actual     | Expected          | Evaluation        |   |
| Laboratory Duplicates (DUP)          |            |    |         |            |                   |                   |   |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F   | 2  | 10      | 20.00      | 10.00             | ✓                 | NEPM 2013 B3 & ALS QC Standard  |
| PAH/Phenols (GC/MS - SIM)            | EP075(SIM) | 0  | 3       | 0.00       | 10.00             | ×                 | NEPM 2013 B3 & ALS QC Standard  |
| Laboratory Control Samples (LCS)     |            |    |         |            |                   |                   |   |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F   | 1  | 10      | 10.00      | 5.00              | ✓                 | NEPM 2013 B3 & ALS QC Standard  |
| PAH/Phenols (GC/MS - SIM)            | EP075(SIM) | 1  | 3       | 33.33      | 5.00              | ✓                 | NEPM 2013 B3 & ALS QC Standard  |
| Method Blanks (MB)                   |            |    |         |            |                   |                   |   |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F   | 1  | 10      | 10.00      | 5.00              | ✓                 | NEPM 2013 B3 & ALS QC Standard  |
| PAH/Phenols (GC/MS - SIM)            | EP075(SIM) | 1  | 3       | 33.33      | 5.00              | ✓                 | NEPM 2013 B3 & ALS QC Standard  |
| Matrix Spikes (MS)                   |            |    |         |            |                   |                   |   |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F   | 1  | 10      | 10.00      | 5.00              | ✓                 | NEPM 2013 B3 & ALS QC Standard  |
| PAH/Phenols (GC/MS - SIM)            | EP075(SIM) | 0  | 3       | 0.00       | 5.00              | ×                 | NEPM 2013 B3 & ALS QC Standard  |



# **Brief Method Summaries**

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

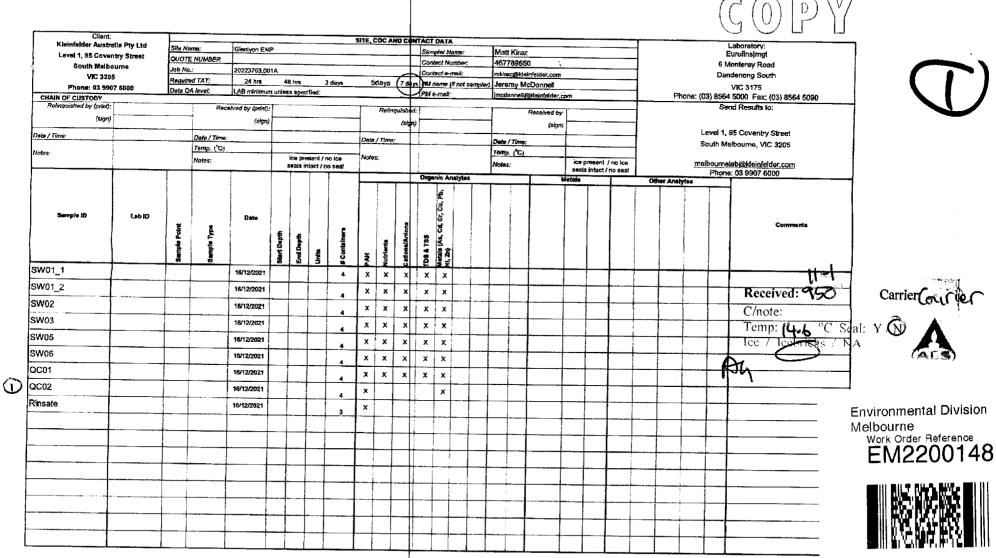
| Analytical Methods                      | Method     | Matrix | Method Descriptions   |
|---|------------|--------|---|
| Dissolved Metals by ICP-MS - Suite A    | EG020A-F   | WATER  | In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector. |
| PAH/Phenols (GC/MS - SIM)               | EP075(SIM) | WATER  | In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)  |
| Preparation Methods                     | Method     | Matrix | Method Descriptions   |
| Separatory Funnel Extraction of Liquids | ORG14      | WATER  | In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3). ALS default excludes sediment which may be resident in the container.  |

#### KLEINFELDER AUSTRALIA PTY LTD

Page 1 of 1

COC number;





Telsphone : + 61-3-8549 9600

851670



# **CERTIFICATE OF ANALYSIS**

| Work Order              | EM2200200                           | Page                    | : 1 of 4                  |                    |                       |
|-------------------------|-------------------------------------|-------------------------|---------------------------|--------------------|-----------------------|
| Client                  | : KLEINFELDER AUSTRALIA PTY LTD     | Laboratory              | Environmental Division N  | lelbourne          |                       |
| Contact                 | : MATT KIRAZ                        | Contact                 | : Gregory Gommers         |                    |                       |
| Address                 | ELEVEL 1, 95 COVENTRY STREET        | Address                 | : 4 Westall Rd Springvale | VIC Australia 3171 |                       |
|                         | SOUTH MELBOURNE VIC, AUSTRALIA 3205 |                         |                           |                    |                       |
| Telephone               | :                                   | Telephone               | : +61-3-8549 9600         |                    |                       |
| Project                 | : 20220348.001A                     | Date Samples Received   | : 12-Jan-2022 10:15       | ann mu             |                       |
| Order number            | :                                   | Date Analysis Commenced | : 12-Jan-2022             |                    |                       |
| C-O-C number            | :                                   | Issue Date              | : 14-Jan-2022 16:07       |                    | NATA                  |
| Sampler                 | : Matt Kiraz                        |                         |                           | <b>Hac-MRA</b>     | NATA                  |
| Site                    | : Glenlyon                          |                         |                           |                    |                       |
| Quote number            | : EN/222                            |                         |                           |                    | Accreditation No. 825 |
| No. of samples received | : 2                                 |                         |                           | Accredited         | for compliance with   |
| No. of samples analysed | : 1                                 |                         |                           | ISC                | D/IEC 17025 - Testing |
|                         |                                     |                         |                           |                    |                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

# Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| Signatories     | Position               | Accreditation Category                |
|-----------------|------------------------|---------------------------------------|
| Dilani Fernando | Laboratory Coordinator | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang      | 2IC Organic Chemist    | Melbourne Organics, Springvale, VIC   |



# **General Comments**

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

 Key :
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

 LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.

# Page : 3 of 4 Work Order : EM2200200 Client : KLEINFELDER AUSTRALIA PTY LTD Project : 20220348.001A



# Analytical Results

| Sub-Matrix: SOIL<br>(Matrix: SOIL)       | Sample ID         |         | QC02           | <br>              | <br> |      |
|--|-------------------|---------|----------------|-------------------|------|------|
|  |                   | Samplii | ng date / time | 16-Dec-2021 00:00 | <br> | <br> |
| Compound                                 | CAS Number        | LOR     | Unit           | EM2200200-001     | <br> | <br> |
|  |                   |         |                | Result            | <br> | <br> |
| EA055: Moisture Content (Dried @ 10      | 5-110°C)          |         |                |                   |      |      |
| Moisture Content                         |                   | 0.1     | %              | 26.6              | <br> | <br> |
| EP075(SIM)B: Polynuclear Aromatic H      | lydrocarbons      |         |                |                   |      |      |
| Naphthalene                              | 91-20-3           | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Acenaphthylene                           | 208-96-8          | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Acenaphthene                             | 83-32-9           | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Fluorene                                 | 86-73-7           | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Phenanthrene                             | 85-01-8           | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Anthracene                               | 120-12-7          | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Fluoranthene                             | 206-44-0          | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Pyrene                                   | 129-00-0          | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Benz(a)anthracene                        | 56-55-3           | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Chrysene                                 | 218-01-9          | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Benzo(b+j)fluoranthene                   | 205-99-2 205-82-3 | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Benzo(k)fluoranthene                     | 207-08-9          | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Benzo(a)pyrene                           | 50-32-8           | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Indeno(1.2.3.cd)pyrene                   | 193-39-5          | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Dibenz(a.h)anthracene                    | 53-70-3           | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| Benzo(g.h.i)perylene                     | 191-24-2          | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| ^ Sum of polycyclic aromatic hydrocarbor | ns                | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| ^ Benzo(a)pyrene TEQ (zero)              |                   | 0.5     | mg/kg          | <0.5              | <br> | <br> |
| ^ Benzo(a)pyrene TEQ (half LOR)          |                   | 0.5     | mg/kg          | 0.6               | <br> | <br> |
| ^ Benzo(a)pyrene TEQ (LOR)               |                   | 0.5     | mg/kg          | 1.2               | <br> | <br> |
| EP075(SIM)S: Phenolic Compound Su        | urrogates         |         |                |                   |      |      |
| Phenol-d6                                | 13127-88-3        | 0.5     | %              | 88.3              | <br> | <br> |
| 2-Chlorophenol-D4                        | 93951-73-6        | 0.5     | %              | 93.4              | <br> | <br> |
| 2.4.6-Tribromophenol                     | 118-79-6          | 0.5     | %              | 91.4              | <br> | <br> |
| EP075(SIM)T: PAH Surrogates              |                   |         |                |                   |      |      |
| 2-Fluorobiphenyl                         | 321-60-8          | 0.5     | %              | 104               | <br> | <br> |
| Anthracene-d10                           | 1719-06-8         | 0.5     | %              | 107               | <br> | <br> |
| 4-Terphenyl-d14                          | 1718-51-0         | 0.5     | %              | 103               | <br> | <br> |



### Surrogate Control Limits

| Sub-Matrix: SOIL               |            | Recovery | Limits (%) |
|--------------------------------|------------|----------|------------|
| Compound                       | CAS Number | Low      | High       |
| EP075(SIM)S: Phenolic Compound | Surrogates |          |            |
| Phenol-d6                      | 13127-88-3 | 54       | 125        |
| 2-Chlorophenol-D4              | 93951-73-6 | 65       | 123        |
| 2.4.6-Tribromophenol           | 118-79-6   | 34       | 122        |
| EP075(SIM)T: PAH Surrogates    |            |          |            |
| 2-Fluorobiphenyl               | 321-60-8   | 61       | 125        |
| Anthracene-d10                 | 1719-06-8  | 62       | 130        |
| 4-Terphenyl-d14                | 1718-51-0  | 67       | 133        |



### **QUALITY CONTROL REPORT**

| Work Order              | : EM2200200  | Page                    | : 1 of 3                                     |                       |
|-------------------------|--|-------------------------|--|-----------------------|
| Client                  | : KLEINFELDER AUSTRALIA PTY LTD                                      | Laboratory              | : Environmental Division Melbourne           |                       |
| Contact                 | : MATT KIRAZ   | Contact                 | : Gregory Gommers                            |                       |
| Address                 | : LEVEL 1, 95 COVENTRY STREET<br>SOUTH MELBOURNE VIC, AUSTRALIA 3205 | Address                 | : 4 Westall Rd Springvale VIC Australia 3171 |                       |
| Telephone               | :  | Telephone               | : +61-3-8549 9600                            |                       |
| Project                 | : 20220348.001A  | Date Samples Received   | : 12-Jan-2022                                |                       |
| Order number            | :  | Date Analysis Commenced | : 12-Jan-2022                                |                       |
| C-O-C number            | :  | Issue Date              | : 14-Jan-2022                                |                       |
| Sampler                 | : Matt Kiraz   |                         | Hac-MRA                                      | NATA                  |
| Site                    | : Glenlyon   |                         |  |                       |
| Quote number            | : EN/222   |                         |  | Accreditation No. 825 |
| No. of samples received | : 2  |                         |  | d for compliance with |
| No. of samples analysed | : 1  |                         | IS   | O/IEC 17025 - Testing |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

#### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| Signatories     | Position               | Accreditation Category                |
|-----------------|------------------------|---------------------------------------|
| Dilani Fernando | Laboratory Coordinator | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang      | 2IC Organic Chemist    | Melbourne Organics, Springvale, VIC   |



#### **General Comments**

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

# = Indicates failed QC

#### Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

| Sub-Matrix: SOIL       | ıb-Matrix: SOIL        |                                    |            |       |       | Laboratory Duplicate (DUP) Report |                  |          |                    |  |  |
|------------------------|------------------------|------------------------------------|------------|-------|-------|-----------------------------------|------------------|----------|--------------------|--|--|
| Laboratory sample ID   | Sample ID              | Method: Compound                   | CAS Number | LOR   | Unit  | Original Result                   | Duplicate Result | RPD (%)  | Acceptable RPD (%) |  |  |
| EA055: Moisture Co     | ntent (Dried @ 105-1   | 10°C) (QC Lot: 4116247)            |            |       |       |                                   |                  |          |                    |  |  |
| EM2200200-001          | QC02                   | EA055: Moisture Content            |            | 0.1   | %     | 26.6                              | 27.9             | 4.8      | 0% - 20%           |  |  |
| EP075(SIM)B: Polyn     | uclear Aromatic Hyd    | Irocarbons (QC Lot: 4116237)       |            |       |       |                                   |                  |          |                    |  |  |
| EM2200200-001          | QC02                   | EP075(SIM): Naphthalene            | 91-20-3    | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Acenaphthylene         | 208-96-8   | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Acenaphthene           | 83-32-9    | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Fluorene               | 86-73-7    | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Phenanthrene           | 85-01-8    | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
| EP075(SIM): Anthracene | EP075(SIM): Anthracene | 120-12-7                           | 0.5        | mg/kg | <0.5  | <0.5                              | 0.0              | No Limit |                    |  |  |
|                        |                        | EP075(SIM): Fluoranthene           | 206-44-0   | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Pyrene                 | 129-00-0   | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Benz(a)anthracene      | 56-55-3    | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Chrysene               | 218-01-9   | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Benzo(b+j)fluoranthene | 205-99-2   | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        |                                    | 205-82-3   |       |       |                                   |                  |          |                    |  |  |
|                        |                        | EP075(SIM): Benzo(k)fluoranthene   | 207-08-9   | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Benzo(a)pyrene         | 50-32-8    | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Indeno(1.2.3.cd)pyrene | 193-39-5   | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Dibenz(a.h)anthracene  | 53-70-3    | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |
|                        |                        | EP075(SIM): Benzo(g.h.i)perylene   | 191-24-2   | 0.5   | mg/kg | <0.5                              | <0.5             | 0.0      | No Limit           |  |  |



#### Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

| Sub-Matrix: SOIL                              |                     | Method Blank (MB) |       | Laboratory Control Spike (LC | S) Report     |                    |            |            |
|---|---------------------|-------------------|-------|------------------------------|---------------|--------------------|------------|------------|
|   |                     |                   |       |                              | Spike         | Spike Recovery (%) | Acceptable | Limits (%) |
| Method: Compound                              | CAS Number          | LOR               | Unit  | Result                       | Concentration | LCS                | Low        | High       |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbor | ns (QCLot: 4116237) |                   |       |                              |               |                    |            |            |
| EP075(SIM): Naphthalene                       | 91-20-3             | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 93.1               | 85.7       | 123        |
| EP075(SIM): Acenaphthylene                    | 208-96-8            | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 87.3               | 81.0       | 123        |
| EP075(SIM): Acenaphthene                      | 83-32-9             | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 96.4               | 83.6       | 120        |
| EP075(SIM): Fluorene                          | 86-73-7             | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 94.8               | 81.3       | 126        |
| EP075(SIM): Phenanthrene                      | 85-01-8             | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 88.9               | 79.4       | 123        |
| EP075(SIM): Anthracene                        | 120-12-7            | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 91.7               | 81.7       | 127        |
| EP075(SIM): Fluoranthene                      | 206-44-0            | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 83.3               | 78.3       | 124        |
| EP075(SIM): Pyrene                            | 129-00-0            | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 86.4               | 79.9       | 128        |
| EP075(SIM): Benz(a)anthracene                 | 56-55-3             | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 80.8               | 76.9       | 123        |
| EP075(SIM): Chrysene                          | 218-01-9            | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 90.2               | 80.9       | 130        |
| EP075(SIM): Benzo(b+j)fluoranthene            | 205-99-2            | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 73.0               | 70.0       | 121        |
|   | 205-82-3            |                   |       |                              |               |                    |            |            |
| EP075(SIM): Benzo(k)fluoranthene              | 207-08-9            | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 92.5               | 80.4       | 130        |
| EP075(SIM): Benzo(a)pyrene                    | 50-32-8             | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 77.8               | 70.2       | 123        |
| EP075(SIM): Indeno(1.2.3.cd)pyrene            | 193-39-5            | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 75.0               | 67.9       | 122        |
| EP075(SIM): Dibenz(a.h)anthracene             | 53-70-3             | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 75.8               | 65.8       | 123        |
| EP075(SIM): Benzo(g.h.i)perylene              | 191-24-2            | 0.5               | mg/kg | <0.5                         | 3 mg/kg       | 82.2               | 65.8       | 127        |

#### Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.



|              | QA/QC Compliance Assessment to assist with Quality Review |                         |                                    |  |  |  |  |  |  |
|--------------|---|-------------------------|------------------------------------|--|--|--|--|--|--|
| Work Order   | : EM2200200   | Page                    | : 1 of 4                           |  |  |  |  |  |  |
| Client       |   | Laboratory              | : Environmental Division Melbourne |  |  |  |  |  |  |
| Contact      | : MATT KIRAZ  | Telephone               | : +61-3-8549 9600                  |  |  |  |  |  |  |
| Project      | : 20220348.001A   | Date Samples Received   | : 12-Jan-2022                      |  |  |  |  |  |  |
| Site         | : Glenlyon  | Issue Date              | : 14-Jan-2022                      |  |  |  |  |  |  |
| Sampler      | : Matt Kiraz  | No. of samples received | : 2                                |  |  |  |  |  |  |
| Order number | :   | No. of samples analysed | : 1                                |  |  |  |  |  |  |
|              |   | No. Or samples analyseu | . 1                                |  |  |  |  |  |  |

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

### Summary of Outliers

#### **Outliers : Quality Control Samples**

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- <u>NO</u> Duplicate outliers occur.
- <u>NO</u> Laboratory Control outliers occur.
- <u>NO</u> Matrix Spike outliers occur.
- For all regular sample matrices, <u>NO</u> surrogate recovery outliers occur.

#### **Outliers : Analysis Holding Time Compliance**

• Analysis Holding Time Outliers exist - please see following pages for full details.

#### **Outliers : Frequency of Quality Control Samples**

• Quality Control Sample Frequency Outliers exist - please see following pages for full details.



#### **Outliers : Analysis Holding Time Compliance**

| Matri | x: | SO | IL |
|-------|----|----|----|

| Method   | Ex             |                    | Analysis |               |                  |         |
|--|----------------|--------------------|----------|---------------|------------------|---------|
| Container / Client Sample ID(s)                | Date extracted | Due for extraction | Days     | Date analysed | Due for analysis | Days    |
|  |                |                    | overdue  |               |                  | overdue |
| EA055: Moisture Content (Dried @ 105-110°C)    |                |                    |          |               |                  |         |
| Soil Glass Jar - Unpreserved                   |                |                    |          |               |                  |         |
| QC02   |                |                    |          | 12-Jan-2022   | 30-Dec-2021      | 13      |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons |                |                    |          |               |                  |         |
| Soil Glass Jar - Unpreserved                   |                |                    |          |               |                  |         |
| QC02   | 12-Jan-2022    | 30-Dec-2021        | 13       |               |                  |         |

#### **Outliers : Frequency of Quality Control Samples**

| Matrix: SOIL                |    |    |         |   |        |          |                                |
|-----------------------------|----|----|---------|---|--------|----------|--------------------------------|
| Quality Control Sample Type |    | Co | unt     |   | Rate   | e (%)    | Quality Control Specification  |
| Method                      | QC |    | Regular | A | Actual | Expected |                                |
| Matrix Spikes (MS)          |    |    |         |   |        |          |                                |
| PAH/Phenols (SIM)           | 0  |    | 1       |   | 0.00   | 5.00     | NEPM 2013 B3 & ALS QC Standard |

#### Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

| Matrix: SOIL                                   |             |                |                        | Evaluation | : × = Holding time | breach ; 🗸 = Withi | n holding time. |
|--|-------------|----------------|------------------------|------------|--------------------|--------------------|-----------------|
| Method   | Sample Date | Ex             | traction / Preparation |            |                    | Analysis           |                 |
| Container / Client Sample ID(s)                |             | Date extracted | Due for extraction     | Evaluation | Date analysed      | Due for analysis   | Evaluation      |
| EA055: Moisture Content (Dried @ 105-110°C)    |             |                |                        |            |                    |                    |                 |
| Soil Glass Jar - Unpreserved (EA055)           |             |                |                        |            |                    |                    |                 |
| QC02   | 16-Dec-2021 |                |                        |            | 12-Jan-2022        | 30-Dec-2021        | *               |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons |             |                |                        |            |                    |                    |                 |
| Soil Glass Jar - Unpreserved (EP075(SIM))      |             |                |                        |            |                    |                    |                 |
| QC02   | 16-Dec-2021 | 12-Jan-2022    | 30-Dec-2021            | *          | 13-Jan-2022        | 21-Feb-2022        | ✓               |



### **Quality Control Parameter Frequency Compliance**

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

| Matrix: SOIL                     |            |    |         | Evaluation | n: × = Quality Co | ntrol frequency n | ot within specification ; $\checkmark$ = Quality Control frequency within specification. |  |                               |
|----------------------------------|------------|----|---------|------------|-------------------|-------------------|--|--|-------------------------------|
| Quality Control Sample Type      |            | Co | ount    | Rate (%)   |                   | Rate (%)          |  |  | Quality Control Specification |
| Analytical Methods               | Method     | 00 | Reaular | Actual     | Expected          | Evaluation        |  |  |                               |
| Laboratory Duplicates (DUP)      |            |    |         |            |                   |                   |  |  |                               |
| Moisture Content                 | EA055      | 1  | 1       | 100.00     | 10.00             | ✓                 | NEPM 2013 B3 & ALS QC Standard   |  |                               |
| PAH/Phenols (SIM)                | EP075(SIM) | 1  | 1       | 100.00     | 10.00             | ✓                 | NEPM 2013 B3 & ALS QC Standard   |  |                               |
| Laboratory Control Samples (LCS) |            |    |         |            |                   |                   |  |  |                               |
| PAH/Phenols (SIM)                | EP075(SIM) | 1  | 1       | 100.00     | 5.00              | ✓                 | NEPM 2013 B3 & ALS QC Standard   |  |                               |
| Method Blanks (MB)               |            |    |         |            |                   |                   |  |  |                               |
| PAH/Phenols (SIM)                | EP075(SIM) | 1  | 1       | 100.00     | 5.00              | ✓                 | NEPM 2013 B3 & ALS QC Standard   |  |                               |
| Matrix Spikes (MS)               |            |    |         |            |                   |                   |  |  |                               |
| PAH/Phenols (SIM)                | EP075(SIM) | 0  | 1       | 0.00       | 5.00              | ×                 | NEPM 2013 B3 & ALS QC Standard   |  |                               |



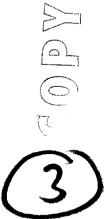
### **Brief Method Summaries**

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

| Analytical Methods           | Method     | Matrix | Method Descriptions  |
|------------------------------|------------|--------|--|
| Moisture Content             | EA055      | SOIL   | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).  |
| PAH/Phenols (SIM)            | EP075(SIM) | SOIL   | In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3) |
| Preparation Methods          | Method     | Matrix | Method Descriptions  |
| Tumbler Extraction of Solids | ORG17      | SOIL   | In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.           |

| CHAIN OF CUSTODY<br>Relinquished by (print): |               |              | Rece         | elved by (print) | :           |           |            |              | Τ_   | Relinguisi | ed:         |         |          |          | T      | F                   | Received by                    |        |            |        |           |       | Send Results to:        |           |                                    |
|--|---------------|--------------|--------------|------------------|-------------|-----------|------------|--------------|------|------------|-------------|---------|----------|----------|--------|---------------------|--------------------------------|--------|------------|--------|-----------|-------|-------------------------|-----------|------------------------------------|
| (sign)                                       |               |              | -            | (sign            |             |           |            |              | -    | (s         | ign)        |         |          |          | 1      |                     | (sign)                         | -      | ·/         |        |           | Leve  | l 1, 95 Coventry Street |           |                                    |
| Date / Time:                                 |               |              | Date / Time: |                  |             |           |            |              | Date | / Time:    |             |         |          |          | Date / | Time:               |                                |        |            |        |           |       | h Melbourne, VIC 3205   |           | N                                  |
| lotes:                                       |               |              | Temp. (°C)   |                  | -           | ice ore   | sent / n   | oice         | Note | s:         |             |         |          |          | Temp.  |                     |                                |        | present /  |        |           | malha | urnelab@kleinfelder.com |           |                                    |
|  |               |              | Notes:       |                  |             | seals in  | ntact / no | seal         |      |            |             |         |          |          | Notes: |                     |                                | seals  | sjintact / |        |           | P     | hone: 03 9907 6000      |           |                                    |
|  |               |              |              |                  |             |           |            |              | -    |            |             | ganic A | ланутез  | <u> </u> |        |                     |                                | Metals | 1          | Othe   | er Analyi | tes   |                         |           |                                    |
| Sample ID                                    | Lab ID        | Sample Point | Sample Type  | Date             | Start Depth | End Depth | Units      | # Containers | AH   | tor D      |             |         |          |          |        |                     |                                |        |            |        |           |       | Comm                    | ents      |                                    |
| SS15_4_0.0-0.1                               |               | 1            | Soil         | 16/12/2021       | +           | 1         |            | 1            | ×    |            | ╈           |         |          | 1        |        |                     |                                |        | 1          |        |           |       |                         | <u> </u>  |                                    |
| SS15_4_0.3-0.4                               |               |              | Soil         | 16/12/2021       |             |           |            | 1            |      | x          |             |         |          |          | 1      |                     |                                |        | 1          |        |           |       |                         |           | -                                  |
| SS15_5_0.0-0.1                               |               |              | Soil         | 16/12/2021       |             |           |            | 1            | ×    |            |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           |                                    |
| SS15_5_0.3-0.4                               |               |              | Soil         | 16/12/2021       |             |           |            | 1            |      | x          |             |         |          |          |        |                     |                                |        |            |        | -         |       |                         |           |                                    |
| SS15_6_0.0-0.1                               |               |              | Soil         | 16/12/2021       |             |           |            | 1            | ×    |            |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           |                                    |
| SS15_6_0.3-0.4                               |               |              | Soil         | 16/12/2021       |             |           |            | 1            |      | x          |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           | 1 171                              |
| SS29_1_0.0_0.1                               |               |              | Soil         | 16/12/2021       |             |           |            | 1            | x    |            |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           |                                    |
| S29_1_0.4_0.5                                |               |              | Soll         | 16/12/2021       |             |           |            | 1            |      | x          |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           |                                    |
| S29_2_0.0_0.1                                |               |              | Soil         | 16/12/2021       |             |           |            | 1            | x    |            |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           |                                    |
| S29_2_0.4_0.5                                |               |              | Soil         | 16/12/2021       |             |           |            | 1            |      | ×          |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           |                                    |
| S29_3_0.0_0.1                                |               |              | Soil         | 16/12/2021       |             |           |            | 1            | x    |            |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           | Environmental Divisi               |
| SS29_3_0.4_0.5                               |               |              | Soil         | 16/12/2021       |             |           |            | 1            |      | ×          |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           | Melbourne                          |
| \$\$29_4_0.0_0.1                             |               |              | Soil         | 16/12/2021       |             |           |            | 1            | x    |            |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           | Work Order Reference               |
| SS29_4_0.4_0,5                               |               |              | Soil         | 16/12/2021       |             |           |            | 1            |      | ×          |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           | EM220020                           |
| \$29_5_0.0_0.1                               |               |              | Soil         | 16/12/2021       |             | <u> </u>  |            | 1            | x    |            |             |         |          |          |        |                     |                                |        |            | <br>   | ]         |       |                         |           |                                    |
| \$29_5_0,4_0.5                               |               |              | Soil         | 16/12/2021       |             |           |            | 1            |      | ×          |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           |                                    |
| S29_6_0.0_0.1                                |               |              | Soil         | 16/12/2021       |             |           |            | 1            | x    |            |             |         |          |          |        |                     |                                |        |            |        |           |       |                         |           |                                    |
| S29_6_0.4_0.5                                |               |              | Soil         | 16/12/2021       |             |           |            | 1            |      | ×          | $\parallel$ |         | <b> </b> |          |        |                     |                                |        |            |        |           |       |                         |           |                                    |
| W03_0.0_0.1                                  |               |              | Soil         | 16/12/2021       |             |           |            | 1            | ×    | x          |             |         | ļ        |          |        |                     |                                |        |            |        |           |       |                         |           | gentili mit 'nnti"t'n ff" tin jool |
| 1  |               |              | Clay Fragmer | 16/12/2021       | <u> </u>    |           |            | 1            | ×    |            |             |         |          |          |        |                     |                                |        |            | <br>   |           |       |                         | <u></u>   | Telephone - + 51-3-8549 9600       |
| 2C01   |               |              | Soil         | 16/12/2021       |             |           |            | 1            | x    |            | $\parallel$ | _       |          |          |        |                     |                                |        |            | <br>   |           |       |                         |           | -1                                 |
| C02  |               |              | Soil         | 16/12/2021       |             |           |            | 1            | ×    |            | $\square$   | _       | ļ        |          |        |                     |                                |        |            | <br>   |           |       | PLEASE FORW             | ARD TO AL | s                                  |
| 003  |               |              | Soil         | 16/12/2021       |             |           |            | 1            |      | x          | Щ           |         |          |          |        |                     |                                |        |            |        |           |       |                         |           |                                    |
| Zeling.                                      | uisha<br>1210 | 20           | by           | 2<br>8A          | 50          | ,\]-      | ะา         | al           | つ    |            |             |         |          |          | ~      | /not<br>emp<br>ce / | ived:<br>e:<br>:: V:<br>Igebri |        |            | Carrie | er: ((    | our   | ier                     |           |                                    |

| CHAIN OF CUSTODY         |        |              |                         |                   |             |                     |       |              |        |               |       |           |      |        |        |              |       |                      | <br> |           |             | Sen      | d Results to:                          |
|--------------------------|--------|--------------|-------------------------|-------------------|-------------|---------------------|-------|--------------|--------|---------------|-------|-----------|------|--------|--------|--------------|-------|----------------------|------|-----------|-------------|----------|--|
| Relinquished by (print): |        |              | Rec                     | elved by (print): |             |                     |       |              |        | Relinquished: |       |           |      |        | R      | leceived by: |       |                      |      |           |             |          |  |
| (sign)                   |        |              | 1                       | (sign)            |             |                     |       |              | 1      | (sign)        |       |           |      |        |        | (sign)       |       |                      |      |           | Lev         | vel 1, 9 | 95 Coventry Street                     |
| Date / Time:             | ·. · · |              | Date / Time:            |                   |             |                     |       |              | Date / | / Time:       |       |           |      | Date , | Time:  |              |       |                      |      |           | Sou         | uth Me   | bourne, VIC 3205                       |
|                          |        |              | Temp. ( <sup>0</sup> C) |                   |             |                     |       |              |        |               |       |           |      | Temp   | . (°C) |              |       |                      |      |           |             |          |  |
| Notes:                   |        |              | Notes:                  |                   |             | ce pres<br>eals int |       |              | Notes  | :             |       |           |      | Notes  | r.     |              |       | resent /<br>intact/r |      |           |             |          | lab@kleinfelder.com<br>e: 03 9907 6000 |
|                          |        | 1            |                         |                   |             |                     |       |              |        |               | Organ | ilc Analy | rtes |        |        | N            | etals |                      | Othe | er Analyt | <b>18</b> 5 |          |  |
| Sample ID                | Lab ID | Sample Point | Sample Type             | Date              | Start Depth | End Depth           | Units | # Containers | РАН    | П             |       |           |      |        |        |              |       |                      |      |           |             |          | Comments                               |
| QC04                     |        |              | Soil                    | 16/12/2021        |             |                     |       | 1            |        | ×             |       |           |      |        |        |              |       |                      |      |           |             |          | PLEASE FORWARD TO ALS                  |
| QC05                     |        |              | Water                   | 16/12/2021        |             |                     |       | 3            | х      |               |       |           |      |        |        |              |       |                      |      |           |             |          |  |
|                          |        |              |                         |                   |             |                     |       |              |        |               |       |           |      |        |        |              |       |                      |      | -         |             |          |  |
|                          |        |              | 1                       |                   |             |                     |       |              |        |               | 1     |           |      |        |        |              |       |                      | <br> |           |             |          |  |
|                          |        | <u> </u>     | I                       |                   |             |                     |       |              |        |               | Щ., . |           |      |        |        |              |       |                      |      |           |             |          |  |



Autorah on 12/01 at som

| Client:                    |            |              |             |                   |             |           |                        | s            | ITE, COC | AND         | ONTAC | T DAT    | 1          |          |                     |                 |          |            |        | [   |           |          |           | aboratory:                           |
|----------------------------|------------|--------------|-------------|-------------------|-------------|-----------|------------------------|--------------|----------|-------------|-------|----------|------------|----------|---------------------|-----------------|----------|------------|--------|-----|-----------|----------|-----------|--------------------------------------|
| Kleinfelder Australi       | ia Pty Ltd | Site Nai     | me:         | Glenlyon          |             |           |                        |              |          |             | Sa    | ampler l | lame:      |          | Matt Kiraz          |                 |          |            |        |     |           |          | E         | urofins mgt                          |
| Level 1, 95 Covent         | -          | QUOTE        | NUMBER      |                   |             |           |                        |              |          |             |       | ontact N | umber:     |          | 467789650           |                 |          |            |        |     |           |          |           | onterey Road                         |
| South Melbou               |            | Job No.      |             | 20220348.001      |             |           |                        |              |          |             |       | ontact e |            |          | mkiraz@klein        |                 |          |            |        | -   |           |          |           | denong South                         |
| VIC 3205<br>Phone: 03 9907 |            | Require      |             | 24 hrs            |             | hrs       |                        | days         | 5da      | <b>⊻{</b> 7 |       |          | (if not sa | mpler)   |                     |                 |          |            |        |     | Pho       | no: (03  |           | VIC 3175<br>5000 Fax: (03) 8564 5090 |
| CHAIN OF CUSTODY           | 6000       | Data Q/      | A level:    | LAB minimum       | unless      | specifi   | ed:                    |              |          |             |       | M e-mai  |            |          | <u>]imcdonnell@</u> | kleinfelder.cor | <u>n</u> |            |        |     | FIL       | une. (03 | <u> </u>  | d Results to:                        |
| Relinquished by (print):   |            | ·            | Rea         | eived by (print): |             |           |                        |              | F        | Relinquis   | hed   |          |            |          |                     | Received by:    |          |            |        | 1   |           |          | 00        |                                      |
| (sign)                     |            |              |             | (sign)            |             |           |                        |              | ]        | (-          | sign) |          |            |          |                     | (sign)          |          |            |        | ]   |           | Le       | evel 1, 9 | 95 Coventry Street                   |
| Date / Time:               |            |              | Date / Time |                   |             |           |                        |              | Date / T | ime:        |       |          |            |          | Date / Time:        |                 |          |            |        | 4   |           | Sc       | outh Me   | lbourne, VIC 3205                    |
| Notes:                     |            |              | Temp. (°C)  |                   |             |           |                        |              | Notes:   |             |       |          |            |          | Temp. (°C)          |                 | ion on   | esent /    | no inc | -   |           | mal      | hourno    | ab@kleinfelder.com                   |
| NOIS3.                     |            |              | Notes:      |                   |             |           | sent / no<br>tact / по |              | 1.0000   |             |       |          |            |          | Notes:              |                 |          | intact / r |        |     |           |          |           | : 03 9907 6000                       |
|                            |            |              |             |                   | <u> </u>    |           |                        |              |          |             | 0     | rganic , | Analytes   | ;        |                     | N               | letals   |            |        | Oti | ter Analy | ytes     |           |                                      |
|                            |            |              |             |                   |             |           |                        |              |          |             |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| Sample ID                  | Lab ID     | Sample Point | Sample Type | Date              | Start Depth | End Depth | s                      | # Containers |          |             |       |          |            |          |                     |                 |          |            |        |     |           |          |           | Comments                             |
|                            |            | San          | Sar         |                   | Star        | End       | Units                  | Ŭ<br>#       | PAH      | Ногр        |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_1_0.0_0.1             | - <u> </u> |              | Soil        | 16/12/2021        |             |           |                        | 1            | x        |             |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_1_0.4_0.5             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            |          | х           |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_2_0.0_0.1             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            | x        |             |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_2_0.4_0.5             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            |          | х           |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_3_0.0_0.1             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            | x        |             |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_3_0.4_0.5             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            |          | х           |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_4_0.0_0.1             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            | x        |             |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_4_0.4_0.5             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            |          | х           |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_5_0.0_0.1             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            | ×        |             |       |          |            |          |                     |                 |          |            |        |     |           | -        |           |                                      |
| SS27_5_0.4_0.5             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            |          | х           |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_6_0.0_0.1             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            | x        |             |       |          |            | <u> </u> |                     |                 |          |            |        |     |           |          |           |                                      |
| SS27_6_0.4_0.5             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            |          | x           |       |          |            | <u> </u> |                     |                 |          |            |        |     |           |          |           |                                      |
| SS15_1_0.0-0.1             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            | x        |             |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |
| SS15_1_0.3-0.4             |            |              | Soil        | 16/12/2021        |             | ļ         |                        | 1            |          | x           |       |          |            | _        | ļ                   | ļ               |          |            |        |     |           |          |           |                                      |
| SS15_2_0.0-0.1             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            | x        |             |       |          |            | -        |                     |                 |          |            |        |     |           |          | -         |                                      |
| SS15_2_0.3-0.4             |            | _            | Soil        | 16/12/2021        |             |           |                        | 1            |          | x           |       |          |            | -        |                     |                 |          |            |        |     | ļ         |          | <u> </u>  |                                      |
| SS15_3_0.0-0.1             |            |              | Soil        | 16/12/2021        |             | <u> </u>  |                        | 1            | X        |             |       |          |            | 1        |                     |                 |          |            |        |     | <u> </u>  | -        |           |                                      |
| SS15_3_0.3-0.4             |            |              | Soil        | 16/12/2021        |             |           |                        | 1            |          | x           |       |          |            |          |                     |                 |          |            |        |     |           |          |           |                                      |

| CHAIN OF CUSTODY         |          |              | · · · · · · · · · · · · · · · · · · · |                             |             |           |                        |              | 1      | "       |                   | 1        |          |                     |           |                       |       |                        | <br><u> </u> |           |             | Ser    | nd Results to:                         |
|--------------------------|----------|--------------|---------------------------------------|-----------------------------|-------------|-----------|------------------------|--------------|--------|---------|-------------------|----------|----------|---------------------|-----------|-----------------------|-------|------------------------|--------------|-----------|-------------|--------|--|
| Relinguished by (print): |          |              | Rece                                  | eived by (print):<br>(sign) |             |           |                        |              | -      | Relin   | quished<br>(sign) |          |          | <br>_               | R         | eceived by:<br>(sign) |       |                        |              |           |             |        |  |
| (sign)                   |          |              |                                       | [3/9/1]                     | -           | • •       |                        |              |        |         |                   |          |          |                     |           | (3917)                |       |                        |              |           |             |        | 95 Coventry Street                     |
| Date / Time:             |          |              | Date / Time:<br>Temp. (°C)            |                             |             |           |                        |              | Date . | / Time. | ;                 |          |          | Date / T<br>Temp. ( |           |                       |       |                        |              |           | So          | uth Me | elbourne, VIC 3205                     |
| Notes:                   |          |              | Notes:                                |                             |             |           | sent / ni<br>tact / no |              | Notes  | s:      |                   |          |          | Notes:              |           |                       |       | resent /<br>intact / i | 1            |           | <u>meit</u> | Dourne | lab@kleinfelder.com<br>a: 03 9907 6000 |
| Sample ID                | Lab ID   | Sample Point | Sample Type                           | Date                        | Start Depth | End Depth | Units                  | # Containers | PAH    | НОГЪ    |                   |          |          |                     |           |                       |       |                        |              |           |             |        | Comments                               |
| SS15_4_0.0-0.1           | <u> </u> |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            | X      |         |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS15_4_0.3-0.4           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            |        | x       |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS15_5_0.0-0.1           |          | 1            | Soil                                  | 16/12/2021                  |             |           | 1                      | 1            | ×      |         |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS15_5_0.3-0.4           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            |        | x       |                   |          |          |                     |           |                       |       |                        | <br>         |           |             |        |  |
| SS15_6_0.0-0.1           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            | x      |         |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS15_6_0.3-0.4           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            |        | x       |                   |          |          |                     |           |                       |       |                        |              |           | 1           |        |  |
| SS29_1_0.0_0.1           |          | 1            | Soil                                  | 16/12/2021                  |             |           |                        | 1            | x      |         |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS29_1_0.4_0.5           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            |        | X       |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS29_2_0.0_0.1           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            | x      |         |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS29_2_0.4_0.5           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            |        | x       |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS29_3_0.0_0.1           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            | х      |         |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS29_3_0.4_0.5           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            |        | x       |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS29_4_0.0_0.1           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            | x      |         |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS29_4_0.4_0.5           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            |        | X       |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| \$\$29_5_0.0_0.1         |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            | x      |         |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS29_5_0.4_0.5           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            |        | x       |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS29_6_0.0_0.1           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            | x      |         |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| SS29_6_0.4_0.5           |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            |        | X       |                   | <b> </b> |          |                     |           |                       |       |                        |              |           |             |        |  |
| SW03_0.0_0.1             |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            | x      | X       |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| S1                       |          |              | Clay Fragme                           | r 16/12/2021                |             |           |                        | 1            | x      |         |                   |          |          |                     |           |                       |       |                        |              |           |             | ļ      |  |
| QC01                     |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            | x      |         |                   |          |          |                     |           |                       |       |                        |              |           |             |        |  |
| QC02                     |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            | ×      |         | <u> </u>          |          |          |                     | $\square$ |                       |       |                        |              |           |             |        | PLEASE FORWARD TO ALS                  |
| QC03                     |          |              | Soil                                  | 16/12/2021                  |             |           |                        | 1            |        | Х       |                   |          | ic Analy |                     |           |                       | etals |                        |              | ier Analy |             |        |  |

| CHAIN OF CUSTODY         |        |              |              |                   |             |                      |       |              |        |         |          | 1 |  |        |       |              |                        |       |    | Ser      | nd Results to:                                |
|--------------------------|--------|--------------|--------------|-------------------|-------------|----------------------|-------|--------------|--------|---------|----------|---|--|--------|-------|--------------|------------------------|-------|----|----------|---|
| Relinquished by (print): |        |              | Rec          | eived by (print): |             |                      |       |              |        | Relind  | quished  |   |  |        | F     | Received by: |                        |       |    |          |   |
| (sign)                   |        |              |              | (sign)            |             |                      |       |              |        |         | (sign    |   |  | ]      |       | (sign)       |                        | ]     | Le | vel 1, 9 | 95 Coventry Street                            |
| Date / Time:             |        |              | Date / Time: |                   |             |                      |       |              | Date / | / Time: |          |   |  | Date / | Time: |              |                        |       | So | outh Me  | elbourne, VIC 3205                            |
|                          |        |              | Temp. (°C)   |                   |             |                      |       |              |        |         |          |   |  | Temp.  | (°C)  |              |                        | <br>_ |    |          |   |
| Notes:                   |        |              | Notes:       |                   |             | ice pres<br>seals in |       |              | Notes  |         |          |   |  | Notes: |       |              | resent /<br>intact / r |       |    |          | <u>lab@kleinfelder.com</u><br>e: 03 9907 6000 |
| Sample /D                | Lab ID | Sample Point | Sample Type  | Date              | Start Depth | End Depth            | Units | # Containers | РАН    | НОГР    |          |   |  |        |       |              |                        |       |    |          | Comments                                      |
| QC04                     |        |              | Soil         | 16/12/2021        |             |                      |       | 1            |        | x       |          |   |  |        |       |              |                        |       |    |          | PLEASE FORWARD TO AL                          |
| QC05                     |        |              | Water        | 16/12/2021        |             |                      |       | 3            | х      |         |          |   |  |        |       |              |                        |       |    |          |   |
|                          |        |              |              |                   |             |                      |       |              |        |         |          |   |  |        |       |              |                        |       |    |          |   |
|                          |        | 1            |              |                   |             |                      |       |              |        |         | <u> </u> |   |  |        |       |              |                        |       |    |          |   |



Kleinfelder Australia Pty Ltd (VIC) Level 1, 95 Coventry St South Melbourne VIC 3205

Attention:

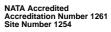
Jeremy McDonnell

Report Project name Project ID Received Date 854503-S-V2 GLENLYON 20220348.001A Jan 11, 2022

| Client Sample ID                      |     |       | SS27_1_0.0-0.1 | SS27_2_0.0-0.1 | SS27_3_0.0-0.1 | SS27_4_0.0-0.1 |
|---------------------------------------|-----|-------|----------------|----------------|----------------|----------------|
| Sample Matrix                         |     |       | Soil           | Soil           | Soil           | Soil           |
| Eurofins Sample No.                   |     |       | M22-Ja05279    | M22-Ja05280    | M22-Ja05281    | M22-Ja05282    |
| Date Sampled                          |     |       | Dec 15, 2022   | Dec 17, 2022   | Dec 19, 2022   | Dec 21, 2022   |
| Test/Reference                        | LOR | Unit  |                |                |                |                |
| Polycyclic Aromatic Hydrocarbons      |     |       |                |                |                |                |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | < 0.5          | 1.6            | < 0.5          | < 0.5          |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 0.6            | 1.9            | 0.6            | 0.6            |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 1.2            | 2.2            | 1.2            | 1.2            |
| Acenaphthene                          | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Anthracene                            | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Benz(a)anthracene                     | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Benzo(a)pyrene                        | 0.5 | mg/kg | < 0.5          | 1.2            | < 0.5          | < 0.5          |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | < 0.5          | 2.3            | < 0.5          | < 0.5          |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | < 0.5          | 0.9            | < 0.5          | < 0.5          |
| Chrysene                              | 0.5 | mg/kg | < 0.5          | 0.7            | < 0.5          | < 0.5          |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Fluoranthene                          | 0.5 | mg/kg | < 0.5          | 1.5            | < 0.5          | < 0.5          |
| Fluorene                              | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | < 0.5          | 1.0            | < 0.5          | < 0.5          |
| Naphthalene                           | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Phenanthrene                          | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Pyrene                                | 0.5 | mg/kg | < 0.5          | 1.5            | < 0.5          | < 0.5          |
| Total PAH*                            | 0.5 | mg/kg | < 0.5          | 9.1            | < 0.5          | < 0.5          |
| 2-Fluorobiphenyl (surr.)              | 1   | %     | 108            | 105            | 114            | 104            |
| p-Terphenyl-d14 (surr.)               | 1   | %     | 102            | 141            | 108            | 144            |
|                                       |     |       |                |                |                |                |
| % Moisture                            | 1   | %     | 26             | 37             | 25             | 35             |



NATA



Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.



| Client Sample ID                      |     |       | SS27_5_0.0-0.1 | SS27_6_0.0-0.1 | SS15_1_0.0-0.1 | SS15_2_0.0-0.7 |
|---------------------------------------|-----|-------|----------------|----------------|----------------|----------------|
| Sample Matrix                         |     |       | Soil           | Soil           | Soil           | Soil           |
| Eurofins Sample No.                   |     |       | M22-Ja05283    | M22-Ja05284    | M22-Ja05285    | M22-Ja05286    |
| Date Sampled                          |     |       | Dec 23, 2022   | Dec 25, 2021   | Dec 27, 2022   | Dec 29, 2022   |
| Test/Reference                        | LOR | Unit  |                |                |                |                |
| Polycyclic Aromatic Hydrocarbons      |     |       |                |                |                |                |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | 15             | < 0.5          | 2.8            | 6.4            |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 15             | 0.6            | 3.0            | 6.7            |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 15             | 1.2            | 3.3            | 6.9            |
| Acenaphthene                          | 0.5 | mg/kg | 0.7            | < 0.5          | < 0.5          | < 0.5          |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Anthracene                            | 0.5 | mg/kg | 1.2            | < 0.5          | < 0.5          | 0.6            |
| Benz(a)anthracene                     | 0.5 | mg/kg | 4.2            | < 0.5          | 0.8            | 1.9            |
| Benzo(a)pyrene                        | 0.5 | mg/kg | 10.0           | < 0.5          | 2.0            | 4.8            |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | 18             | < 0.5          | 3.9            | 8.1            |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | 4.6            | < 0.5          | 0.8            | 1.5            |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | 6.5            | < 0.5          | 1.6            | 3.8            |
| Chrysene                              | 0.5 | mg/kg | 6.4            | < 0.5          | 1.3            | 3.0            |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | 1.8            | < 0.5          | < 0.5          | < 0.5          |
| Fluoranthene                          | 0.5 | mg/kg | 14             | < 0.5          | 3.1            | 6.2            |
| Fluorene                              | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | 6.4            | < 0.5          | 1.1            | 2.2            |
| Naphthalene                           | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Phenanthrene                          | 0.5 | mg/kg | 5.2            | < 0.5          | 1.0            | 2.1            |
| Pyrene                                | 0.5 | mg/kg | 13             | < 0.5          | 2.9            | 5.8            |
| Total PAH*                            | 0.5 | mg/kg | 92             | < 0.5          | 18.5           | 40             |
| 2-Fluorobiphenyl (surr.)              | 1   | %     | 109            | 118            | 106            | 136            |
| p-Terphenyl-d14 (surr.)               | 1   | %     | 105            | 116            | 102            | 128            |
| % Moisture                            | 1   | %     | 28             | 32             | 24             | 17             |

| Client Sample ID<br>Sample Matrix     |     |       | SS15_3_0.0-0.1<br>Soil | SS15_4_0.0-0.1<br>Soil | SS15_5_0.0-0.1<br>Soil | SS15_6_0.0-0.1<br>Soil |
|---------------------------------------|-----|-------|------------------------|------------------------|------------------------|------------------------|
| Eurofins Sample No.                   |     |       | M22-Ja05287            | M22-Ja05288            | M22-Ja05289            | M22-Ja05290            |
| Date Sampled                          |     |       | Dec 31, 2022           | Jan 02, 2023           | Jan 04, 2023           | Jan 06, 2023           |
| Test/Reference                        | LOR | Unit  |                        |                        |                        |                        |
| Polycyclic Aromatic Hydrocarbons      |     |       |                        |                        |                        |                        |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | 2.7                    | 25                     | 5.6                    | 3.0                    |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 2.9                    | 25                     | 5.6                    | 3.3                    |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 3.2                    | 25                     | 5.6                    | 3.5                    |
| Acenaphthene                          | 0.5 | mg/kg | < 0.5                  | 1.3                    | < 0.5                  | < 0.5                  |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5                  |
| Anthracene                            | 0.5 | mg/kg | < 0.5                  | 2.4                    | < 0.5                  | < 0.5                  |
| Benz(a)anthracene                     | 0.5 | mg/kg | 0.7                    | 6.2                    | 1.3                    | 0.8                    |
| Benzo(a)pyrene                        | 0.5 | mg/kg | 2.0                    | 17                     | 3.6                    | 2.2                    |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | 3.1                    | 29                     | 7.1                    | 4.1                    |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | 0.7                    | 5.2                    | 1.4                    | 0.9                    |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | 1.6                    | 13                     | 2.5                    | 1.8                    |
| Chrysene                              | 0.5 | mg/kg | 1.1                    | 10                     | 2.1                    | 1.2                    |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | < 0.5                  | 2.1                    | 0.7                    | < 0.5                  |
| Fluoranthene                          | 0.5 | mg/kg | 3.0                    | 26                     | 5.0                    | 3.2                    |
| Fluorene                              | 0.5 | mg/kg | < 0.5                  | 0.5                    | < 0.5                  | < 0.5                  |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | 1.1                    | 8.4                    | 2.1                    | 1.2                    |
| Naphthalene                           | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5                  |



| Client Sample ID<br>Sample Matrix |     |       | SS15_3_0.0-0.1<br>Soil | SS15_4_0.0-0.1<br>Soil | SS15_5_0.0-0.1<br>Soil | SS15_6_0.0-0.1<br>Soil |
|-----------------------------------|-----|-------|------------------------|------------------------|------------------------|------------------------|
| Eurofins Sample No.               |     |       | M22-Ja05287            | M22-Ja05288            | M22-Ja05289            | M22-Ja05290            |
| Date Sampled                      |     |       | Dec 31, 2022           | Jan 02, 2023           | Jan 04, 2023           | Jan 06, 2023           |
| Test/Reference                    | LOR | Unit  |                        |                        |                        |                        |
| Polycyclic Aromatic Hydrocarbons  | ·   |       |                        |                        |                        |                        |
| Phenanthrene                      | 0.5 | mg/kg | 0.9                    | 8.3                    | 1.3                    | 0.9                    |
| Pyrene                            | 0.5 | mg/kg | 2.8                    | 23                     | 4.6                    | 2.9                    |
| Total PAH*                        | 0.5 | mg/kg | 17                     | 152.4                  | 31.7                   | 19.2                   |
| 2-Fluorobiphenyl (surr.)          | 1   | %     | 140                    | 120                    | 124                    | 132                    |
| p-Terphenyl-d14 (surr.)           | 1   | %     | 141                    | 109                    | 130                    | 140                    |
| % Moisture                        | 1   | %     | 14                     | 17                     | 16                     | 16                     |

| Client Sample ID                      |     |       | SS29_1_0.0-0.1 | SS29_2_0.0-0.1 | SS29_3_0.0-0.1 | SS29_4_0.0-0.1 |
|---------------------------------------|-----|-------|----------------|----------------|----------------|----------------|
| Sample Matrix                         |     |       | Soil           | Soil           | Soil           | Soil           |
| Eurofins Sample No.                   |     |       | M22-Ja05291    | M22-Ja05292    | M22-Ja05293    | M22-Ja05294    |
| Date Sampled                          |     |       | Jan 08, 2023   | Jan 10, 2023   | Jan 12, 2023   | Jan 14, 2023   |
| Test/Reference                        | LOR | Unit  |                |                |                |                |
| Polycyclic Aromatic Hydrocarbons      |     |       |                |                |                |                |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | 26             | 1.2            | 6.3            | < 0.5          |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 26             | 1.5            | 6.3            | 0.6            |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 27             | 1.8            | 6.3            | 1.2            |
| Acenaphthene                          | 0.5 | mg/kg | 2.1            | < 0.5          | < 0.5          | < 0.5          |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Anthracene                            | 0.5 | mg/kg | 3.2            | < 0.5          | < 0.5          | < 0.5          |
| Benz(a)anthracene                     | 0.5 | mg/kg | 9.9            | < 0.5          | 1.5            | < 0.5          |
| Benzo(a)pyrene                        | 0.5 | mg/kg | 19             | 0.9            | 4.0            | < 0.5          |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | 35             | 1.9            | 7.7            | < 0.5          |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | 8.3            | < 0.5          | 1.8            | < 0.5          |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | 12             | 0.7            | 2.9            | < 0.5          |
| Chrysene                              | 0.5 | mg/kg | 15             | < 0.5          | 2.3            | < 0.5          |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | < 0.5          | < 0.5          | 0.8            | < 0.5          |
| Fluoranthene                          | 0.5 | mg/kg | 30             | 1.2            | 5.2            | < 0.5          |
| Fluorene                              | 0.5 | mg/kg | 0.7            | < 0.5          | < 0.5          | < 0.5          |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | 12             | 0.8            | 2.5            | < 0.5          |
| Naphthalene                           | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Phenanthrene                          | 0.5 | mg/kg | 9.7            | < 0.5          | 1.7            | < 0.5          |
| Pyrene                                | 0.5 | mg/kg | 27             | 1.1            | 5.1            | < 0.5          |
| Total PAH*                            | 0.5 | mg/kg | 183.9          | 6.6            | 35.5           | < 0.5          |
| 2-Fluorobiphenyl (surr.)              | 1   | %     | 116            | 138            | 133            | 97             |
| p-Terphenyl-d14 (surr.)               | 1   | %     | 118            | 127            | 123            | 135            |
|                                       |     |       |                |                |                |                |
| % Moisture                            | 1   | %     | 29             | 28             | 32             | 31             |



| Client Sample ID<br>Sample Matrix     |     |       | SS29_5_0.0-0.1<br>Soil | SS29_6_0.0-0.1<br>Soil | SW03_0.00.1<br>Soil | QC01<br>Soil |
|---------------------------------------|-----|-------|------------------------|------------------------|---------------------|--------------|
| •                                     |     |       |                        |                        |                     |              |
| Eurofins Sample No.                   |     |       | M22-Ja05295            | M22-Ja05296            | M22-Ja05297         | M22-Ja05298  |
| Date Sampled                          |     |       | Jan 16, 2023           | Jan 18, 2023           | Jan 20, 2023        | Jan 21, 2023 |
| Test/Reference                        | LOR | Unit  |                        |                        |                     |              |
| Polycyclic Aromatic Hydrocarbons      |     |       |                        |                        |                     |              |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | 1.4                    | 5.2                    | < 0.5               | 2.1          |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 1.7                    | 5.2                    | 0.6                 | 2.3          |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 2.0                    | 5.2                    | 1.2                 | 2.6          |
| Acenaphthene                          | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5               | < 0.5        |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5               | < 0.5        |
| Anthracene                            | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5               | < 0.5        |
| Benz(a)anthracene                     | 0.5 | mg/kg | < 0.5                  | 1.2                    | < 0.5               | 0.6          |
| Benzo(a)pyrene                        | 0.5 | mg/kg | 1.1                    | 3.3                    | < 0.5               | 1.5          |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | 1.9                    | 6.2                    | < 0.5               | 2.8          |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | < 0.5                  | 1.4                    | < 0.5               | < 0.5        |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | 0.9                    | 2.7                    | < 0.5               | 1.3          |
| Chrysene                              | 0.5 | mg/kg | 0.6                    | 1.9                    | < 0.5               | 1.0          |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | < 0.5                  | 0.6                    | < 0.5               | < 0.5        |
| Fluoranthene                          | 0.5 | mg/kg | 1.4                    | 4.5                    | < 0.5               | 2.5          |
| Fluorene                              | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5               | < 0.5        |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | 0.6                    | 2.1                    | < 0.5               | 0.7          |
| Naphthalene                           | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5               | < 0.5        |
| Phenanthrene                          | 0.5 | mg/kg | < 0.5                  | 1.5                    | < 0.5               | 0.7          |
| Pyrene                                | 0.5 | mg/kg | 1.3                    | 4.2                    | < 0.5               | 2.3          |
| Total PAH*                            | 0.5 | mg/kg | 7.8                    | 29.6                   | < 0.5               | 13.4         |
| 2-Fluorobiphenyl (surr.)              | 1   | %     | 109                    | 114                    | 109                 | 133          |
| p-Terphenyl-d14 (surr.)               | 1   | %     | 102                    | 113                    | 108                 | 137          |
|                                       |     |       |                        |                        |                     |              |
| % Moisture                            | 1   | %     | 35                     | 29                     | 29                  | 27           |

| Client Sample ID<br>Sample Matrix     |     |       | s1<br>Solid  |
|---------------------------------------|-----|-------|--------------|
| Eurofins Sample No.                   |     |       | M22-Ja05339  |
| Date Sampled                          |     |       | Dec 15, 2022 |
| Test/Reference                        | LOR | Unit  |              |
| Polycyclic Aromatic Hydrocarbons      |     |       |              |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | 140          |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 140          |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 140          |
| Acenaphthene                          | 0.5 | mg/kg | 14           |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5        |
| Anthracene                            | 0.5 | mg/kg | 8.7          |
| Benz(a)anthracene                     | 0.5 | mg/kg | 70           |
| Benzo(a)pyrene                        | 0.5 | mg/kg | 89           |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | 80           |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | 100          |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | 71           |
| Chrysene                              | 0.5 | mg/kg | 79           |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | 18           |
| Fluoranthene                          | 0.5 | mg/kg | 120          |
| Fluorene                              | 0.5 | mg/kg | 5.0          |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | 54           |
| Naphthalene                           | 0.5 | mg/kg | 2.3          |



| Client Sample ID<br>Sample Matrix<br>Eurofins Sample No. |     |       | s1<br>Solid<br>M22-Ja05339 |
|--|-----|-------|----------------------------|
| Date Sampled   |     |       | Dec 15, 2022               |
| Test/Reference   | LOR | Unit  |                            |
| Polycyclic Aromatic Hydrocarbons                         |     |       |                            |
| Phenanthrene   | 0.5 | mg/kg | 57                         |
| Pyrene   | 0.5 | mg/kg | 120                        |
| Total PAH*   | 0.5 | mg/kg | 888                        |
| 2-Fluorobiphenyl (surr.)                                 | 1   | %     | 98                         |
| p-Terphenyl-d14 (surr.)                                  | 1   | %     | 88                         |
|  |     |       |                            |
| % Moisture   | 1   | %     | 5.0                        |



#### Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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 |
|--|--------------|--------------|--------------|
| Polycyclic Aromatic Hydrocarbons                         | Melbourne    | Jan 21, 2022 | 14 Davs      |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | Webbearte    | 001121, 2022 | 14 Duyo      |
| % Moisture   | Melbourne    | Jan 12, 2022 | 14 Davs      |
| - Method: LTM-GEN-7080 Moisture                          |              |              |              |

|        | eurofi  | ns  |                  |                               | Eurofins Environme<br>ABN: 50 005 085 521   | ent Te       | sting /                | Austra                          | lia Pty            | _td                                    |   | Eurofins ARL Pty Ltd<br>ABN: 91 05 0159 898  | Eurofins Environment Testing NZ Limited<br>NZBN: 9429046024954                                  |   |  |
|--------|---|---|------------------|-------------------------------|---|--------------|------------------------|---------------------------------|--------------------|--|---|--|---|---|--|
| web: w | ww.eurofins.com.au<br>EnviroSales@eurofins.com<br>mpany Name: Kleinfelder Australia Pty |   |                  | Testing                       | Melbourne<br>6 Monterey Road<br>Dandenong South VIC 3<br>Phone : +61 3 8564 5000<br>NATA # 1261 Site # 1254 |              | D Lane Cove West NSW 2 |                                 | t NSW 2<br>900 840 |  | Newcastle<br>4/52 Industrial Drive<br>Mayfield East NSW 2304<br>PO Box 60 Wickham 2293<br>Phone : +61 2 4968 8448<br>NATA # 1261 Site # 25079 | Perth<br>46-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7675<br>Phone : 0800 856 450<br>IANZ # 1290 |  |
|        | mpany Name:<br>dress:   | Kleinfelder A<br>Level 1, 95 C<br>South Melbo<br>VIC 3205 | Coventry St      | td (VIC)                      |   |              | R<br>P                 | rder l<br>eport<br>hone:<br>ax: | #:                 | 854503<br>03 9907 6000<br>03 9907 6001 |   | Received:<br>Due:<br>Priority:<br>Contact Name:  | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell                                 | 2 PM  |  |
|        | oject Name:<br>oject ID:  | GLENLYON<br>20220348.00                                   | 01A              |                               |   |              |                        |                                 |                    |  |   | Eurofins Analytical S  | Gervices Manager : H  | arry Bacalis  |  |
|        |   |   | HOLD             | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons  | Moisture Set |                        |                                 |                    |  |   |  |   |   |  |
| Melb   | ourne Laborato  | ory - NATA # 12   | 61 Site # 125    | 54                            |   | Х            | Х                      | Х                               | Х                  |  |   |  |   |   |  |
|        |   | - NATA # 1261   |                  |                               |   |              |                        |                                 |                    |  |   |  |   |   |  |
|        |   | y - NATA # 1261   |                  |                               |   |              |                        |                                 |                    |  |   |  |   |   |  |
|        |   | / - NATA # 1261   |                  | ,                             |   |              |                        |                                 |                    |  |   |  |   |   |  |
|        | rnal Laboratory - r   | NATA # 2377 Sit<br>,                                      | le # 23/0        |                               |   | -            |                        | +                               |                    |  |   |  |   |   |  |
| No     | Sample ID   | Sample Date   | Sampling<br>Time | Matrix                        | LAB ID  |              |                        |                                 |                    |  |   |  |   |   |  |
| 1      | SS27_1_0.0-<br>0.1  | Dec 15, 2022  |                  | Soil                          | M22-Ja05279   |              |                        | х                               | x                  |  |   |  |   |   |  |
| 2      | SS27_2_0.0-<br>0.1  | Dec 17, 2022  |                  | Soil                          | M22-Ja05280   |              |                        | x                               | x                  |  |   |  |   |   |  |
| 3      | SS27_3_0.0-<br>0.1  | Dec 19, 2022  |                  | Soil                          | M22-Ja05281   |              |                        | х                               | x                  |  |   |  |   |   |  |
| 4      | SS27_4_0.0-<br>0.1  | Dec 21, 2022  |                  | Soil                          | M22-Ja05282   |              |                        | x                               | х                  |  |   |  |   |   |  |
| 5      | SS27_5_0.0-<br>0.1  | Dec 23, 2022  |                  | Soil                          | M22-Ja05283   |              |                        | x                               | x                  |  |   |  |   |   |  |
|        | SS27_6_0.0-   | Dec 25, 2021  | 1                | Soil                          | M22-Ja05284   | 1            | 1                      | X                               | X                  |  |   |  |   |   |  |

|          | eurofi                                      | Eurofins Environme<br>ABN: 50 005 085 521                 | ent Te          | sting /   | Austra   | lia Pty L                     | .td                              |   | Eurofins ARL Pty Ltd<br>ABN: 91 05 0159 898  | Eurofins Environment Testing NZ Limited<br>NZBN: 9429046024954                                  |   |   |              |
|----------|---|---|-----------------|---|--|-------------------------------|----------------------------------|---|--|---|---|---|--------------|
| web: w   | www.eurofins.com.au<br>EnviroSales@eurofins | Envi  | ronment Testing | Melbourne<br>6 Monterey Road<br>Dandenong South VIC 3<br>Phone : +61 3 8564 5000<br>NATA # 1261 Site # 125- | nterey Road Unit F3, Building F<br>lenong South VIC 3175 16 Mars Road I<br>e : +61 3 8564 5000 Lane Cove West NSW 2066 I |                               | NATA # 1261 Site # 20794         | Newcastle<br>4/52 Industrial Drive<br>Mayfield East NSW 2304<br>PO Box 60 Wickham 2293<br>Phone : +61 2 4968 8448<br>NATA # 1261 Site # 25079 | Perth<br>46-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7675<br>Phone : 0800 856 450<br>IANZ # 1290 |   |              |
|          | ompany Name:<br>Idress:                     | Kleinfelder A<br>Level 1, 95 C<br>South Melbo<br>VIC 3205 | -               |   |  | R<br>Pl                       | rder M<br>eport<br>none:<br>ax:  | #:  | 854503<br>03 9907 6000<br>03 9907 6001   |   | Received:<br>Due:<br>Priority:<br>Contact Name:   | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell | 2 PM         |
|          | oject Name:<br>oject ID:                    | GLENLYON<br>20220348.00                                   | 01A             |   |  |                               |                                  |   |  |   | Eurofins Analytical S   | ervices Manager : H   | arry Bacalis |
|          |   | Sa  | mple Detail     |   | HOLD   | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Moisture Set  |  |   |   |   |              |
| Mell     | bourne Laborate                             | ory - NATA # 12   | 61 Site # 1254  |   | Х  | X                             | Х                                | х   |  |   |   |   |              |
| Syd      | ney Laboratory                              | - NATA # 1261 \$  | Site # 18217    |   |  |                               |                                  |   |  |   |   |   |              |
|          |   | y - NATA # 1261   |                 |   |  |                               |                                  |   |  |   |   |   |              |
|          |   | / - NATA # 1261   |                 |   |  |                               |                                  | $\left  - \right $  |  |   |   |   |              |
|          |   | NATA # 2377 Sit<br>,                                      | e # 2370        |   |  |                               | <u> </u>                         |   |  |   |   |   |              |
| EXTE     | ernal Laboratory                            | ,   |                 |   |  |                               |                                  |   |  |   |   |   |              |
| 7        | SS15_1_0.0-<br>0.1                          | Dec 27, 2022  | Soil            | M22-Ja05285   |  |                               | x                                | x   |  |   |   |   |              |
| 8        | SS15_2_0.0-<br>0.1                          | Dec 29, 2022  | Soil            | M22-Ja05286   |  |                               | х                                | x   |  |   |   |   |              |
| 9        | SS15_3_0.0-<br>0.1                          | Dec 31, 2022  | Soil            | M22-Ja05287   |  |                               | x                                | x   |  |   |   |   |              |
| 10       | SS15_4_0.0-<br>0.1                          | Jan 02, 2023  | Soil            | M22-Ja05288   |  |                               | х                                | x   |  |   |   |   |              |
| 11<br>12 | SS15_5_0.0-<br>0.1<br>SS15_6_0.0-           | Jan 04, 2023<br>Jan 06, 2023                              | Soil            | M22-Ja05289<br>M22-Ja05290  |  |                               | X                                | X   |  |   |   |   |              |
|          | 0.1   | Jan 00, 2023  | 3011            | 10122-Ja05290   |  |                               | Х                                | Х   |  |   |   |   |              |

|      | eurofi                                     | ns  |            | Eurofins Environme<br>ABN: 50 005 085 521<br>Melbourne                                       |   | sting /                       | Austra                           | lia Pty L             | Brisbane   | Newcastle  | Eurofins ARL Pty Ltd<br>ABN: 91 05 0159 898<br>Perth  | Eurofins Environment Testing NZ Limited           NZBN: 9429046024954           Auckland         Christchurch |   |  |  |
|------|--|---|------------|--|---|-------------------------------|----------------------------------|-----------------------|--|--|---|---|---|--|--|
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|      | mpany Name:<br>dress:                      | Kleinfelder Australia Pt<br>Level 1, 95 Coventry S<br>South Melbourne<br>VIC 3205 |            |  |   | R                             | rder I<br>eport<br>none:<br>ax:  | #:                    | 854503<br>03 9907 6000<br>03 9907 6001   |  | Received:<br>Due:<br>Priority:<br>Contact Name:   | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell   | 2 PM  |  |  |
|      | oject Name:<br>oject ID:                   | GLENLYON<br>20220348.001A   |            |  |   |                               |                                  |                       |  |  | Eurofins Analytical S   | ervices Manager : H   | arry Bacalis  |  |  |
|      |  | Sample Deta   | ail        |  | HOLD  | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Moisture Set          |  |  |   |   |   |  |  |
| Melk | ourne Laborato                             | ory - NATA # 1261 Site # '  | 1254       |  | Х   | Х                             | Х                                | Х                     |  |  |   |   |   |  |  |
| Sydr | ey Laboratory                              | - NATA # 1261 Site # 182  | 17         |  |   |                               |                                  |                       |  |  |   |   |   |  |  |
| Bris | pane Laboratory                            | / - NATA # 1261 Site # 20   | 794        |  |   |                               |                                  |                       |  |  |   |   |   |  |  |
|      |  | - NATA # 1261 Site # 25   | 079        |  |   |                               |                                  |                       |  |  |   |   |   |  |  |
|      |  | IATA # 2377 Site # 2370   |            |  |   | <u> </u>                      |                                  |                       |  |  |   |   |   |  |  |
|      | rnal Laboratory                            |   |            |  |   |                               | <u> </u>                         |                       |  |  |   |   |   |  |  |
|      | SS29_1_0.0-<br>0.1                         | Jan 08, 2023  | Soil       | M22-Ja05291  |   |                               | х                                | x                     |  |  |   |   |   |  |  |
|      | SS29_2_0.0-<br>0.1                         | Jan 10, 2023  | Soil       | M22-Ja05292  |   |                               | х                                | х                     |  |  |   |   |   |  |  |
| 15   | SS29_3_0.0-<br>0.1                         | Jan 12, 2023  | Soil       | M22-Ja05293  |   |                               | х                                | х                     |  |  |   |   |   |  |  |
|      | SS29_4_0.0-<br>0.1                         | Jan 14, 2023  | Soil       | M22-Ja05294  |   |                               | х                                | x                     |  |  |   |   |   |  |  |
|      | SS29_5_0.0-<br>0.1                         | Jan 16, 2023  | Soil       | M22-Ja05295  |   |                               | х                                | x                     |  |  |   |   |   |  |  |
| 18   | SS29_6_0.0-<br>0.1                         | Jan 18, 2023  | Soil       | M22-Ja05296  |   |                               | х                                | х                     |  |  |   |   |   |  |  |
| -    |  | Jan 20, 2023  | Soil       | M22-Ja05297  |   |                               | Х                                | х                     |  |  |   |   |   |  |  |

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|--------|--|---|-----------------|---|---|-------------------------------|----------------------------------|---|--|---|---|---|--------------|--|--|
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|        | mpany Name:<br>dress:                      | Kleinfelder A<br>Level 1, 95 C<br>South Melbo<br>VIC 3205 |                 |   |   | R                             | rder N<br>eport<br>none:<br>ax:  | #:  | 854503<br>03 9907 6000<br>03 9907 6001   |   | Received:<br>Due:<br>Priority:<br>Contact Name:   | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell | ? PM         |  |  |
|        | oject Name:<br>oject ID:                   | GLENLYON<br>20220348.00                                   | 1A              |   |   |                               |                                  |   |  |   | Eurofins Analytical S   | ervices Manager : Ha  | arry Bacalis |  |  |
|        |  | Sa  | mple Detail     |   | HOLD  | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Moisture Set  |  |   |   |   |              |  |  |
| Melk   | ourne Laborate                             | ory - NATA # 12   | 61 Site # 1254  |   | Х   | Х                             | Х                                | х   |  |   |   |   |              |  |  |
|        |  | - NATA # 1261 \$  |                 |   |   |                               |                                  |   |  |   |   |   |              |  |  |
|        |  | y - NATA # 1261   |                 |   |   |                               |                                  |   |  |   |   |   |              |  |  |
|        |  | <u>/ - NATA # 1261</u>                                    |                 |   |   |                               | <u> </u>                         |   |  |   |   |   |              |  |  |
|        |  | NATA # 2377 Sit   | e # 23/U        |   |   |                               |                                  |   |  |   |   |   |              |  |  |
| Exte   | rnal Laboratory                            |   |                 |   |   |                               |                                  |   |  |   |   |   |              |  |  |
| 20     | QC01                                       | Jan 21, 2023  | Soil            | M22-Ja05298   |   |                               | х                                | x   |  |   |   |   |              |  |  |
| 21     | QC03                                       | Jan 22, 2023  | Soil            | M22-Ja05299   | x   |                               |                                  |   |  |   |   |   |              |  |  |
| 22     | QC05                                       | Jan 23, 2023  | Water           | M22-Ja05300   |   |                               | х                                |   |  |   |   |   |              |  |  |
| 23     | SS27_1_0.4-<br>0.5                         | Dec 16, 2022  | Soil            | M22-Ja05301   | x   |                               |                                  |   |  |   |   |   |              |  |  |
| 24     | SS27_2_0.4-<br>0.5                         | Dec 18, 2022  | Soil            | M22-Ja05302   | x   |                               |                                  |   |  |   |   |   |              |  |  |
| 25     | SS27_3_0.4-<br>0.5                         | Dec 20, 2022  | Soil            | M22-Ja05303   | х   |                               |                                  |   |  |   |   |   |              |  |  |
| 26     | SS27_4_0.4-<br>0.5                         | Dec 22, 2022  | Soil            | M22-Ja05304   | х   |                               |                                  |   |  |   |   |   |              |  |  |

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|        | mpany Name:<br>dress:                      | Kleinfelder Australia Pty Lt<br>Level 1, 95 Coventry St<br>South Melbourne<br>VIC 3205 | d (VIC)   |  |   | R(<br>Pl                      | rder M<br>eport<br>none:<br>ax:   | #:   | 854503<br>03 9907 6000<br>03 9907 6001  |   | Received:<br>Due:<br>Priority:<br>Contact Name:   | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell | PM           |  |
|        | oject Name:<br>oject ID:                   | GLENLYON<br>20220348.001A  |   |  |   |                               |   |  |   |   | Eurofins Analytical S   | ervices Manager : Ha  | arry Bacalis |  |
|        |  | Sample Detail  |   |  | HOLD  | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons  | Moisture Set   |   |   |   |   |              |  |
| Melb   | ourne Laborato                             | ory - NATA # 1261 Site # 125   | 4   |  | Х   | Х                             | Х   | х  |   |   |   |   |              |  |
| Sydr   | ney Laboratory                             | - NATA # 1261 Site # 18217   |   |  |   |                               |   |  |   |   |   |   |              |  |
|        |  | y - NATA # 1261 Site # 20794   |   |  |   |                               |   |  |   |   |   |   |              |  |
|        |  | / - NATA # 1261 Site # 25079   |   |  |   |                               |   |  |   |   |   |   |              |  |
|        |  | NATA # 2377 Site # 2370  |   |  |   |                               |   |  |   |   |   |   |              |  |
| 27     | rnal Laboratory<br>SS27_5_0.4-<br>0.5      | Dec 24, 2022   | Soil  | M22-Ja05305  | x   |                               |   |  |   |   |   |   |              |  |
| 28     | SS27_6_0.4-<br>0.5                         | Dec 26, 2022   | Soil  | M22-Ja05306  | х   |                               |   |  |   |   |   |   |              |  |
| 29     | SS15_1_0.3-<br>0.4                         | Dec 28, 2022   | Soil  | M22-Ja05307  | х   |                               |   |  |   |   |   |   |              |  |
| 30     | SS15_2_0.3-<br>0.4                         | Dec 30, 2022   | Soil  | M22-Ja05308  | х   |                               |   |  |   |   |   |   |              |  |
|        | SS15_3_0.3-<br>0.4                         | Jan 01, 2023   | Soil  | M22-Ja05309  | х   |                               |   |  |   |   |   |   |              |  |
|        | SS15_4_0.3-<br>0.4                         |  | Soil  | M22-Ja05310  | x   |                               |   |  |   |   |   |   |              |  |
| 33     | SS15_5_0.3-                                | Jan 05, 2023   | Soil  | M22-Ja05311  | Х   |                               |   |  |   |   |   |   |              |  |

| web: w | Environment Testing      |                         | Eurofins Environme           ABN: 50 005 085 521           Melbourne           6 Monterey Road           Dandenong South VIC 3'           Phone : +61 3 8564 5000           NATA # 1261 Site # 1254 | S<br>U<br>175 1(<br>La<br>I P | ydney<br>nit F3, E<br>6 Mars I<br>ane Cov<br>hone : 4 | Building<br>Road<br>re West<br>61 2 99 | F<br>NSW 2                       | Brisbane<br>1/21 Smallwood Place<br>Murarrie QLD 4172<br>066 Phone : +61 7 3902 4600<br>NATA # 1261 Site # 20794 |  | Eurofins ARL Pty Ltd<br>ABN: 91 05 0159 898<br>Perth<br>46-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | Eurofins Environment<br>NZBN: 9429046024954<br>Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | t Testing NZ Limited<br>Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7675<br>Phone : 0800 856 450<br>IANZ # 1290 |              |
|--------|--------------------------|-------------------------|---|-------------------------------|---|--|----------------------------------|--|--|---|--|---|--------------|
| Co     | ompany Name:<br>Idress:  |                         | ,   |                               |   | R                                      | rder f<br>eport<br>none:<br>ax:  | No.:<br>#:   | 854503<br>03 9907 6000<br>03 9907 6001 | NATA # 1261 Site # 25079  | Received:<br>Due:<br>Priority:<br>Contact Name:  | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell   | PM           |
|        | oject Name:<br>oject ID: | GLENLYON<br>20220348.00 | 01A   |                               |   |  |                                  |  |  |   | Eurofins Analytical S  | ervices Manager : Ha  | arry Bacalis |
|        |                          | Sa                      | mple Detail   |                               | HOLD  | Sample preparation - crushing          | Polycyclic Aromatic Hydrocarbons | Moisture Set   |  |   |  |   |              |
| Mell   | bourne Laborat           | ory - NATA # 12         | 61 Site # 1254  |                               | Х   | Х                                      | Х                                | х  |  |   |  |   |              |
|        |                          | - NATA # 1261           |   |                               |   |  |                                  |  |  |   |  |   |              |
|        |                          | y - NATA # 1261         |   |                               |   |  |                                  |  |  |   |  |   |              |
|        |                          | y - NATA # 1261         |   |                               |   |  |                                  |  |  |   |  |   |              |
|        | ernal Laboratory - I     | NATA # 2377 Sit         | le # 23/U   |                               |   |  |                                  |  |  |   |  |   |              |
|        | 0.4                      |                         |   |                               |   |  |                                  |  |  |   |  |   |              |
| 34     | SS15_6_0.3-<br>0.4       | Jan 07, 2023            | Soil  | M22-Ja05312                   | х   |  |                                  |  |  |   |  |   |              |
| 35     | SS29_1_0.4-<br>0.5       | Jan 09, 2023            | Soil  | M22-Ja05313                   | х   |  |                                  |  |  |   |  |   |              |
| 36     | SS29_2_0.4-<br>0.5       | Jan 11, 2023            | Soil  | M22-Ja05314                   | х   |  |                                  |  |  |   |  |   |              |
| 37     | SS29_3_0.4-<br>0.5       | Jan 13, 2023            | Soil  | M22-Ja05315                   | х   |  |                                  |  |  |   |  |   |              |
| 38     | SS29_4_0.4-<br>0.5       | Jan 15, 2023            | Soil  | M22-Ja05316                   | Х   |  |                                  |  |  |   |  |   |              |
| 39     | SS29_5_0.4-<br>0.5       | Jan 17, 2023            | Soil  | M22-Ja05317                   | Х   |  |                                  |  |  |   |  |   |              |

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|--|---|----------------|---------|---|---------------------|-------------------------------|----------------------------------|--------------|--|---|--|---|---|
| web: www.eurofins.com.au<br>email: EnviroSales@eurofins. | Envi  | ronment        | Testing | Melbourne<br>6 Monterey Road<br>Dandenong South VIC 3<br>Phone : +61 3 8564 500<br>NATA # 1261 Site # 125 | 175 1<br>0 L<br>4 P | 6 Mars<br>ane Co<br>hone : ·  | ve West<br>+61 2 9               |              |  |   | Perth<br>46-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7674<br>Phone : 0800 856 450<br>IANZ # 1290 |
| Company Name:<br>Address:                                | Kleinfelder A<br>Level 1, 95 C<br>South Melbo<br>VIC 3205 |                | d (VIC) |   |                     | R<br>P                        | rder I<br>eport<br>hone:<br>ax:  | #:           | 854503<br>03 9907 6000<br>03 9907 6001 |   | Received:<br>Due:<br>Priority:<br>Contact Name:  | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell                                 | 2 PM  |
| Project Name:<br>Project ID:                             | GLENLYON<br>20220348.00                                   | )1A            |         |   |                     |                               |                                  |              |  |   | Eurofins Analytical S  | ervices Manager : H   | arry Bacalis  |
|  | Sa  | mple Detail    |         |   | HOLD                | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Moisture Set |  |   |  |   |   |
| Melbourne Laborato                                       | ory - NATA # 12   | 61 Site # 1254 | 4       |   | Х                   | Х                             | Х                                | Х            |  |   |  |   |   |
| Sydney Laboratory -                                      | NATA # 1261   | Site # 18217   |         |   |                     |                               |                                  |              |  |   |  |   |   |
| Brisbane Laboratory                                      | / - NATA # 126  | I Site # 20794 |         |   |                     |                               |                                  |              |  |   |  |   |   |
| Mayfield Laboratory                                      | - NATA # 1261   | Site # 25079   |         |   |                     |                               |                                  |              |  |   |  |   |   |
| Perth Laboratory - N                                     | IATA # 2377 Sit   | te # 2370      |         |   |                     |                               |                                  | <u> </u>     |  |   |  |   |   |
| External Laboratory                                      |   |                |         |   |                     |                               |                                  |              |  |   |  |   |   |
| 40 SS29_6_0.4-<br>0.5                                    | Jan 19, 2023  |                | Soil    | M22-Ja05318   | x                   |                               |                                  |              |  |   |  |   |   |
|  | Dec 15, 2022  |                | Solid   | M22-Ja05339   |                     | X                             | X                                | Х            |  |   |  |   |   |
| Test Counts  |   |                |         |   | 19                  | 1                             | 22                               | 21           |  |   |  |   |   |



#### Internal Quality Control Review and Glossary

#### General

- 1. 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.
- 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- 9. 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.

#### Units

| •  |                                    |  |
|--|------------------------------------|--|
| mg/kg: milligrams per kilogram           | mg/L: milligrams per litre         | μg/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

| Termo            |  |
|------------------|--|
| 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 5.4  |
| СР               | 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   |
| WA DWER          | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA  |
|                  |  |

#### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

#### **QC Data General Comments**

- 1. 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.
- 2. 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.
- 3. 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.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



#### **Quality Control Results**

| Те                            | st            |              | Units | Result 1 |  | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
|-------------------------------|---------------|--------------|-------|----------|--|----------------------|----------------|--------------------|
| Method Blank                  |               |              |       |          |  |                      |                |                    |
| Polycyclic Aromatic Hydrocarl | oons          |              |       |          |  |                      |                |                    |
| 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           |                    |
| LCS - % Recovery              |               |              |       |          |  |                      |                |                    |
| Polycyclic Aromatic Hydrocarl | oons          |              |       |          |  |                      |                |                    |
| Acenaphthene                  |               |              | %     | 85       |  | 70-130               | Pass           |                    |
| Acenaphthylene                |               |              | %     | 86       |  | 70-130               | Pass           |                    |
| Anthracene                    |               |              | %     | 106      |  | 70-130               | Pass           |                    |
| Benz(a)anthracene             |               |              | %     | 87       |  | 70-130               | Pass           |                    |
| Benzo(a)pyrene                |               |              | %     | 105      |  | 70-130               | Pass           |                    |
| Benzo(b&j)fluoranthene        |               |              | %     | 121      |  | 70-130               | Pass           |                    |
| Benzo(g.h.i)perylene          |               |              | %     | 82       |  | 70-130               | Pass           |                    |
| Benzo(k)fluoranthene          |               |              | %     | 101      |  | 70-130               | Pass           |                    |
| Chrysene                      |               |              | %     | 104      |  | 70-130               | Pass           |                    |
| Dibenz(a.h)anthracene         |               |              | %     | 104      |  | 70-130               | Pass           |                    |
| Fluoranthene                  |               |              | %     | 94       |  | 70-130               | Pass           |                    |
| Fluorene                      |               |              | %     | 104      |  | 70-130               | Pass           |                    |
| Indeno(1.2.3-cd)pyrene        |               |              | %     | 85       |  | 70-130               | Pass           |                    |
| Naphthalene                   |               |              | %     | 73       |  | 70-130               | Pass           |                    |
| Phenanthrene                  |               |              | %     | 116      |  | 70-130               | Pass           |                    |
| Pyrene                        |               |              | %     | 94       |  | 70-130               | Pass           |                    |
| Test                          | Lab Sample ID | QA<br>Source | Units | Result 1 |  | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
| Spike - % Recovery            |               |              |       |          |  |                      |                |                    |
| Polycyclic Aromatic Hydrocarl |               | 1            |       | Result 1 |  |                      |                |                    |
| Acenaphthene                  | M22-Ja05285   | CP           | %     | 100      |  | 70-130               | Pass           |                    |
| Acenaphthylene                | M22-Ja05285   | CP           | %     | 99       |  | 70-130               | Pass           |                    |
| Anthracene                    | M22-Ja05285   | CP           | %     | 115      |  | 70-130               | Pass           |                    |
| Benz(a)anthracene             | M22-Ja05285   | CP           | %     | 71       |  | 70-130               | Pass           |                    |
| Benzo(a)pyrene                | M22-Ja05285   | CP           | %     | 87       |  | 70-130               | Pass           |                    |
| Benzo(b&j)fluoranthene        | M22-Ja05285   | CP           | %     | 101      |  | 70-130               | Pass           |                    |
| Benzo(g.h.i)perylene          | M22-Ja05285   | CP           | %     | 104      |  | 70-130               | Pass           |                    |
| Benzo(k)fluoranthene          | M22-Ja05285   | CP           | %     | 120      |  | 70-130               | Pass           |                    |
| Chrysene                      | M22-Ja05285   | CP           | %     | 87       |  | 70-130               | Pass           |                    |
| Dibenz(a.h)anthracene         | M22-Ja05285   | CP           | %     | 87       |  | 70-130               | Pass           |                    |
| Fluoranthene                  | M22-Ja05285   | CP           | %     | 108      |  | 70-130               | Pass           |                    |
| Fluorene                      | M22-Ja05285   | CP           | %     | 122      |  | 70-130               | Pass           |                    |



| Test  | Lab Sample ID   | QA<br>Source   | Units  | Result 1  |   |   | Acceptance<br>Limits  | Pass<br>Limits   | Qualifying<br>Code |
|---|---|--|--|---|---|---|---|--|--------------------|
| Indeno(1.2.3-cd)pyrene  | M22-Ja05285   | CP   | %  | 106   |   |   | 70-130  | Pass   |                    |
| Naphthalene   | M22-Ja05285   | CP   | %  | 81  |   |   | 70-130  | Pass   |                    |
| Phenanthrene  | M22-Ja05285   | CP   | %  | 91  |   |   | 70-130  | Pass   |                    |
| Pyrene  | M22-Ja05285   | CP   | %  | 107   |   |   | 70-130  | Pass   |                    |
| Spike - % Recovery  |   |  |  | 1   |   |   | -   |  |                    |
| Polycyclic Aromatic Hydrocarbon   | s   |  |  | Result 1  |   |   |   |  |                    |
| Acenaphthene  | M22-Ja05295   | CP   | %  | 93  |   |   | 70-130  | Pass   |                    |
| Acenaphthylene  | M22-Ja05295   | CP   | %  | 94  |   |   | 70-130  | Pass   |                    |
| Anthracene  | M22-Ja05295   | CP   | %  | 107   |   |   | 70-130  | Pass   |                    |
| Benz(a)anthracene   | M22-Ja05295   | CP   | %  | 98  |   |   | 70-130  | Pass   |                    |
| Benzo(a)pyrene  | M22-Ja05295   | CP   | %  | 120   |   |   | 70-130  | Pass   |                    |
| Benzo(b&j)fluoranthene  | M22-Ja05295   | CP   | %  | 95  |   |   | 70-130  | Pass   |                    |
| Benzo(g.h.i)perylene  | M22-Ja05295   | CP   | %  | 101   |   |   | 70-130  | Pass   |                    |
| Benzo(k)fluoranthene  | M22-Ja05295   | CP   | %  | 109   |   |   | 70-130  | Pass   |                    |
| Chrysene  | M22-Ja05295   | CP   | %  | 79  |   |   | 70-130  | Pass   |                    |
| Dibenz(a.h)anthracene   | M22-Ja05295   | CP   | %  | 83  |   |   | 70-130  | Pass   |                    |
| Fluoranthene  | M22-Ja05295   | CP   | %  | 92  |   |   | 70-130  | Pass   |                    |
| Fluorene  | M22-Ja05295   | CP   | %  | 115   |   |   | 70-130  | Pass   |                    |
| Indeno(1.2.3-cd)pyrene  | M22-Ja05295   | CP   | %  | 101   |   |   | 70-130  | Pass   |                    |
| Naphthalene   | M22-Ja05295   | CP   | %  | 78  |   |   | 70-130  | Pass   |                    |
| Phenanthrene  | M22-Ja05295   | CP   | %  | 87  |   |   | 70-130  | Pass   |                    |
| Pyrene  | M22-Ja05295   | CP   | %  | 94  |   |   | 70-130  | Pass   |                    |
| Test  | Lab Sample ID   | QA<br>Source   | Units  | Result 1  |   |   | Acceptance<br>Limits  | Pass<br>Limits   | Qualifying<br>Code |
| Duplicate   |   |  |  | 1   | 11  |   | 1   |  |                    |
| •   |   |  |  | Result 1  | Result 2  | RPD   |   |  |                    |
| % Moisture  | M22-Ja05279   | CP   | %  | 26  | 26  | 1.0   | 30%   | Pass   |                    |
|   |   |  |  |   |   |   |   |  |                    |
| Duplicate   |   |  |  |   |   |   |   |  |                    |
| Duplicate<br>Polycyclic Aromatic Hydrocarbon  | s   |  |  | Result 1  | Result 2  | RPD   |   |  |                    |
|   | M22-Ja05284   | СР   | mg/kg  | Result 1<br>< 0.5   | Result 2<br>< 0.5   | RPD<br><1   | 30%   | Pass   |                    |
| Polycyclic Aromatic Hydrocarbon   |   | CP<br>CP   | mg/kg<br>mg/kg   |   |   |   | 30%<br>30%  | Pass<br>Pass   |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene   | M22-Ja05284   | -  |  | < 0.5   | < 0.5   | <1  |   |  |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene   | M22-Ja05284<br>M22-Ja05284  | СР   | mg/kg  | < 0.5<br>< 0.5  | < 0.5<br>< 0.5  | <1<br><1  | 30%   | Pass   |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene   | M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284   | CP<br>CP   | mg/kg<br>mg/kg   | < 0.5<br>< 0.5<br>< 0.5   | < 0.5<br>< 0.5<br>< 0.5   | <1<br><1<br><1  | 30%<br>30%  | Pass<br>Pass   |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene  | M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284  | CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5  | <1<br><1<br><1<br><1  | 30%<br>30%<br>30%   | Pass<br>Pass<br>Pass   |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene  | M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284   | CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1  | 30%<br>30%<br>30%<br>30%  | Pass<br>Pass<br>Pass<br>Pass                                 |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene  | M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284  | CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1  | 30%<br>30%<br>30%<br>30%<br>30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass                         |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene  | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5  | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1                              | 30%<br>30%<br>30%<br>30%<br>30%<br>30%  | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass         |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene  | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1                  | 30%           30%           30%           30%           30%           30%           30%           30%           30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass                 |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene  | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5  | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1      | 30%           30%           30%           30%           30%           30%           30%           30%           30%           30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass         |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene   | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                     | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | < 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benzo(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene  | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg  | $ \begin{array}{r} < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ < 0.5 \\ \end{array} $   | < 0.5<br>< 0.5  | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benzo(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluorene  | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                            | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | < 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%             | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene   | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                   | < 0.5 $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                           | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene  | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg          | < 0.5 $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene  | M22-Ja05284           M22-Ja05284 | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                   | < 0.5 $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           30% | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(b,fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene  | M22-Ja05284           M22-Ja05284 | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg          | < 0.5 $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           30% | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(b,fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene  | M22-Ja05284           M22-Ja05284 | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg          | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           30% | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benzo(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene<br>Duplicate  | M22-Ja05284           M22-Ja05284 | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene<br>Duplicate   | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene<br>Duplicate   | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene<br>Duplicate<br>Moisture<br>Duplicate<br>Polycyclic Aromatic Hydrocarbon<br>Acenaphthene | M22-Ja05284   | CP           CP | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5  | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene<br>Duplicate<br>Moisture<br>Duplicate<br>Polycyclic Aromatic Hydrocarbon<br>Acenaphthene                           | M22-Ja05284                                   | СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5   | < 0.5<br>< 0.5 | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%<br>30%<br>30%<br>30%<br>30%<br>30%<br>30%<br>30%<br>30%<br>30%  | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Polycyclic Aromatic Hydrocarbon<br>Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene<br>Duplicate<br>Moisture<br>Duplicate<br>Polycyclic Aromatic Hydrocarbon<br>Acenaphthene | M22-Ja05284   | CP              | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5  | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |



| Duplicate                    |             |    |       |          |          |     |     |      |  |
|------------------------------|-------------|----|-------|----------|----------|-----|-----|------|--|
| Polycyclic Aromatic Hydrocar | bons        |    |       | Result 1 | Result 2 | RPD |     |      |  |
| Benzo(b&j)fluoranthene       | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Benzo(g.h.i)perylene         | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Benzo(k)fluoranthene         | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Chrysene                     | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Dibenz(a.h)anthracene        | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Fluoranthene                 | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Fluorene                     | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Indeno(1.2.3-cd)pyrene       | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Naphthalene                  | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Phenanthrene                 | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Pyrene                       | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |



#### Comments

This report has been revised V2 following repeat analysis. PAH results for sample Ja05286 and Ja05291 have now been replaced by the repeat results.

| Sample Integrity  |     |
|---|-----|
| Custody Seals Intact (if used)  | N/A |
| Attempt to Chill was evident  | Yes |
| Sample correctly preserved  | Yes |
| Appropriate sample containers have been used                            | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime                                     | Yes |
| Some samples have been subcontracted                                    | No  |

#### **Qualifier Codes/Comments**

#### Code Description Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

#### Authorised by:

Savini Suduweli Joseph Edouard Analytical Services Manager Senior Analyst-Organic (VIC)

Glenn Jackson General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Kleinfelder Australia Pty Ltd (VIC) Level 1, 95 Coventry St South Melbourne VIC 3205

Attention:

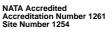
Jeremy McDonnell

Report Project name Project ID Received Date 854503-S GLENLYON 20220348.001A Jan 11, 2022

| Client Sample ID                      |     |       | SS27_1_0.0-0.1 | SS27_2_0.0-0.1 | SS27_3_0.0-0.1 | SS27_4_0.0-0.1 |
|---------------------------------------|-----|-------|----------------|----------------|----------------|----------------|
| Sample Matrix                         |     |       | Soil           | Soil           | Soil           | Soil           |
| Eurofins Sample No.                   |     |       | M22-Ja05279    | M22-Ja05280    | M22-Ja05281    | M22-Ja05282    |
| Date Sampled                          |     |       | Dec 15, 2022   | Dec 17, 2022   | Dec 19, 2022   | Dec 21, 2022   |
| Test/Reference                        | LOR | Unit  |                |                |                |                |
| Polycyclic Aromatic Hydrocarbons      |     |       |                |                |                |                |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | < 0.5          | 1.6            | < 0.5          | < 0.5          |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 0.6            | 1.9            | 0.6            | 0.6            |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 1.2            | 2.2            | 1.2            | 1.2            |
| Acenaphthene                          | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Anthracene                            | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Benz(a)anthracene                     | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Benzo(a)pyrene                        | 0.5 | mg/kg | < 0.5          | 1.2            | < 0.5          | < 0.5          |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | < 0.5          | 2.3            | < 0.5          | < 0.5          |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | < 0.5          | 0.9            | < 0.5          | < 0.5          |
| Chrysene                              | 0.5 | mg/kg | < 0.5          | 0.7            | < 0.5          | < 0.5          |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Fluoranthene                          | 0.5 | mg/kg | < 0.5          | 1.5            | < 0.5          | < 0.5          |
| Fluorene                              | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | < 0.5          | 1.0            | < 0.5          | < 0.5          |
| Naphthalene                           | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Phenanthrene                          | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Pyrene                                | 0.5 | mg/kg | < 0.5          | 1.5            | < 0.5          | < 0.5          |
| Total PAH*                            | 0.5 | mg/kg | < 0.5          | 9.1            | < 0.5          | < 0.5          |
| 2-Fluorobiphenyl (surr.)              | 1   | %     | 108            | 105            | 114            | 104            |
| p-Terphenyl-d14 (surr.)               | 1   | %     | 102            | 141            | 108            | 144            |
|                                       |     |       |                |                |                |                |
| % Moisture                            | 1   | %     | 26             | 37             | 25             | 35             |



NATA



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| Client Sample ID                      |     |       | SS27_5_0.0-0.1 | SS27_6_0.0-0.1 | SS15_1_0.0-0.1 | SS15_2_0.0-0.7 |
|---------------------------------------|-----|-------|----------------|----------------|----------------|----------------|
| Sample Matrix                         |     |       | Soil           | Soil           | Soil           | Soil           |
| Eurofins Sample No.                   |     |       | M22-Ja05283    | M22-Ja05284    | M22-Ja05285    | M22-Ja05286    |
| Date Sampled                          |     |       | Dec 23, 2022   | Dec 25, 2021   | Dec 27, 2022   | Dec 29, 2022   |
| Test/Reference                        | LOR | Unit  |                |                |                |                |
| Polycyclic Aromatic Hydrocarbons      |     |       |                |                |                |                |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | 15             | < 0.5          | 2.8            | 9.3            |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 15             | 0.6            | 3.0            | 9.3            |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 15             | 1.2            | 3.3            | 9.3            |
| Acenaphthene                          | 0.5 | mg/kg | 0.7            | < 0.5          | < 0.5          | < 0.5          |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Anthracene                            | 0.5 | mg/kg | 1.2            | < 0.5          | < 0.5          | 0.8            |
| Benz(a)anthracene                     | 0.5 | mg/kg | 4.2            | < 0.5          | 0.8            | 2.8            |
| Benzo(a)pyrene                        | 0.5 | mg/kg | 10.0           | < 0.5          | 2.0            | 6.1            |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | 18             | < 0.5          | 3.9            | 11             |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | 4.6            | < 0.5          | 0.8            | 2.3            |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | 6.5            | < 0.5          | 1.6            | 4.6            |
| Chrysene                              | 0.5 | mg/kg | 6.4            | < 0.5          | 1.3            | 4.4            |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | 1.8            | < 0.5          | < 0.5          | 0.9            |
| Fluoranthene                          | 0.5 | mg/kg | 14             | < 0.5          | 3.1            | 9.4            |
| Fluorene                              | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | 6.4            | < 0.5          | 1.1            | 3.5            |
| Naphthalene                           | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Phenanthrene                          | 0.5 | mg/kg | 5.2            | < 0.5          | 1.0            | 3.4            |
| Pyrene                                | 0.5 | mg/kg | 13             | < 0.5          | 2.9            | 8.6            |
| Total PAH*                            | 0.5 | mg/kg | 92             | < 0.5          | 18.5           | 57.8           |
| 2-Fluorobiphenyl (surr.)              | 1   | %     | 109            | 118            | 106            | 122            |
| p-Terphenyl-d14 (surr.)               | 1   | %     | 105            | 116            | 102            | 122            |
| % Moisture                            | 1   | %     | 28             | 32             | 24             | 17             |

| Client Sample ID<br>Sample Matrix     |     |       | SS15_3_0.0-0.1<br>Soil | SS15_4_0.0-0.1<br>Soil | SS15_5_0.0-0.1<br>Soil | SS15_6_0.0-0.1<br>Soil |
|---------------------------------------|-----|-------|------------------------|------------------------|------------------------|------------------------|
| Eurofins Sample No.                   |     |       | M22-Ja05287            | M22-Ja05288            | M22-Ja05289            | M22-Ja05290            |
| Date Sampled                          |     |       | Dec 31, 2022           | Jan 02, 2023           | Jan 04, 2023           | Jan 06, 2023           |
| Test/Reference                        | LOR | Unit  |                        |                        |                        |                        |
| Polycyclic Aromatic Hydrocarbons      |     |       |                        |                        |                        |                        |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | 2.7                    | 25                     | 5.6                    | 3.0                    |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 2.9                    | 25                     | 5.6                    | 3.3                    |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 3.2                    | 25                     | 5.6                    | 3.5                    |
| Acenaphthene                          | 0.5 | mg/kg | < 0.5                  | 1.3                    | < 0.5                  | < 0.5                  |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5                  |
| Anthracene                            | 0.5 | mg/kg | < 0.5                  | 2.4                    | < 0.5                  | < 0.5                  |
| Benz(a)anthracene                     | 0.5 | mg/kg | 0.7                    | 6.2                    | 1.3                    | 0.8                    |
| Benzo(a)pyrene                        | 0.5 | mg/kg | 2.0                    | 17                     | 3.6                    | 2.2                    |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | 3.1                    | 29                     | 7.1                    | 4.1                    |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | 0.7                    | 5.2                    | 1.4                    | 0.9                    |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | 1.6                    | 13                     | 2.5                    | 1.8                    |
| Chrysene                              | 0.5 | mg/kg | 1.1                    | 10                     | 2.1                    | 1.2                    |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | < 0.5                  | 2.1                    | 0.7                    | < 0.5                  |
| Fluoranthene                          | 0.5 | mg/kg | 3.0                    | 26                     | 5.0                    | 3.2                    |
| Fluorene                              | 0.5 | mg/kg | < 0.5                  | 0.5                    | < 0.5                  | < 0.5                  |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | 1.1                    | 8.4                    | 2.1                    | 1.2                    |
| Naphthalene                           | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5                  | < 0.5                  |



| Client Sample ID<br>Sample Matrix |     |       | SS15_3_0.0-0.1<br>Soil | SS15_4_0.0-0.1<br>Soil | SS15_5_0.0-0.1<br>Soil | SS15_6_0.0-0.1<br>Soil |
|-----------------------------------|-----|-------|------------------------|------------------------|------------------------|------------------------|
| Eurofins Sample No.               |     |       | M22-Ja05287            | M22-Ja05288            | M22-Ja05289            | M22-Ja05290            |
| Date Sampled                      |     |       | Dec 31, 2022           | Jan 02, 2023           | Jan 04, 2023           | Jan 06, 2023           |
| Test/Reference                    | LOR | Unit  |                        |                        |                        |                        |
| Polycyclic Aromatic Hydrocarbons  | ·   |       |                        |                        |                        |                        |
| Phenanthrene                      | 0.5 | mg/kg | 0.9                    | 8.3                    | 1.3                    | 0.9                    |
| Pyrene                            | 0.5 | mg/kg | 2.8                    | 23                     | 4.6                    | 2.9                    |
| Total PAH*                        | 0.5 | mg/kg | 17                     | 152.4                  | 31.7                   | 19.2                   |
| 2-Fluorobiphenyl (surr.)          | 1   | %     | 140                    | 120                    | 124                    | 132                    |
| p-Terphenyl-d14 (surr.)           | 1   | %     | 141                    | 109                    | 130                    | 140                    |
| % Moisture                        | 1   | %     | 14                     | 17                     | 16                     | 16                     |

| Client Sample ID                      |     |       | SS29_1_0.0-0.1 | SS29_2_0.0-0.1 | SS29_3_0.0-0.1 | SS29_4_0.0-0.1 |
|---------------------------------------|-----|-------|----------------|----------------|----------------|----------------|
| Sample Matrix                         |     |       | Soil           | Soil           | Soil           | Soil           |
| Eurofins Sample No.                   |     |       | M22-Ja05291    | M22-Ja05292    | M22-Ja05293    | M22-Ja05294    |
| Date Sampled                          |     |       | Jan 08, 2023   | Jan 10, 2023   | Jan 12, 2023   | Jan 14, 2023   |
| Test/Reference                        | LOR | Unit  |                |                |                |                |
| Polycyclic Aromatic Hydrocarbons      |     |       |                |                |                |                |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | 52             | 1.2            | 6.3            | < 0.5          |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 52             | 1.5            | 6.3            | 0.6            |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 52             | 1.8            | 6.3            | 1.2            |
| Acenaphthene                          | 0.5 | mg/kg | 4.1            | < 0.5          | < 0.5          | < 0.5          |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5          | < 0.5          | < 0.5          | < 0.5          |
| Anthracene                            | 0.5 | mg/kg | 6.8            | < 0.5          | < 0.5          | < 0.5          |
| Benz(a)anthracene                     | 0.5 | mg/kg | 19             | < 0.5          | 1.5            | < 0.5          |
| Benzo(a)pyrene                        | 0.5 | mg/kg | 31             | 0.9            | 4.0            | < 0.5          |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | 61             | 1.9            | 7.7            | < 0.5          |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | 20             | < 0.5          | 1.8            | < 0.5          |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | 14             | 0.7            | 2.9            | < 0.5          |
| Chrysene                              | 0.5 | mg/kg | 27             | < 0.5          | 2.3            | < 0.5          |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | 8.3            | < 0.5          | 0.8            | < 0.5          |
| Fluoranthene                          | 0.5 | mg/kg | 43             | 1.2            | 5.2            | < 0.5          |
| Fluorene                              | 0.5 | mg/kg | 1.7            | < 0.5          | < 0.5          | < 0.5          |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | 26             | 0.8            | 2.5            | < 0.5          |
| Naphthalene                           | 0.5 | mg/kg | 0.8            | < 0.5          | < 0.5          | < 0.5          |
| Phenanthrene                          | 0.5 | mg/kg | 21             | < 0.5          | 1.7            | < 0.5          |
| Pyrene                                | 0.5 | mg/kg | 40             | 1.1            | 5.1            | < 0.5          |
| Total PAH*                            | 0.5 | mg/kg | 323.7          | 6.6            | 35.5           | < 0.5          |
| 2-Fluorobiphenyl (surr.)              | 1   | %     | 131            | 138            | 133            | 97             |
| p-Terphenyl-d14 (surr.)               | 1   | %     | 134            | 127            | 123            | 135            |
| % Moisture                            | 1   | %     | 29             | 28             | 32             | 31             |



| Client Sample ID<br>Sample Matrix     |     |       | SS29_5_0.0-0.1<br>Soil | SS29_6_0.0-0.1<br>Soil | SW03_0.00.1<br>Soil | QC01<br>Soil |
|---------------------------------------|-----|-------|------------------------|------------------------|---------------------|--------------|
| •                                     |     |       |                        |                        |                     |              |
| Eurofins Sample No.                   |     |       | M22-Ja05295            | M22-Ja05296            | M22-Ja05297         | M22-Ja05298  |
| Date Sampled                          |     |       | Jan 16, 2023           | Jan 18, 2023           | Jan 20, 2023        | Jan 21, 2023 |
| Test/Reference                        | LOR | Unit  |                        |                        |                     |              |
| Polycyclic Aromatic Hydrocarbons      |     |       |                        |                        |                     |              |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | 1.4                    | 5.2                    | < 0.5               | 2.1          |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 1.7                    | 5.2                    | 0.6                 | 2.3          |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 2.0                    | 5.2                    | 1.2                 | 2.6          |
| Acenaphthene                          | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5               | < 0.5        |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5               | < 0.5        |
| Anthracene                            | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5               | < 0.5        |
| Benz(a)anthracene                     | 0.5 | mg/kg | < 0.5                  | 1.2                    | < 0.5               | 0.6          |
| Benzo(a)pyrene                        | 0.5 | mg/kg | 1.1                    | 3.3                    | < 0.5               | 1.5          |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | 1.9                    | 6.2                    | < 0.5               | 2.8          |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | < 0.5                  | 1.4                    | < 0.5               | < 0.5        |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | 0.9                    | 2.7                    | < 0.5               | 1.3          |
| Chrysene                              | 0.5 | mg/kg | 0.6                    | 1.9                    | < 0.5               | 1.0          |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | < 0.5                  | 0.6                    | < 0.5               | < 0.5        |
| Fluoranthene                          | 0.5 | mg/kg | 1.4                    | 4.5                    | < 0.5               | 2.5          |
| Fluorene                              | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5               | < 0.5        |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | 0.6                    | 2.1                    | < 0.5               | 0.7          |
| Naphthalene                           | 0.5 | mg/kg | < 0.5                  | < 0.5                  | < 0.5               | < 0.5        |
| Phenanthrene                          | 0.5 | mg/kg | < 0.5                  | 1.5                    | < 0.5               | 0.7          |
| Pyrene                                | 0.5 | mg/kg | 1.3                    | 4.2                    | < 0.5               | 2.3          |
| Total PAH*                            | 0.5 | mg/kg | 7.8                    | 29.6                   | < 0.5               | 13.4         |
| 2-Fluorobiphenyl (surr.)              | 1   | %     | 109                    | 114                    | 109                 | 133          |
| p-Terphenyl-d14 (surr.)               | 1   | %     | 102                    | 113                    | 108                 | 137          |
|                                       |     | _     |                        |                        |                     |              |
| % Moisture                            | 1   | %     | 35                     | 29                     | 29                  | 27           |

| Client Sample ID<br>Sample Matrix     |     |       | s1<br>Solid  |
|---------------------------------------|-----|-------|--------------|
| Eurofins Sample No.                   |     |       | M22-Ja05339  |
| Date Sampled                          |     |       | Dec 15, 2022 |
| Test/Reference                        | LOR | Unit  |              |
| Polycyclic Aromatic Hydrocarbons      |     |       |              |
| Benzo(a)pyrene TEQ (lower bound) *    | 0.5 | mg/kg | 140          |
| Benzo(a)pyrene TEQ (medium bound) *   | 0.5 | mg/kg | 140          |
| Benzo(a)pyrene TEQ (upper bound) *    | 0.5 | mg/kg | 140          |
| Acenaphthene                          | 0.5 | mg/kg | 14           |
| Acenaphthylene                        | 0.5 | mg/kg | < 0.5        |
| Anthracene                            | 0.5 | mg/kg | 8.7          |
| Benz(a)anthracene                     | 0.5 | mg/kg | 70           |
| Benzo(a)pyrene                        | 0.5 | mg/kg | 89           |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.5 | mg/kg | 80           |
| Benzo(g.h.i)perylene                  | 0.5 | mg/kg | 100          |
| Benzo(k)fluoranthene                  | 0.5 | mg/kg | 71           |
| Chrysene                              | 0.5 | mg/kg | 79           |
| Dibenz(a.h)anthracene                 | 0.5 | mg/kg | 18           |
| Fluoranthene                          | 0.5 | mg/kg | 120          |
| Fluorene                              | 0.5 | mg/kg | 5.0          |
| Indeno(1.2.3-cd)pyrene                | 0.5 | mg/kg | 54           |
| Naphthalene                           | 0.5 | mg/kg | 2.3          |



| Client Sample ID<br>Sample Matrix |     |       | s1<br>Solid  |
|-----------------------------------|-----|-------|--------------|
| Eurofins Sample No.               |     |       | M22-Ja05339  |
| Date Sampled                      |     |       | Dec 15, 2022 |
| Test/Reference                    | LOR | Unit  |              |
| Polycyclic Aromatic Hydrocarbons  |     |       |              |
| Phenanthrene                      | 0.5 | mg/kg | 57           |
| Pyrene                            | 0.5 | mg/kg | 120          |
| Total PAH*                        | 0.5 | mg/kg | 888          |
| 2-Fluorobiphenyl (surr.)          | 1   | %     | 98           |
| p-Terphenyl-d14 (surr.)           | 1   | %     | 88           |
| % Moisture                        | 1   | %     | 5.0          |



#### Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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 |
|--|--------------|--------------|--------------|
| Polycyclic Aromatic Hydrocarbons                         | Melbourne    | Jan 14, 2022 | 14 Days      |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water |              |              |              |
| % Moisture   | Melbourne    | Jan 12, 2022 | 14 Days      |
| - Method: LTM-GEN-7080 Moisture                          |              |              |              |

|         | eurofi                       | nc  |               |          | Eurofins Environme<br>ABN: 50 005 085 521   | nt Te                    | sting A                       | ustra                            | lia Pty      | Ltd                                    |   | Eurofins ARL Pty Ltd<br>ABN: 91 05 0159 898  | Eurofins Environment  | t Testing NZ Limited  |
|---------|------------------------------|---|---------------|----------|---|--------------------------|-------------------------------|----------------------------------|--------------|--|---|--|---|---|
| web: wv | ww.eurofins.com.au           | Envi  | ronment       | Testing  | Melbourne<br>6 Monterey Road<br>Dandenong South VIC 3<br>Phone : +61 3 8564 5000<br>NATA # 1261 Site # 1254 | U<br>175 1<br>) L<br>4 P | ane Cov<br>hone : +           | Road<br>re West<br>·61 2 99      |              |  | Newcastle<br>4/52 Industrial Drive<br>Mayfield East NSW 2304<br>PO Box 60 Wickham 2293<br>Phone : +61 2 4968 8448<br>NATA # 1261 Site # 25079 | Perth<br>46-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7675<br>Phone : 0800 856 450<br>IANZ # 1290 |
|         | mpany Name:<br>dress:        | Kleinfelder A<br>Level 1, 95 C<br>South Melbo<br>VIC 3205 | Coventry St   | td (VIC) |   |                          | R                             | rder f<br>eport<br>none:<br>ax:  | #:           | 854503<br>03 9907 6000<br>03 9907 6001 |   | Received:<br>Due:<br>Priority:<br>Contact Name:  | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell                                 | PM  |
|         | oject Name:<br>oject ID:     | GLENLYON<br>20220348.00                                   | 01A           |          |   |                          |                               |                                  |              |  |   | Eurofins Analytical S  | ervices Manager : Ha  | arry Bacalis  |
|         |                              | Sa  | mple Detail   |          |   | HOLD                     | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Moisture Set |  |   |  |   |   |
| Melb    | ourne Laborato               | ory - NATA # 12   | 61 Site # 125 | 54       |   | Х                        | Х                             | х                                | Х            |  |   |  |   |   |
|         |                              | - NATA # 1261 \$  |               |          |   |                          |                               |                                  | <u> </u>     |  |   |  |   |   |
|         |                              | y - NATA # 1261   |               |          |   |                          |                               |                                  |              |  |   |  |   |   |
|         |                              | / - NATA # 1261   |               | )        |   |                          |                               |                                  |              |  |   |  |   |   |
|         |                              | NATA # 2377 Sit   | e # 2370      |          |   |                          |                               |                                  |              |  |   |  |   |   |
| No      | rnal Laboratory<br>Sample ID | Sample Date   | Sampling      | Matrix   | LAB ID  |                          |                               |                                  |              |  |   |  |   |   |
|         | SS27_1_0.0-                  | Dec 15, 2022  | Time          | Soil     | M22-Ja05279   |                          |                               |                                  |              |  |   |  |   |   |
|         | 0.1                          |   |               |          |   |                          |                               | Х                                | X            |  |   |  |   |   |
| 2       | SS27_2_0.0-<br>0.1           | Dec 17, 2022  |               | Soil     | M22-Ja05280   |                          |                               | х                                | х            |  |   |  |   |   |
| 3       | SS27_3_0.0-<br>0.1           | Dec 19, 2022  |               | Soil     | M22-Ja05281   |                          |                               | х                                | х            |  |   |  |   |   |
| 4       | SS27_4_0.0-<br>0.1           | Dec 21, 2022  |               | Soil     | M22-Ja05282   |                          |                               | х                                | x            |  |   |  |   |   |
| 5       | SS27_5_0.0-<br>0.1           | Dec 23, 2022  |               | Soil     | M22-Ja05283   |                          |                               | х                                | х            |  |   |  |   |   |
|         | SS27_6_0.0-                  | Dec 25, 2021  |               | Soil     | M22-Ja05284   |                          |                               | х                                | Х            |  |   |  |   |   |

|          | eurofi                                      | nc  |                 | Eurofins Environme<br>ABN: 50 005 085 521   | ent Te                   | sting /                       | Austra                           | lia Pty L          | .td                                    |   | Eurofins ARL Pty Ltd<br>ABN: 91 05 0159 898  | Eurofins Environmen<br>NZBN: 9429046024954  | t Testing NZ Limited  |
|----------|---|---|-----------------|---|--------------------------|-------------------------------|----------------------------------|--------------------|--|---|--|---|---|
| web: w   | www.eurofins.com.au<br>EnviroSales@eurofins | Envi  | ronment Testing | Melbourne<br>6 Monterey Road<br>Dandenong South VIC 3<br>Phone : +61 3 8564 5000<br>NATA # 1261 Site # 125- | U<br>175 1<br>0 L<br>4 P | ane Cov<br>hone : +           | Road<br>ve West<br>-61 2 99      |                    |  | Newcastle<br>4/52 Industrial Drive<br>Mayfield East NSW 2304<br>PO Box 60 Wickham 2293<br>Phone : +61 2 4968 8448<br>NATA # 1261 Site # 25079 | Perth<br>46-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7675<br>Phone : 0800 856 450<br>IANZ # 1290 |
|          | ompany Name:<br>Idress:                     | Kleinfelder A<br>Level 1, 95 C<br>South Melbo<br>VIC 3205 | -               |   |                          | R<br>Pl                       | rder M<br>eport<br>none:<br>ax:  | #:                 | 854503<br>03 9907 6000<br>03 9907 6001 |   | Received:<br>Due:<br>Priority:<br>Contact Name:  | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell                                 | 2 PM  |
|          | oject Name:<br>oject ID:                    | GLENLYON<br>20220348.00                                   | 01A             |   |                          |                               |                                  |                    |  |   | Eurofins Analytical S  | ervices Manager : H   | arry Bacalis  |
|          |   | Sa  | mple Detail     |   | HOLD                     | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Moisture Set       |  |   |  |   |   |
| Mell     | bourne Laborate                             | ory - NATA # 12   | 61 Site # 1254  |   | Х                        | Х                             | Х                                | х                  |  |   |  |   |   |
| Syd      | ney Laboratory                              | - NATA # 1261 \$  | Site # 18217    |   |                          |                               |                                  |                    |  |   |  |   |   |
|          |   | y - NATA # 1261   |                 |   |                          |                               |                                  |                    |  |   |  |   |   |
|          |   | / - NATA # 1261   |                 |   |                          |                               |                                  | $\left  - \right $ |  |   |  |   |   |
|          |   | NATA # 2377 Sit<br>,                                      | e # 2370        |   |                          |                               | <u> </u>                         |                    |  |   |  |   |   |
| EXTE     | ernal Laboratory                            | ,   |                 |   |                          |                               |                                  |                    |  |   |  |   |   |
| 7        | SS15_1_0.0-<br>0.1                          | Dec 27, 2022  | Soil            | M22-Ja05285   |                          |                               | x                                | x                  |  |   |  |   |   |
| 8        | SS15_2_0.0-<br>0.1                          | Dec 29, 2022  | Soil            | M22-Ja05286   |                          |                               | х                                | x                  |  |   |  |   |   |
| 9        | SS15_3_0.0-<br>0.1                          | Dec 31, 2022  | Soil            | M22-Ja05287   |                          |                               | x                                | x                  |  |   |  |   |   |
| 10       | SS15_4_0.0-<br>0.1                          | Jan 02, 2023  | Soil            | M22-Ja05288   |                          |                               | х                                | x                  |  |   |  |   |   |
| 11<br>12 | SS15_5_0.0-<br>0.1<br>SS15_6_0.0-           | Jan 04, 2023<br>Jan 06, 2023                              | Soil            | M22-Ja05289<br>M22-Ja05290  |                          |                               | X                                | X                  |  |   |  |   |   |
|          | 0.1   | Jan 00, 2023  | 3011            | 10122-Ja05290   |                          |                               | Х                                | Х                  |  |   |  |   |   |

|      | eurofi                                     | ns  |            | Eurofins Environme<br>ABN: 50 005 085 521<br>Melbourne                                       |                          | sting /                                    | Austra                           | lia Pty L    | Brisbane   | Newcastle  | Eurofins ARL Pty Ltd<br>ABN: 91 05 0159 898<br>Perth  | Eurofins Environmen<br>NZBN: 9429046024954<br>Auckland                              | t Testing NZ Limited  |
|------|--|---|------------|--|--------------------------|--|----------------------------------|--------------|--|--|---|---|---|
|      | ww.eurofins.com.au<br>EnviroSales@eurofins | Environme   | nt Testing | 6 Monterey Road<br>Dandenong South VIC 3<br>Phone : +61 3 8564 500<br>NATA # 1261 Site # 125 | U<br>175 1<br>0 L<br>4 P | nit F3, I<br>6 Mars<br>ane Cov<br>hone : - | Road<br>ve West<br>-61 2 99      |              | 1/21 Smallwood Place<br>Murarrie QLD 4172<br>6 Phone : +61 7 3902 4600<br>NATA # 1261 Site # 20794 | 4/52 Industrial Drive<br>Mayfield East NSW 2304<br>PO Box 60 Wickham 2293<br>Phone : +61 2 4968 8448<br>NATA # 1261 Site # 25079 | 46-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | 35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | 43 Detroit Drive<br>Rolleston, Christchurch 7675<br>Phone : 0800 856 450<br>IANZ # 1290 |
|      | mpany Name:<br>dress:                      | Kleinfelder Australia Pt<br>Level 1, 95 Coventry S<br>South Melbourne<br>VIC 3205 |            |  |                          | R  | rder I<br>eport<br>none:<br>ax:  | #:           | 854503<br>03 9907 6000<br>03 9907 6001   |  | Received:<br>Due:<br>Priority:<br>Contact Name:   | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell                     | 2 PM  |
|      | oject Name:<br>oject ID:                   | GLENLYON<br>20220348.001A   |            |  |                          |  |                                  |              |  |  | Eurofins Analytical S   | ervices Manager : H   | arry Bacalis  |
|      |  | Sample Deta   | ail        |  | HOLD                     | Sample preparation - crushing              | Polycyclic Aromatic Hydrocarbons | Moisture Set |  |  |   |   |   |
| Melk | ourne Laborato                             | ory - NATA # 1261 Site # '  | 1254       |  | Х                        | Х  | Х                                | Х            |  |  |   |   |   |
| Sydr | ey Laboratory                              | - NATA # 1261 Site # 182  | 17         |  |                          |  |                                  |              |  |  |   |   |   |
| Bris | pane Laboratory                            | / - NATA # 1261 Site # 20   | 794        |  |                          |  |                                  |              |  |  |   |   |   |
|      |  | - NATA # 1261 Site # 25   | 079        |  |                          |  |                                  |              |  |  |   |   |   |
|      |  | IATA # 2377 Site # 2370   |            |  |                          |  |                                  |              |  |  |   |   |   |
|      | rnal Laboratory                            |   |            |  |                          |  | <u> </u>                         |              |  |  |   |   |   |
|      | SS29_1_0.0-<br>0.1                         | Jan 08, 2023  | Soil       | M22-Ja05291  |                          |  | х                                | x            |  |  |   |   |   |
|      | SS29_2_0.0-<br>0.1                         | Jan 10, 2023  | Soil       | M22-Ja05292  |                          |  | х                                | х            |  |  |   |   |   |
| 15   | SS29_3_0.0-<br>0.1                         | Jan 12, 2023  | Soil       | M22-Ja05293  |                          |  | х                                | х            |  |  |   |   |   |
|      | SS29_4_0.0-<br>0.1                         | Jan 14, 2023  | Soil       | M22-Ja05294  |                          |  | х                                | x            |  |  |   |   |   |
|      | SS29_5_0.0-<br>0.1                         | Jan 16, 2023  | Soil       | M22-Ja05295  |                          |  | х                                | x            |  |  |   |   |   |
| 18   | SS29_6_0.0-<br>0.1                         | Jan 18, 2023  | Soil       | M22-Ja05296  |                          |  | х                                | х            |  |  |   |   |   |
| -    |  | Jan 20, 2023  | Soil       | M22-Ja05297  |                          |  | Х                                | х            |  |  |   |   |   |

|        | eurofi                                     | ns  |                 | Eurofins Environme<br>ABN: 50 005 085 521   | ent Te                   | sting /                       | Austra                           | lia Pty L    | td  |   | Eurofins ARL Pty Ltd<br>ABN: 91 05 0159 898  | Eurofins Environmen<br>NZBN: 9429046024954  | t Testing NZ Limited  |
|--------|--|---|-----------------|---|--------------------------|-------------------------------|----------------------------------|--------------|---|---|--|---|---|
| web: w | ww.eurofins.com.au<br>EnviroSales@eurofins | Envi  | ronment Testing | Melbourne<br>6 Monterey Road<br>Dandenong South VIC 3<br>Phone : +61 3 8564 500<br>NATA # 1261 Site # 125 | U<br>175 1<br>0 L<br>4 P | 6 Mars<br>ane Cov<br>hone : - | ve West<br>-61 2 99              |              | Brisbane<br>1/21 Smallwood Place<br>Murarrie QLD 4172<br>56 Phone : +61 7 3902 4600<br>NATA # 1261 Site # 20794 | Newcastle<br>4/52 Industrial Drive<br>Mayfield East NSW 2304<br>PO Box 60 Wickham 2293<br>Phone : +61 2 4968 8448<br>NATA # 1261 Site # 25079 | Perth<br>46-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7675<br>Phone : 0800 856 450<br>IANZ # 1290 |
|        | mpany Name:<br>dress:                      | Kleinfelder A<br>Level 1, 95 C<br>South Melbo<br>VIC 3205 |                 |   |                          | R                             | rder N<br>eport<br>none:<br>ax:  | #:           | 854503<br>03 9907 6000<br>03 9907 6001  |   | Received:<br>Due:<br>Priority:<br>Contact Name:  | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell                                 | ? PM  |
|        | oject Name:<br>oject ID:                   | GLENLYON<br>20220348.00                                   | 1A              |   |                          |                               |                                  |              |   |   | Eurofins Analytical S  | ervices Manager : Ha  | arry Bacalis  |
|        |  | Sa  | mple Detail     |   | HOLD                     | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Moisture Set |   |   |  |   |   |
| Melk   | ourne Laborate                             | ory - NATA # 12   | 61 Site # 1254  |   | Х                        | Х                             | Х                                | х            |   |   |  |   |   |
|        |  | - NATA # 1261 \$  |                 |   |                          |                               |                                  |              |   |   |  |   |   |
|        |  | y - NATA # 1261   |                 |   |                          |                               |                                  |              |   |   |  |   |   |
|        |  | <u>/ - NATA # 1261</u>                                    |                 |   |                          |                               | <u> </u>                         |              |   |   |  |   |   |
|        |  | NATA # 2377 Sit   | e # 23/U        |   |                          |                               |                                  |              |   |   |  |   |   |
| Exte   | rnal Laboratory                            |   |                 |   |                          |                               |                                  |              |   |   |  |   |   |
| 20     | QC01                                       | Jan 21, 2023  | Soil            | M22-Ja05298   |                          |                               | х                                | x            |   |   |  |   |   |
| 21     | QC03                                       | Jan 22, 2023  | Soil            | M22-Ja05299   | x                        |                               |                                  |              |   |   |  |   |   |
| 22     | QC05                                       | Jan 23, 2023  | Water           | M22-Ja05300   |                          |                               | х                                |              |   |   |  |   |   |
| 23     | SS27_1_0.4-<br>0.5                         | Dec 16, 2022  | Soil            | M22-Ja05301   | x                        |                               |                                  |              |   |   |  |   |   |
| 24     | SS27_2_0.4-<br>0.5                         | Dec 18, 2022  | Soil            | M22-Ja05302   | x                        |                               |                                  |              |   |   |  |   |   |
| 25     | SS27_3_0.4-<br>0.5                         | Dec 20, 2022  | Soil            | M22-Ja05303   | х                        |                               |                                  |              |   |   |  |   |   |
| 26     | SS27_4_0.4-<br>0.5                         | Dec 22, 2022  | Soil            | M22-Ja05304   | х                        |                               |                                  |              |   |   |  |   |   |

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|        | mpany Name:<br>dress:                      | Kleinfelder Australia Pty Lt<br>Level 1, 95 Coventry St<br>South Melbourne<br>VIC 3205 | d (VIC) |  |                          | R(<br>Pl                                     | rder M<br>eport<br>none:<br>ax:  | #:           | 854503<br>03 9907 6000<br>03 9907 6001  |  | Received:<br>Due:<br>Priority:<br>Contact Name:   | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell                     | PM  |
|        | oject Name:<br>oject ID:                   | GLENLYON<br>20220348.001A  |         |  |                          |  |                                  |              |   |  | Eurofins Analytical S   | ervices Manager : Ha  | arry Bacalis  |
|        |  | Sample Detail  |         |  | HOLD                     | Sample preparation - crushing                | Polycyclic Aromatic Hydrocarbons | Moisture Set |   |  |   |   |   |
| Melb   | ourne Laborato                             | ory - NATA # 1261 Site # 125   | 4       |  | Х                        | Х  | Х                                | х            |   |  |   |   |   |
| Sydr   | ney Laboratory                             | - NATA # 1261 Site # 18217   |         |  |                          |  |                                  |              |   |  |   |   |   |
|        |  | y - NATA # 1261 Site # 20794   |         |  |                          |  |                                  |              |   |  |   |   |   |
|        |  | / - NATA # 1261 Site # 25079   |         |  |                          |  |                                  |              |   |  |   |   |   |
|        |  | NATA # 2377 Site # 2370  |         |  |                          |  |                                  |              |   |  |   |   |   |
| 27     | rnal Laboratory<br>SS27_5_0.4-<br>0.5      | Dec 24, 2022   | Soil    | M22-Ja05305  | x                        |  |                                  |              |   |  |   |   |   |
| 28     | SS27_6_0.4-<br>0.5                         | Dec 26, 2022   | Soil    | M22-Ja05306  | х                        |  |                                  |              |   |  |   |   |   |
| 29     | SS15_1_0.3-<br>0.4                         | Dec 28, 2022   | Soil    | M22-Ja05307  | х                        |  |                                  |              |   |  |   |   |   |
| 30     | SS15_2_0.3-<br>0.4                         | Dec 30, 2022   | Soil    | M22-Ja05308  | х                        |  |                                  |              |   |  |   |   |   |
|        | SS15_3_0.3-<br>0.4                         | Jan 01, 2023   | Soil    | M22-Ja05309  | х                        |  |                                  |              |   |  |   |   |   |
|        | SS15_4_0.3-<br>0.4                         |  | Soil    | M22-Ja05310  | x                        |  |                                  |              |   |  |   |   |   |
| 33     | SS15_5_0.3-                                | Jan 05, 2023   | Soil    | M22-Ja05311  | Х                        |  |                                  |              |   |  |   |   |   |

| web: w | eurofi  | Envi                    | ronment Testing | Eurofins Environme           ABN: 50 005 085 521           Melbourne           6 Monterey Road           Dandenong South VIC 3'           Phone : +61 3 8564 5000           NATA # 1261 Site # 1254 | S<br>U<br>175 1(<br>La<br>I P | ydney<br>nit F3, E<br>6 Mars I<br>ane Cov<br>hone : 4 | Building<br>Road<br>re West<br>61 2 99 | F<br>NSW 2   | Brisbane<br>1/21 Smallwood Place<br>Murarrie QLD 4172<br>066 Phone : +61 7 3902 4600<br>NATA # 1261 Site # 20794 |                          | Eurofins ARL Pty Ltd<br>ABN: 91 05 0159 898<br>Perth<br>46-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | Eurofins Environment<br>NZBN: 9429046024954<br>Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | t Testing NZ Limited<br>Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7675<br>Phone : 0800 856 450<br>IANZ # 1290 |
|--------|---|-------------------------|-----------------|---|-------------------------------|---|--|--------------|--|--------------------------|---|--|---|
| Co     | EnviroSales@eurofin:<br>ompany Name:<br>Idress: |                         |                 |   |                               | R   | rder f<br>eport<br>none:<br>ax:        | No.:<br>#:   | 854503<br>03 9907 6000<br>03 9907 6001   | NATA # 1261 Site # 25079 | Received:<br>Due:<br>Priority:<br>Contact Name:   | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell  | PM  |
|        | oject Name:<br>oject ID:                        | GLENLYON<br>20220348.00 | 01A             |   |                               |   |  |              |  |                          | Eurofins Analytical S   | ervices Manager : Ha   | arry Bacalis  |
|        |   | Sa                      | mple Detail     |   | HOLD                          | Sample preparation - crushing                         | Polycyclic Aromatic Hydrocarbons       | Moisture Set |  |                          |   |  |   |
| Mell   | bourne Laborat                                  | ory - NATA # 12         | 61 Site # 1254  |   | Х                             | Х   | Х                                      | Х            |  |                          |   |  |   |
|        |   | - NATA # 1261           |                 |   |                               |   |  |              |  |                          |   |  |   |
|        |   | y - NATA # 1261         |                 |   |                               |   |  |              |  |                          |   |  |   |
|        |   | y - NATA # 1261         |                 |   |                               |   |  |              |  |                          |   |  |   |
|        | ernal Laboratory - I                            | NATA # 2377 Sit         | le # 23/U       |   |                               |   |  |              |  |                          |   |  |   |
|        | 0.4   |                         |                 |   |                               |   |  |              |  |                          |   |  |   |
| 34     | SS15_6_0.3-<br>0.4                              | Jan 07, 2023            | Soil            | M22-Ja05312   | х                             |   |  |              |  |                          |   |  |   |
| 35     | SS29_1_0.4-<br>0.5                              | Jan 09, 2023            | Soil            | M22-Ja05313   | Х                             |   |  |              |  |                          |   |  |   |
| 36     | SS29_2_0.4-<br>0.5                              | Jan 11, 2023            | Soil            | M22-Ja05314   | х                             |   |  |              |  |                          |   |  |   |
| 37     | SS29_3_0.4-<br>0.5                              | Jan 13, 2023            | Soil            | M22-Ja05315   | х                             |   |  |              |  |                          |   |  |   |
| 38     | SS29_4_0.4-<br>0.5                              | Jan 15, 2023            | Soil            | M22-Ja05316   | Х                             |   |  |              |  |                          |   |  |   |
| 39     | SS29_5_0.4-<br>0.5                              | Jan 17, 2023            | Soil            | M22-Ja05317   | Х                             |   |  |              |  |                          |   |  |   |

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|--|---|----------------|---------|---|---------------------|-------------------------------|----------------------------------|--------------|--|---|--|---|---|
| web: www.eurofins.com.au<br>email: EnviroSales@eurofins. | Envi  | ronment        | Testing | Melbourne<br>6 Monterey Road<br>Dandenong South VIC 3<br>Phone : +61 3 8564 500<br>NATA # 1261 Site # 125 | 175 1<br>0 L<br>4 P | 6 Mars<br>ane Co<br>hone : ·  | ve West<br>+61 2 9               |              |  | Newcastle<br>4/52 Industrial Drive<br>Mayfield East NSW 2304<br>PO Box 60 Wickham 2293<br>Phone : +61 2 4968 8448<br>NATA # 1261 Site # 25079 | Perth<br>46-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7674<br>Phone : 0800 856 450<br>IANZ # 1290 |
| Company Name:<br>Address:                                | Kleinfelder A<br>Level 1, 95 C<br>South Melbo<br>VIC 3205 |                | d (VIC) |   |                     | R<br>P                        | rder I<br>eport<br>hone:<br>ax:  | #:           | 854503<br>03 9907 6000<br>03 9907 6001 |   | Received:<br>Due:<br>Priority:<br>Contact Name:  | Jan 11, 2022 12:02<br>Jan 18, 2022<br>5 Day<br>Jeremy McDonnell                                 | 2 PM  |
| Project Name:<br>Project ID:                             | GLENLYON<br>20220348.00                                   | )1A            |         |   |                     |                               |                                  |              |  |   | Eurofins Analytical S  | ervices Manager : H   | arry Bacalis  |
|  | Sa  | mple Detail    |         |   | HOLD                | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Moisture Set |  |   |  |   |   |
| Melbourne Laborato                                       | ory - NATA # 12   | 61 Site # 1254 | 4       |   | Х                   | Х                             | Х                                | Х            |  |   |  |   |   |
| Sydney Laboratory -                                      | NATA # 1261   | Site # 18217   |         |   |                     |                               |                                  |              |  |   |  |   |   |
| Brisbane Laboratory                                      | / - NATA # 126  | I Site # 20794 |         |   |                     |                               |                                  |              |  |   |  |   |   |
| Mayfield Laboratory                                      | - NATA # 1261   | Site # 25079   |         |   |                     |                               |                                  |              |  |   |  |   |   |
| Perth Laboratory - N                                     | IATA # 2377 Sit   | te # 2370      |         |   |                     |                               |                                  | <u> </u>     |  |   |  |   |   |
| External Laboratory                                      |   |                |         |   |                     |                               |                                  |              |  |   |  |   |   |
| 40 SS29_6_0.4-<br>0.5                                    | Jan 19, 2023  |                | Soil    | M22-Ja05318   | x                   |                               |                                  |              |  |   |  |   |   |
|  | Dec 15, 2022  |                | Solid   | M22-Ja05339   |                     | X                             | X                                | Х            |  |   |  |   |   |
| Test Counts  |   |                |         |   | 19                  | 1                             | 22                               | 21           |  |   |  |   |   |



#### Internal Quality Control Review and Glossary

#### General

- 1. 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.
- 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- 9. 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.

#### Units

| erinte                                   |                                    |  |
|--|------------------------------------|--|
| mg/kg: milligrams per kilogram           | mg/L: milligrams per litre         | μg/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

| 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 5.4  |
| СР               | 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   |
| WA DWER          | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA  |
|                  |  |

#### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

#### **QC Data General Comments**

- 1. 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.
- 2. 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.
- 3. 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.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



#### **Quality Control Results**

| Те                            | st            |              | Units | Result 1 |     | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
|-------------------------------|---------------|--------------|-------|----------|-----|----------------------|----------------|--------------------|
| Method Blank                  |               |              |       |          |     |                      |                |                    |
| Polycyclic Aromatic Hydrocarl | oons          |              |       |          |     |                      |                |                    |
| 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           |                    |
| LCS - % Recovery              |               |              |       |          |     |                      |                |                    |
| Polycyclic Aromatic Hydrocarl | oons          |              |       |          |     |                      |                |                    |
| Acenaphthene                  |               |              | %     | 85       |     | 70-130               | Pass           |                    |
| Acenaphthylene                |               |              | %     | 86       |     | 70-130               | Pass           |                    |
| Anthracene                    |               |              | %     | 106      |     | 70-130               | Pass           |                    |
| Benz(a)anthracene             |               |              | %     | 87       |     | 70-130               | Pass           |                    |
| Benzo(a)pyrene                |               |              | %     | 105      |     | 70-130               | Pass           |                    |
| Benzo(b&j)fluoranthene        |               |              | %     | 121      |     | 70-130               | Pass           |                    |
| Benzo(g.h.i)perylene          |               |              | %     | 82       |     | 70-130               | Pass           |                    |
| Benzo(k)fluoranthene          |               |              | %     | 101      |     | 70-130               | Pass           |                    |
| Chrysene                      |               |              | %     | 104      |     | 70-130               | Pass           |                    |
| Dibenz(a.h)anthracene         |               |              | %     | 104      |     | 70-130               | Pass           |                    |
| Fluoranthene                  |               |              | %     | 94       |     | 70-130               | Pass           |                    |
| Fluorene                      |               |              | %     | 104      |     | 70-130               | Pass           |                    |
| Indeno(1.2.3-cd)pyrene        |               |              | %     | 85       |     | 70-130               | Pass           |                    |
| Naphthalene                   |               |              | %     | 73       |     | 70-130               | Pass           |                    |
| Phenanthrene                  |               |              | %     | 116      |     | 70-130               | Pass           |                    |
| Pyrene                        |               |              | %     | 94       |     | 70-130               | Pass           |                    |
| Test                          | Lab Sample ID | QA<br>Source | Units | Result 1 |     | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
| Spike - % Recovery            |               |              |       | 1        | 1 1 |                      |                |                    |
| Polycyclic Aromatic Hydrocarl | oons          | 1            |       | Result 1 |     |                      |                |                    |
| Acenaphthene                  | M22-Ja05285   | CP           | %     | 100      |     | 70-130               | Pass           |                    |
| Acenaphthylene                | M22-Ja05285   | CP           | %     | 99       |     | 70-130               | Pass           |                    |
| Anthracene                    | M22-Ja05285   | CP           | %     | 115      |     | 70-130               | Pass           |                    |
| Benz(a)anthracene             | M22-Ja05285   | CP           | %     | 71       |     | 70-130               | Pass           |                    |
| Benzo(a)pyrene                | M22-Ja05285   | CP           | %     | 87       |     | 70-130               | Pass           |                    |
| Benzo(b&j)fluoranthene        | M22-Ja05285   | CP           | %     | 101      |     | 70-130               | Pass           |                    |
| Benzo(g.h.i)perylene          | M22-Ja05285   | CP           | %     | 104      |     | 70-130               | Pass           |                    |
| Benzo(k)fluoranthene          | M22-Ja05285   | CP           | %     | 120      |     | 70-130               | Pass           |                    |
| Chrysene                      | M22-Ja05285   | CP           | %     | 87       |     | 70-130               | Pass           |                    |
| Dibenz(a.h)anthracene         | M22-Ja05285   | CP           | %     | 87       |     | 70-130               | Pass           |                    |
| Fluoranthene                  | M22-Ja05285   | CP           | %     | 108      |     | 70-130               | Pass           |                    |
| Fluorene                      | M22-Ja05285   | CP           | %     | 122      |     | 70-130               | Pass           |                    |



| Test   | Lab Sample ID   | QA<br>Source   | Units   | Result 1  |   |   | Acceptance<br>Limits  | Pass<br>Limits   | Qualifying<br>Code |
|--|---|--|---|---|---|---|---|--|--------------------|
| Indeno(1.2.3-cd)pyrene   | M22-Ja05285   | CP   | %   | 106   |   |   | 70-130  | Pass   |                    |
| Naphthalene  | M22-Ja05285   | CP   | %   | 81  |   |   | 70-130  | Pass   |                    |
| Phenanthrene   | M22-Ja05285   | CP   | %   | 91  |   |   | 70-130  | Pass   |                    |
| Pyrene   | M22-Ja05285   | CP   | %   | 107   |   |   | 70-130  | Pass   |                    |
| Spike - % Recovery   |   |  |   |   |   |   |   |  |                    |
| Polycyclic Aromatic Hydrocarbo   | ns  |  |   | Result 1  |   |   |   |  |                    |
| Acenaphthene   | M22-Ja05295   | CP   | %   | 93  |   |   | 70-130  | Pass   |                    |
| Acenaphthylene   | M22-Ja05295   | CP   | %   | 94  |   |   | 70-130  | Pass   |                    |
| Anthracene   | M22-Ja05295   | CP   | %   | 107   |   |   | 70-130  | Pass   |                    |
| Benz(a)anthracene  | M22-Ja05295   | CP   | %   | 98  |   |   | 70-130  | Pass   |                    |
| Benzo(a)pyrene   | M22-Ja05295   | CP   | %   | 120   |   |   | 70-130  | Pass   |                    |
| Benzo(b&j)fluoranthene   | M22-Ja05295   | CP   | %   | 95  |   |   | 70-130  | Pass   |                    |
| Benzo(g.h.i)perylene   | M22-Ja05295   | CP   | %   | 101   |   |   | 70-130  | Pass   |                    |
| Benzo(k)fluoranthene   | M22-Ja05295   | CP   | %   | 109   |   |   | 70-130  | Pass   |                    |
| Chrysene   | M22-Ja05295   | CP   | %   | 79  |   |   | 70-130  | Pass   |                    |
| Dibenz(a.h)anthracene  | M22-Ja05295   | CP   | %   | 83  |   |   | 70-130  | Pass   |                    |
| Fluoranthene   | M22-Ja05295   | CP   | %   | 92  |   |   | 70-130  | Pass   |                    |
| Fluorene   | M22-Ja05295   | CP   | %   | 115   |   |   | 70-130  | Pass   |                    |
| Indeno(1.2.3-cd)pyrene   | M22-Ja05295   | CP   | %   | 101   |   |   | 70-130  | Pass   |                    |
| Naphthalene  | M22-Ja05295   | CP   | %   | 78  |   |   | 70-130  | Pass   |                    |
| Phenanthrene   | M22-Ja05295   | CP   | %   | 87  |   |   | 70-130  | Pass   |                    |
| Pyrene   | M22-Ja05295   | CP   | %   | 94  |   |   | 70-130  | Pass   |                    |
| Test   | Lab Sample ID   | QA<br>Source   | Units   | Result 1  |   |   | Acceptance<br>Limits  | Pass<br>Limits   | Qualifying<br>Code |
| Duplicate  |   |  |   |   |   |   |   |  |                    |
|  |   |  |   | Result 1  | Result 2  | RPD   |   |  |                    |
| % Moisture   | M22-Ja05279   | CP   | %   | 26  | 26  | 1.0   | 30%   | Pass   |                    |
| Duplicate  |   |  |   |   |   |   |   |  |                    |
|  |   |  |   |   |   |   |   |  |                    |
| Polycyclic Aromatic Hydrocarbo   | ns  | 1  |   | Result 1  | Result 2  | RPD   |   |  |                    |
| Polycyclic Aromatic Hydrocarbo<br>Acenaphthene   | ns<br>M22-Ja05284   | СР   | mg/kg   | Result 1<br>< 0.5   | Result 2<br>< 0.5   | RPD<br><1   | 30%   | Pass   |                    |
|  |   | CP<br>CP   | mg/kg<br>mg/kg  |   |   |   | 30%<br>30%  | Pass<br>Pass   |                    |
| Acenaphthene   | M22-Ja05284   | -  | 00  | < 0.5   | < 0.5   | <1  |   |  |                    |
| Acenaphthene<br>Acenaphthylene   | M22-Ja05284<br>M22-Ja05284  | СР   | mg/kg   | < 0.5<br>< 0.5  | < 0.5<br>< 0.5  | <1<br><1  | 30%   | Pass   |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene   | M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284   | CP<br>CP   | mg/kg<br>mg/kg  | < 0.5<br>< 0.5<br>< 0.5   | < 0.5<br>< 0.5<br>< 0.5   | <1<br><1<br><1  | 30%<br>30%  | Pass<br>Pass   |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene  | M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284  | CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | <1<br><1<br><1<br><1  | 30%<br>30%<br>30%<br>30%<br>30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass                         |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene  | M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284  | CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1  | 30%<br>30%<br>30%<br>30%  | Pass<br>Pass<br>Pass<br>Pass                                 |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene  | M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284  | CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1                                    | 30%<br>30%<br>30%<br>30%<br>30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass                         |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene  | M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284  | CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5  | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1                              | 30%<br>30%<br>30%<br>30%<br>30%<br>30%  | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass                 |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene  | M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284<br>M22-Ja05284  | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1                  | 30%           30%           30%           30%           30%           30%           30%           30%           30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass         |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene  | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg   | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5  | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1      | 30%           30%           30%           30%           30%           30%           30%           30%           30%           30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass         |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene   | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg  | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | < 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene   | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                                     | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | < 0.5<br>< 0.5  | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%           30%   | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(g.h.i)perylene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluorene   | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                            | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%             | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene         Acenaphthylene         Anthracene         Benz(a)anthracene         Benzo(a)pyrene         Benzo(b&j)fluoranthene         Benzo(b&j)fluoranthene         Benzo(b&j)fluoranthene         Benzo(b&j)fluoranthene         Benzo(k)fluoranthene         Chrysene         Dibenz(a.h)anthracene         Fluoranthene         Fluorene         Indeno(1.2.3-cd)pyrene   | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                           | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene         Acenaphthylene         Anthracene         Benz(a)anthracene         Benzo(a)pyrene         Benzo(b&j)fluoranthene         Benzo(b&j)fluoranthene         Benzo(b&j)fluoranthene         Benzo(b&j)fluoranthene         Benzo(k)fluoranthene         Chrysene         Dibenz(a.h)anthracene         Fluoranthene         Fluorene         Indeno(1.2.3-cd)pyrene         Naphthalene   | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg                   | < 0.5 $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene         Acenaphthylene         Anthracene         Benz(a)anthracene         Benzo(a)pyrene         Benzo(b&j)fluoranthene         Benzo(g.h.i)perylene         Benzo(k)fluoranthene         Chrysene         Dibenz(a.h)anthracene         Fluoranthene         Fluorene         Indeno(1.2.3-cd)pyrene         Naphthalene         Phenanthrene  | M22-Ja05284           M22-Ja05284 | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg          | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           30% | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene         Acenaphthylene         Anthracene         Benz(a)anthracene         Benzo(a)pyrene         Benzo(g.h.i)perylene         Benzo(g.h.i)perylene         Benzo(k)fluoranthene         Chrysene         Dibenz(a.h)anthracene         Fluoranthene         Fluorene         Indeno(1.2.3-cd)pyrene         Naphthalene         Pyrene         Duplicate  | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene         Acenaphthylene         Anthracene         Benz(a)anthracene         Benzo(a)pyrene         Benzo(b&j)fluoranthene         Benzo(g.h.i)perylene         Benzo(k)fluoranthene         Chrysene         Dibenz(a.h)anthracene         Fluoranthene         Fluorene         Indeno(1.2.3-cd)pyrene         Naphthalene         Phenanthrene         Pyrene   | M22-Ja05284           M22-Ja05284 | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg          | < 0.5 $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$ $< 0.5$   | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%           30% | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene         Acenaphthylene         Anthracene         Benz(a)anthracene         Benzo(a)pyrene         Benzo(b&j)fluoranthene         Benzo(b&j)fluoranthene         Benzo(b&j)fluoranthene         Benzo(k)fluoranthene         Chrysene         Dibenz(a.h)anthracene         Fluoranthene         Fluorene         Indeno(1.2.3-cd)pyrene         Naphthalene         Phenanthrene         Pyrene         Duplicate         % Moisture         Duplicate   | M22-Ja05284   | CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>CP<br>C  | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene<br>Duplicate<br>Moisture<br>Duplicate<br>Polycyclic Aromatic Hydrocarbo  | M22-Ja05284   | CP           CP | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene         Acenaphthylene         Anthracene         Benz(a)anthracene         Benzo(a)pyrene         Benzo(b&j)fluoranthene         Benzo(b&j)fluoranthene         Benzo(b&j)fluoranthene         Benzo(k)fluoranthene         Chrysene         Dibenz(a.h)anthracene         Fluoranthene         Fluorene         Indeno(1.2.3-cd)pyrene         Naphthalene         Phenanthrene         Pyrene         Duplicate         % Moisture         Duplicate   | M22-Ja05284   | CP              | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5   | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene<br>Duplicate<br>Moisture<br>Duplicate<br>Polycyclic Aromatic Hydrocarbo  | M22-Ja05284   | CP           CP | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene<br>Acenaphthylene<br>Anthracene<br>Benz(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b&j)fluoranthene<br>Benzo(b&j)fluoranthene<br>Benzo(k)fluoranthene<br>Chrysene<br>Dibenz(a.h)anthracene<br>Fluoranthene<br>Fluoranthene<br>Fluorene<br>Indeno(1.2.3-cd)pyrene<br>Naphthalene<br>Phenanthrene<br>Pyrene<br>Duplicate<br>Moisture<br>Duplicate<br>Polycyclic Aromatic Hydrocarbo<br>Acenaphthene  | M22-Ja05284   | СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5  | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%                                               | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |
| Acenaphthene         Acenaphthylene         Anthracene         Benz(a)anthracene         Benzo(a)pyrene         Benzo(b&j)fluoranthene         Benzo(g.h.i)perylene         Benzo(k)fluoranthene         Chrysene         Dibenz(a.h)anthracene         Fluoranthene         Fluoranthene         Fluorene         Indeno(1.2.3-cd)pyrene         Naphthalene         Phenanthrene         Pyrene         Duplicate         % Moisture         Duplicate         Polycyclic Aromatic Hydrocarbo         Acenaphthylene | M22-Ja05284   | СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР<br>СР   | mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg<br>mg/kg | < 0.5<br>< 0.5 | < 0.5<br>< 0.5 | <1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br><1<br>< | 30%<br>30%<br>30%<br>30%<br>30%<br>30%<br>30%<br>30%<br>30%<br>30%  | Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass<br>Pass |                    |



| Duplicate                    |             |    |       |          |          |     |     |      |  |
|------------------------------|-------------|----|-------|----------|----------|-----|-----|------|--|
| Polycyclic Aromatic Hydrocar | bons        |    |       | Result 1 | Result 2 | RPD |     |      |  |
| Benzo(b&j)fluoranthene       | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Benzo(g.h.i)perylene         | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Benzo(k)fluoranthene         | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Chrysene                     | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Dibenz(a.h)anthracene        | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Fluoranthene                 | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Fluorene                     | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Indeno(1.2.3-cd)pyrene       | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Naphthalene                  | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Phenanthrene                 | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |
| Pyrene                       | M22-Ja05294 | CP | mg/kg | < 0.5    | < 0.5    | <1  | 30% | Pass |  |



#### Comments

| N/A |
|-----|
| Yes |
| No  |
|     |

#### **Qualifier Codes/Comments**

Code

de Description

N07 Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

#### Authorised by:

Callum McEwan Joseph Edouard Analytical Services Manager Senior Analyst-Organic (VIC)

Glenn Jackson General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested
- \* Indicates NATA accreditation does not cover the performance of this service
- Measurement uncertainty of test data is available on request or please click here.

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| Client:<br>Kleinfelder Austral | ia Ptv Ltd | Site N       | amo                     | Clasha                |             |           | -         |              | SITE, C | OC AN   | D CONT  |        |                             |            |                 |                           |            |         |           |        | Laboratory:                |
|--------------------------------|------------|--------------|-------------------------|-----------------------|-------------|-----------|-----------|--------------|---------|---------|---------|--------|-----------------------------|------------|-----------------|---------------------------|------------|---------|-----------|--------|----------------------------|
| Level 1, 95 Covent             |            | _            | ame:<br>'E NUMBER       | Glenlyon              |             |           |           |              |         |         | _       | -      | pler Name:                  | Matt Kin   |                 |                           |            |         |           |        | Eurofins/mgt               |
| South Melbou                   |            | Job No       |                         | 20220348,00           |             |           |           |              |         |         |         |        | act Number:                 | 4677896    |                 | _                         |            |         |           | 6 N    | fonterey Road              |
| VIC 3205                       |            | _            | ed TAT:                 | 20220348,00<br>24 hrs | _           | 8 hrs     |           |              |         | 1       | $\sim$  |        | oct e-mail:                 |            | deinfelder.com  | _                         |            |         |           | Dar    | ndenong South              |
| Phone: 03 9907                 | 6000       | _            | A level:                | LAB minimum           |             |           |           | days         | 50      | ays     | 7 days  |        | ame (if not sample<br>mail: |            |                 |                           |            |         |           |        | VIC 3175                   |
| CHAIN OF CUSTODY               |            |              |                         |                       |             |           |           |              | -       | -       | -       | - IM E | -man;                       | Imcdonne   | @kleinfelder.co | m                         |            |         | Phone: (0 |        | 4 5000 Fax: (03) 8564 5090 |
| Relinquished by (print):       |            |              | Rece                    | eived by (print):     |             |           |           |              |         | Relinq  | uished; |        |                             |            | Received by:    |                           |            |         |           | Se     | end Results to:            |
| (sign)                         |            |              |                         | (sign)                |             |           |           |              |         | _       | (sign)  |        |                             |            | (sign)          |                           |            |         | 1         | aval 1 | 95 Coventry Street         |
| Date / Time:                   |            |              | Date / Time:            |                       |             |           |           |              | Date    | / Time: |         |        |                             | Date / Tim | 10:             |                           |            |         |           |        | elbourne, VIC 3205         |
| Notes:                         |            |              | Temp. ( <sup>o</sup> C) |                       | -           | ice pro   | sent / n  |              | Notes   |         |         |        |                             | Temp. (°C  | C)              |                           |            |         |           |        |                            |
|                                |            |              | Notes:                  |                       |             |           | sent / no |              | 10100   |         |         |        |                             | Notes:     |                 | ice preser<br>sents intar | nt / noice |         | me        | bourne | e: 03 9907 6000            |
|                                |            |              |                         |                       |             |           |           |              | -       | _       |         | Örga   | nic Analytes                |            | м               | etals                     |            | Other A | nalytes   | FIION  | 3. 03 9907 6000            |
| Sample ID                      | Lab ID     | Sample Point | Sample Type             | Date                  | Start Depth | End Depth | Units     | # Containers | АН      | огр     |         |        |                             |            |                 |                           |            |         |           |        | Comments                   |
| SS27_1_0.0_0.1                 |            |              | Soil                    | 16/12/2021            |             |           |           | 1            | x       | -       |         |        |                             |            | ++              |                           | +          |         |           | +      |                            |
| SS27_1_0.4_0.5                 |            |              | Soil                    | 16/12/2021            |             |           |           | 1            |         | x       |         |        |                             |            |                 | _                         |            |         |           | -      |                            |
| SS27_2_0.0_0.1                 |            |              | Soil                    | 16/12/2021            |             |           |           | 1            | x       |         |         | -      |                             |            |                 |                           |            |         | -         |        |                            |
| SS27_2_0.4_0.5                 |            |              | Soll                    | 16/12/2021            |             |           |           | 1            |         | х       |         |        |                             | 1          |                 |                           |            |         |           | -      |                            |
| SS27_3_0.0_0.1                 |            |              | Soil                    | 16/12/2021            |             |           |           | à            | x       |         |         |        |                             |            |                 |                           |            |         |           |        |                            |
| SS27_3_0.4_0.5                 |            |              | Soll                    | 16/12/2021            |             |           |           | 1            |         | x       |         |        |                             |            |                 |                           |            |         |           | -      |                            |
| SS27_4_0.0_0.1                 |            |              | Soil                    | 16/12/2021            |             |           |           | 1            | x       |         |         | -      |                             |            |                 |                           | +          |         |           |        |                            |
| SS27_4_0.4_0.5                 |            |              | Soil                    | 16/12/2021            |             |           |           | 1            |         | x       |         |        |                             |            |                 |                           |            | -       |           | -      |                            |
| SS27_5_0.0_0.1                 |            |              | Soil                    | 16/12/2021            |             |           |           | 1            | x       |         |         |        |                             |            |                 |                           |            |         |           |        |                            |
| S27_5_0.4_0.5                  |            |              | Soli                    | 16/12/2021            |             |           |           | 1            |         | x       |         |        |                             |            |                 |                           |            |         |           |        |                            |
| S27_6_0.0_0.1                  |            |              | Soil                    | 16/12/2021            |             |           |           | 1            | x       |         |         |        |                             |            |                 |                           | +          | _       |           |        |                            |
| S27_6_0.4_0.5                  |            |              | Soil                    | 16/12/2021            |             |           |           | 1            |         | x       |         |        |                             |            |                 |                           |            |         | -         |        |                            |
| S15_1_0.0-0.1                  |            |              | Soil                    | 16/12/2021            |             |           |           | 1            | x       |         |         |        |                             |            |                 |                           |            |         |           |        |                            |
| \$15_1_0.3-0.4                 |            |              | Soil                    | 16/12/2021            |             |           |           | 1            |         | x       |         |        |                             |            |                 |                           |            |         |           |        |                            |
| S15_2_0.0-0.1                  |            |              | Soil                    | 16/12/2021            |             |           |           | t            | x       |         |         |        |                             |            |                 |                           |            | -       |           |        |                            |
| S15_2_0.3-0.4                  |            |              | Soil                    | 16/12/2021            |             |           |           | 1            |         | x       |         |        |                             |            |                 |                           |            |         |           |        |                            |
| S15_3_0.0-0.1                  |            |              | Soil                    | 16/12/2021            |             |           |           | 1            | x       |         |         |        |                             |            |                 |                           |            |         | 1         |        |                            |
| S15_3_0.3-0.4                  |            |              | Soll                    | 16/12/2021            |             |           |           | 1            |         | x       |         |        |                             |            |                 |                           | + +        |         |           |        |                            |

Jultonah 854,503

| CHAIN OF CUSTODY         |        |              |                            |                  |             |           |           |              |        |         |          |        |         |      |      |  |              |                 |           |         |     |          |     | Se     | nd Results to:       |
|--------------------------|--------|--------------|----------------------------|------------------|-------------|-----------|-----------|--------------|--------|---------|----------|--------|---------|------|------|--|--------------|-----------------|-----------|---------|-----|----------|-----|--------|----------------------|
| Relinquished by (print): |        |              | Recei                      | lved by (print): |             | _         |           |              |        | Relind  | quished: |        |         |      | _    | R                                      | Received by: |                 |           |         |     |          |     |        |                      |
| (sign)                   |        | _            |                            | (sign)           |             |           |           |              | -      |         | (sign)   |        |         |      | -    |  | (sign)       | _               |           | _       |     |          |     |        | 95 Coventry Street   |
| Date / Time:             |        |              | Date / Time:<br>Temp. (°C) |                  |             |           |           |              | Date . | / Time. | :        |        |         |      |      | / <i>Time:</i><br>b. ( <sup>c</sup> C) |              |                 |           |         |     |          | So  | outh M | elbourne, VIC 3205   |
| Notes:                   |        |              | Notes:                     |                  |             |           | sent / no |              | Notes  | :       |          |        |         |      | Note |  |              |                 | esent /   |         |     |          | mel | bourne | alab@kleinfelder.com |
|                          |        | _            |                            |                  | E           | seals in  | tact / no | seal         | +      | _       | _        | Organi | c Analy | rtes |      |  | N            | seal i<br>etais | ntact / r | io seal | Oth | er Anal) | des | Phon   | e: 03 9907 6000      |
| Sample ID                | Lab ID | Sample Point | Sample Type                | Date             | Start Depth | End Depth | Units     | # Containers | PAH    | ногр    |          |        |         |      |      |  |              |                 |           |         |     |          |     |        | Comments             |
| SS15_4_0.0-0.1           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            | x      |         |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS15_4_0.3-0.4           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            |        | x       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS15_5_0.0-0.1           |        |              | Soll                       | 16/12/2021       |             |           |           | 1            | x      |         |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS15_5_0.3-0.4           |        |              | Soll                       | 16/12/2021       |             |           |           | 1            |        | x       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS15_6_0.0-0.1           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            | x      |         |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS15_6_0.3-0.4           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            |        | x       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS29_1_0.0_0.1           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            | ×      |         |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS29_1_0.4_0.5           |        |              | Soll                       | 16/12/2021       |             |           |           | 1            |        | x       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| \$\$29_2_0.0_0.1         |        |              | Soil                       | 16/12/2021       |             |           |           | 1            | x      |         |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS29_2_0.4_0.5           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            |        | x       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS29_3_0.0_0.1           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            | x      |         |          |        |         |      | _    |  |              |                 |           |         |     |          |     |        |                      |
| SS29_3_0.4_0.5           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            |        | х       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS29_4_0.0_0.1           |        |              | Solf                       | 16/12/2021       |             |           |           | 1            | x      |         |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS29_4_0.4_0.5           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            |        | ×       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS29_5_0.0_0.1           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            | ×      |         |          |        |         |      | 1    |  |              |                 |           |         |     |          |     |        |                      |
| SS29_5_0.4_0.5           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            |        | x       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS29_6_0.0_0.1           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            | x      |         |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SS29_6_0.4_0.5           |        |              | Soil                       | 16/12/2021       |             |           |           | 1            |        | x       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| SW03_0.0_0.1             |        |              | Soll                       | 16/12/2021       |             |           |           | 1            | x      | x       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| S1                       |        |              | Clay Fragme                | 16/12/2021       |             |           |           | 1            | x      |         |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |
| QC01                     |        |              | Soil                       | 16/12/2021       |             |           |           | 1            | x      |         |          |        |         | _    |      |  |              |                 |           |         |     |          |     |        |                      |
| QC02                     |        |              | Soli                       | 16/12/2021       |             |           |           | 1            | x      |         |          |        |         |      |      |  |              |                 |           |         |     |          |     |        | PLEASE FORWARD TO AL |
| QC03                     |        |              | Soil                       | 16/12/2021       |             |           |           | 1            |        | x       |          |        |         |      |      |  |              |                 |           |         |     |          |     |        |                      |

Sulfach 854 503

| CHAIN OF CUSTODY         |             |              |                  |           |       |                        |     |       |         |         |       |           |    |        |       |              | _     |                       |      |            |            | Sen      | d Results to:                        |
|--------------------------|-------------|--------------|------------------|-----------|-------|------------------------|-----|-------|---------|---------|-------|-----------|----|--------|-------|--------------|-------|-----------------------|------|------------|------------|----------|--------------------------------------|
| Relinquished by (print): |             | Rece         | ived by (print): |           |       |                        |     |       | Relinqu | vished: |       |           |    |        | F     | Received by: |       |                       |      |            |            |          |                                      |
| (sign)                   |             |              | (sign)           |           |       |                        |     |       |         | (sign)  |       |           |    |        |       | (sign)       |       |                       |      |            | Leve       | el 1, 9  | 5 Coventry Street                    |
| Date / Time:             |             | Date / Time: |                  |           |       |                        |     | Date  | Time:   |         |       |           |    | Date / | Time: |              |       |                       |      |            | Sout       | th Mel   | Ibourne, VIC 3205                    |
|                          |             | Temp. (°C)   |                  |           |       |                        |     |       |         |         |       |           |    | Temp.  | (°C)  |              |       |                       |      |            |            |          |                                      |
| Notes:                   |             | Notes:       |                  |           |       | sent / no<br>tact / no |     | Notes |         |         |       |           |    | Notes; |       |              |       | esent /<br>intact / r |      |            |            |          | ab@kleinfelder.com<br>: 03 9907 6000 |
|                          |             | 1            | 1                |           |       |                        | _   |       |         |         | Organ | c Analyte | 86 | 4000   |       | N            | etal≍ |                       | Othe | or Analyte | * <b>5</b> |          |                                      |
| Sample ID Lab ID O       | Sample Type | Date         | Start Depth      | End Depth | Units | # Containers           | РАН | ногр  |         |         |       |           |    |        |       |              |       |                       |      |            |            | Comments |                                      |
| QC04                     |             | Soil         | 16/12/2021       |           |       |                        | 1   |       | x       |         |       |           |    |        |       |              |       |                       |      |            |            |          | PLEASE FORWARD TO ALS                |
| QC05                     |             | Water        | 16/12/2021       |           |       |                        | 3   | ×     |         |         |       |           |    |        |       |              |       |                       |      |            |            |          |                                      |
|                          |             |              |                  |           |       |                        |     |       |         |         |       |           |    |        |       |              |       |                       |      |            |            |          |                                      |
|                          |             |              |                  |           |       |                        |     | 1     |         |         |       |           |    |        |       | -            | -     |                       |      |            |            |          |                                      |

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| CHAIN OF CUSTODY         |        |              |             | 1 4 1         |             | _         |          |              |        | Rolina | ulshed: |           |         | 1     | Received by:      |                              |            |        |       |         |       |       | Results to:                          |
|--------------------------|--------|--------------|-------------|---------------|-------------|-----------|----------|--------------|--------|--------|---------|-----------|---------|-------|-------------------|------------------------------|------------|--------|-------|---------|-------|-------|--------------------------------------|
| Relinquished by (print): |        |              | Receive     | d by (print): |             |           |          |              |        | nonng  | (sign)  |           |         |       | (sign)            |                              |            |        |       |         | Loval | 1 05  | Coventry Street                      |
| (sign)                   |        |              |             | (sign)        |             |           |          |              | -      |        | 137     |           |         | Data  |                   | -                            |            |        |       |         |       |       | oume, VIC 3205                       |
| Date / Time:             |        |              | ate / Time: |               | _           |           |          |              | Date / | Time:  | -       |           |         |       | / Time:<br>. (°C) |                              |            |        |       |         | ••••  |       |                                      |
| Notes:                   |        |              | emp. (°C)   |               |             | ce pres   | ent/no   | ice          | Notes  | :      |         |           |         | Notes |                   |                              | resent /   |        |       |         |       |       | billikleinfelder.com<br>03 9907 6000 |
|                          |        | ~            | lotes:      |               | s           | eals int  | act / no | seal         | -      | -      |         | Organic / | nalvtes |       |                   | seals <sub>i</sub><br>Netais | intact / r | 0 5681 | Other | Analyte | _     | ione. | 03 9901 0000                         |
| Sample ID                | Lab ID | Sample Point | Sample Type | Date          | Start Depth | End Depth | Units    | # Containers | PAH    | HOLD   |         |           |         |       |                   | 1                            |            |        |       |         |       |       | Comments                             |
| SS15_4_0.0-0.1           |        | s            | Soil        | 16/12/2021    |             |           |          | 1            | x      |        |         |           |         |       |                   | _                            |            |        |       |         |       | _     |                                      |
| SS15_4_0.3-0.4           |        | s            | Soil        | 16/12/2021    |             |           |          | 1            | -      | x      |         | _         |         | _     |                   | -                            |            |        |       | -       |       | +     |                                      |
| SS15_5_0.0-0.1           |        | s            | Soil        | 16/12/2021    |             |           |          | 1            | x      |        |         |           |         |       |                   | -                            | _          |        |       | _       |       | -     |                                      |
| SS15_5_0.3-0.4           |        | s            | Soil        | 16/12/2021    |             |           |          | 1            | -      | x      |         | _         |         |       |                   | -                            |            |        |       | _       | _     | -     |                                      |
| SS15_6_0.0-0.1           |        | S            | Soil        | 16/12/2021    |             |           |          | 1            | X      |        |         | _         |         | _     |                   | -                            |            |        |       |         |       | _     |                                      |
| SS15_6_0.3-0.4           |        | s            | Soil        | 16/12/2021    |             |           |          | 1            |        | ×      |         |           |         | _     |                   | -                            |            |        |       | -       |       | -     |                                      |
| SS29_1_0.0_0.1           |        | s            | Soil        | 16/12/2021    |             |           |          | 1            | X      |        |         | _         |         |       |                   | -                            |            |        |       |         |       | -+    |                                      |
| SS29_1_0.4_0.5           |        | 5            | Soli        | 16/12/2021    |             |           |          | 1            |        | ×      |         | _         |         |       |                   | -                            | -          |        |       | -       |       | -     |                                      |
| SS29_2_0.0_0.1           |        | s            | Soil        | 16/12/2021    |             | _         |          | 1            | X      | _      |         |           |         |       |                   | -                            | -          |        |       |         |       | -     |                                      |
| SS29_2_0.4_0.5           |        | 5            | Soil        | 16/12/2021    |             |           |          | 1            | -      | ×      |         |           | + +     | _     |                   | -                            |            |        |       | -       |       | -     |                                      |
| SS29_3_0.0_0.1           |        | 8            | Soil        | 16/12/2021    |             |           |          | 1            | ×      | -      |         | _         | + +     | _     |                   |                              |            |        |       |         |       | -     |                                      |
| SS29_3_0.4_0.5           |        | 5            | Sail        | 16/12/2021    |             | -         |          | 1            | -      | ×      | -       |           |         |       |                   |                              | -          |        |       | -       |       | -     |                                      |
| SS29_4_0.0_0.1           |        | 5            | Soll        | 16/12/2021    |             |           |          | 1            | x      |        |         |           |         | _     |                   | -                            | -          |        |       |         |       | -     |                                      |
| SS29_4_0.4_0.5           |        | 5            | Soil        | 16/12/2021    |             |           | -        | 1            | -      | X      | -       | _         | -       |       |                   | -                            |            |        |       |         |       | -     |                                      |
| SS29_5_0.0_0.1           |        | 5            | Soil        | 16/12/2021    |             |           | -        | 1            | X      | -      | -       |           |         | _     |                   |                              | -          |        |       |         |       | -     |                                      |
| SS29_5_0.4_0.5           |        | 2            | Soil        | 16/12/2021    |             |           |          | 1            |        | ×      |         |           |         |       |                   | -                            | -          |        | _     | _       |       | -     |                                      |
| SS29_6_0.0_0.1           |        | 1            | Soil        | 16/12/2021    |             | _         |          | 1            | x      | -      | -       |           | _       |       |                   | -                            | -          |        |       |         | _     | _     |                                      |
| SS29_6_0.4_0.5           |        | 1            | Soil        | 16/12/2021    |             |           |          | 1            | -      | ×      |         |           | -       |       | <u></u>           | -                            | -          |        |       | _       |       |       |                                      |
| SW03_0.0_0.1             |        | 1            | Soll        | 16/12/2021    |             |           |          | 1            | x      | ×      |         |           | _       |       |                   |                              | -          |        |       | -       |       |       |                                      |
| S1                       |        |              | Clay Fragme | 16/12/2021    |             |           |          | 1            | X      | -      | -       |           | -       |       |                   |                              |            |        |       |         |       |       |                                      |
| QC01                     |        | 1            | Soil        | 16/12/2021    |             |           |          | 1            | X      |        | -       |           |         |       |                   | -                            | -          |        |       |         |       | _     |                                      |
| QC02                     |        |              | Soil        | 16/12/2021    |             |           |          | 1            | ×      |        |         |           |         |       |                   |                              | -          | -      |       |         | -     | _     | PLEASE FORWARD TO AL                 |
| QC03                     |        |              | Soil        | 16/12/2021    |             |           |          | 1            |        | X      |         |           | _       | _     |                   |                              |            |        |       |         |       |       |                                      |

Sulforah 854,503

| CHAIN OF CUSTODY         |         |            | -            | 1 11                        |           |           |                               | - 1      | Re       | linguishe | ed: |          |         |     | Re        | ceived by: | · ·                  |                                |             |         |                       |
|--------------------------|---------|------------|--------------|-----------------------------|-----------|-----------|-------------------------------|----------|----------|-----------|-----|----------|---------|-----|-----------|------------|----------------------|--------------------------------|-------------|---------|-----------------------|
| Relinquished by (print): |         | _          | Rece         | elved by (print):<br>(sign) |           |           |                               | -        |          | (sig      | -   |          |         |     |           | (sign)     |                      |                                |             |         | 1, 95 Coventry Street |
| (sign)                   |         |            | Date / Time: |                             | -         |           | _                             | -        | Date / T | ime:      |     |          |         | Dat | e / Time: |            |                      |                                |             | South   | Melbourne, VIC 3205   |
| Date / Time:             |         | _          | Temp. (°C)   |                             | -         |           |                               |          |          |           |     |          |         | Ten | np. (°C)  |            |                      |                                |             | melhour | nelab@kleinfelder.com |
| Notes:                   |         |            | Notes:       |                             |           | ce pres   | ent / no ice<br>act / no seal | - 1      | Notes:   |           |     |          |         | Not | 95:       |            | ice prei<br>seals in | ent / no ice<br>lact / no seal |             | Ph      | one: 03 9907 6000     |
|                          |         | 1          | Notes.       | 1                           | S         | eals int  | ACT / NO SHAT                 | -        |          |           | 0   | rganic A | nalytes | -   | - 1       | Ň          | etals                |                                | Other Analy | 105     | -                     |
| Sample ID                | iLab ID | mple Point | mple Type    | Date                        | art Depth | End Depth | Units<br># Containers         |          | H        | OLD       |     |          |         |     |           |            |                      |                                |             |         | Comments              |
|                          |         | ŝ          | ő            |                             | - OT      | m         | 5 #                           | <u>k</u> |          | x         | -   |          |         |     |           | 1          |                      |                                |             |         | PLEASE FORWARD TO     |
| QC04                     |         | -          | Soil         | 16/12/2021                  | -         | -         |                               |          |          |           | -   | -        | ++      |     | -         |            |                      |                                |             |         |                       |
| QC05                     |         |            | Water        | 16/12/2021                  |           |           | 3                             | 3        | ×        |           |     |          |         | _   | _         |            | -                    |                                |             | ++-     |                       |
|                          |         |            |              |                             |           |           |                               |          |          |           |     |          |         |     |           |            |                      |                                |             |         |                       |
|                          |         |            |              | -                           |           |           |                               |          |          |           |     |          |         |     |           |            |                      |                                |             |         |                       |
|                          |         | -          | -            |                             |           |           |                               |          |          |           |     |          | -       | _   | -         |            | -                    |                                |             |         |                       |

Sullerah 854,503

### **RE: Esky Pickup**

Jeremy McDonnell <JMcDonnell@Kleinfelder.com>

Tue 11/01/2022 12:02 PM

To: Callum McEwan <CallumMcEwan@eurofins.com>; #AU\_CAU001\_EnviroSampleVic <EnviroSampleVic@eurofins.com> Cc: Matt Kiraz <MKiraz@kleinfelder.com>; Harry Bacalis <HarryBacalis@eurofins.com>

**EXTERNAL EMAIL\*** 

Hi Callum,

Please find attached the COC including the requested analysis of the samples previously collected and currently on hold at the lab.

Regards,

Jeremy McDonnell, BSc, MEnvSus Project Manager

Level 1, 95 Coventry St South Melbourne, VIC 3205 o| + (61) 3 9907 6000 d| + (61) 3 9900 0036 m| + (61) 408 156 078





This email may contain confidential information. If you have received this email—including any attachments—in error, please notify the sender promptly and delete the email and any attachments from all of your systems.

From: Jeremy McDonnell
Sent: Tuesday, 4 January 2022 11:31 AM
To: #AU\_CAU001\_EnviroSampleVic <EnviroSampleVic@eurofins.com>; Callum McEwan
<CallumMcEwan@eurofins.com>; Matt Kiraz <MKiraz@kleinfelder.com>
Cc: Harry Bacalis <HarryBacalis@eurofins.com>
Subject: RE: Esky Pickup

Hi Callum,

Thanks for the call last week.

As discussed, we will send through the analytical request for the soil samples as soon as possible.

In the meantime, please continue to keep these samples on hold.

## 🔅 eurofins

### Environment Testing **PROJECT INFORMATION**

| Date Received:     | 17/12/21-5.29 pu |
|--------------------|------------------|
| Company:           |                  |
| Contact person:    |                  |
| Contact Number:    |                  |
| Contact E-mail:    |                  |
| Project Name/site: | Glenlyon         |

| Project | Number:                              | 2eskies<br>Ct  |
|---------|--------------------------------------|--|
| COC:    | Attached<br>E-mailed<br>Not received | Chilled:<br>temp:<br>Correction:<br>Final Temp:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>C |

| Last modified on: 16 October 2019        | Approved on: 16 October 2019  | Version: QS1039_R2                         |
|--|-------------------------------|--|
| Last modified by: H. Le                  | Approver: M. Makarios         | Page 1 of 1                                |
| Editorial Committee: T. Lakeland, F. Sar |                               | Next required review date: 16 October 2022 |
| Editorial Committee: 1. Lakeland, P. Sar | ijaya, II. Eo, III. Hondi 100 |  |

Sultorah 854503



Kleinfelder Australia Pty Ltd (VIC) Level 1, 95 Coventry St South Melbourne VIC 3205

Attention:

Jeremy McDonnell

Report Project name Project ID Received Date 851670-W-V2 GLENLYON EMP 20223763.001A Dec 17, 2021

| Client Sample ID  |       |      | SW01_1       | SW01_2       | SW02         | SW03         |
|---|-------|------|--------------|--------------|--------------|--------------|
| Sample Matrix   |       |      | Water        | Water        | Water        | Water        |
| Eurofins Sample No.   |       |      | M21-De46405  | M21-De46406  | M21-De46407  | M21-De46408  |
| Date Sampled  |       |      | Dec 16, 2021 | Dec 16, 2021 | Dec 16, 2021 | Dec 16, 2021 |
| Test/Reference  | LOR   | Unit |              |              |              |              |
| Polycyclic Aromatic Hydrocarbons                              | ł     |      |              |              |              |              |
| Acenaphthene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Acenaphthylene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Anthracene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Benz(a)anthracene   | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Benzo(a)pyrene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Benzo(b&j)fluoranthene <sup>N07</sup>                         | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Benzo(g.h.i)perylene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Benzo(k)fluoranthene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Chrysene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Dibenz(a.h)anthracene   | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Fluoranthene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Fluorene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Indeno(1.2.3-cd)pyrene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Naphthalene   | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Phenanthrene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Pyrene  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Total PAH*  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| 2-Fluorobiphenyl (surr.)                                      | 1     | %    | 88           | 86           | 86           | 109          |
| p-Terphenyl-d14 (surr.)                                       | 1     | %    | 118          | 110          | 120          | 106          |
| Ammonia (as N)  | 0.01  | mg/L | < 0.01       | 0.02         | 0.04         | 0.10         |
| Chloride  | 1     | mg/L | 13           | 13           | 13           | 46           |
| Nitrate & Nitrite (as N)                                      | 0.05  | mg/L | 0.23         | 0.23         | 0.24         | < 0.05       |
| Nitrate (as N)  | 0.02  | mg/L | 0.23         | 0.23         | 0.24         | < 0.02       |
| Nitrite (as N)  | 0.02  | mg/L | < 0.02       | < 0.02       | < 0.02       | < 0.02       |
| Phosphate total (as P)  | 0.01  | mg/L | 0.01         | 0.01         | 0.01         | 0.13         |
| Sulphate (as SO4)   | 5     | mg/L | < 5          | < 5          | < 5          | < 5          |
| Total Dissolved Solids Dried at $180^{\circ}C \pm 2^{\circ}C$ | 10    | mg/L | 91           | 150          | 120          | 390          |
| Total Kjeldahl Nitrogen (as N)                                | 0.2   | mg/L | 0.9          | 0.4          | < 0.2        | 3.4          |
| Total Nitrogen (as N)*  | 0.2   | mg/L | 1.13         | 0.63         | 0.24         | 3.4          |
| Total Suspended Solids Dried at 103–105°C                     | 5     | mg/L | 5.2          | < 5          | < 5          | 41           |
| Alkalinity (speciated)  | I     |      |              |              |              |              |
| Bicarbonate Alkalinity (as CaCO3)                             | 20    | mg/L | 50           | 47           | 51           | 320          |
| Carbonate Alkalinity (as CaCO3)                               | 10    | mg/L | < 10         | < 10         | < 10         | 13           |



NATA

NATA Accredited Accreditation Number 1261 Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.



| Client Sample ID    |        |      | SW01_1       | SW01_2       | SW02         | SW03         |
|---------------------|--------|------|--------------|--------------|--------------|--------------|
| Sample Matrix       |        |      | Water        | Water        | Water        | Water        |
| Eurofins Sample No. |        |      | M21-De46405  | M21-De46406  | M21-De46407  | M21-De46408  |
| Date Sampled        |        |      | Dec 16, 2021 | Dec 16, 2021 | Dec 16, 2021 | Dec 16, 2021 |
| Test/Reference      | LOR    | Unit |              |              |              |              |
| Alkali Metals       |        |      |              |              |              |              |
| Calcium             | 0.5    | mg/L | 3.8          | 3.8          | 3.8          | 25           |
| Magnesium           | 0.5    | mg/L | 4.6          | 4.7          | 4.6          | 26           |
| Potassium           | 0.5    | mg/L | 1.0          | 1.0          | 1.0          | 1.7          |
| Sodium              | 0.5    | mg/L | 12           | 12           | 12           | 77           |
| Heavy Metals        |        |      |              |              |              |              |
| Arsenic (filtered)  | 0.001  | mg/L | < 0.001      | < 0.001      | < 0.001      | 0.004        |
| Cadmium (filtered)  | 0.0002 | mg/L | < 0.0002     | < 0.0002     | < 0.0002     | < 0.0002     |
| Chromium (filtered) | 0.001  | mg/L | < 0.001      | < 0.001      | < 0.001      | 0.001        |
| Copper (filtered)   | 0.001  | mg/L | 0.001        | < 0.001      | < 0.001      | 0.005        |
| Lead (filtered)     | 0.001  | mg/L | < 0.001      | < 0.001      | < 0.001      | 0.003        |
| Nickel (filtered)   | 0.001  | mg/L | < 0.001      | < 0.001      | < 0.001      | 0.004        |
| Zinc (filtered)     | 0.005  | mg/L | < 0.005      | < 0.005      | < 0.005      | 0.006        |

| Client Sample ID                            |       |      | SW04         | SW05         | QC01         | QC02         |
|---|-------|------|--------------|--------------|--------------|--------------|
| Sample Matrix                               |       |      | Water        | Water        | Water        | Water        |
| Eurofins Sample No.                         |       |      | M21-De46409  | M21-De46410  | M21-De46411  | M21-De46412  |
| Date Sampled                                |       |      | Dec 16, 2021 | Dec 16, 2021 | Dec 16, 2021 | Dec 16, 2021 |
| Test/Reference                              | LOR   | Unit |              |              |              |              |
| Polycyclic Aromatic Hydrocarbons            |       |      |              |              |              |              |
| Acenaphthene                                | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Acenaphthylene                              | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Anthracene                                  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Benz(a)anthracene                           | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Benzo(a)pyrene                              | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Benzo(b&j)fluoranthene <sup>N07</sup>       | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Benzo(g.h.i)perylene                        | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Benzo(k)fluoranthene                        | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Chrysene                                    | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Dibenz(a.h)anthracene                       | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Fluoranthene                                | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Fluorene                                    | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Indeno(1.2.3-cd)pyrene                      | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Naphthalene                                 | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Phenanthrene                                | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Pyrene                                      | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| Total PAH*                                  | 0.001 | mg/L | < 0.001      | < 0.001      | < 0.001      | < 0.001      |
| 2-Fluorobiphenyl (surr.)                    | 1     | %    | 83           | 81           | 90           | 70           |
| p-Terphenyl-d14 (surr.)                     | 1     | %    | 65           | 77           | 77           | 56           |
|   |       |      |              |              |              |              |
| Ammonia (as N)                              | 0.01  | mg/L | 0.05         | 0.02         | 0.03         | -            |
| Chloride                                    | 1     | mg/L | 61           | 13           | 13           | -            |
| Nitrate & Nitrite (as N)                    | 0.05  | mg/L | < 0.05       | 0.24         | 0.24         | -            |
| Nitrate (as N)                              | 0.02  | mg/L | < 0.02       | 0.24         | 0.23         | -            |
| Nitrite (as N)                              | 0.02  | mg/L | < 0.02       | < 0.02       | < 0.02       | -            |
| Phosphate total (as P)                      | 0.01  | mg/L | 0.01         | 0.01         | 0.03         | -            |
| Sulphate (as SO4)                           | 5     | mg/L | < 5          | < 5          | < 5          | -            |
| Total Dissolved Solids Dried at 180°C ± 2°C | 10    | mg/L | 850          | 61           | 37           | -            |
| Total Kjeldahl Nitrogen (as N)              | 0.2   | mg/L | < 0.2        | < 0.2        | 0.8          | -            |



| Client Sample ID<br>Sample Matrix<br>Eurofins Sample No.<br>Date Sampled<br>Test/Reference | LOR    | Unit | SW04<br>Water<br>M21-De46409<br>Dec 16, 2021 | SW05<br>Water<br>M21-De46410<br>Dec 16, 2021 | QC01<br>Water<br>M21-De46411<br>Dec 16, 2021 | QC02<br>Water<br>M21-De46412<br>Dec 16, 2021 |
|--|--------|------|--|--|--|--|
| Total Nitrogen (as N)*   | 0.2    | mg/L | < 0.2  | 0.24   | 1.04   | -  |
| Total Suspended Solids Dried at 103–105°C<br>Alkalinity (speciated)                        | 5      | mg/L | 8.2  | 22   | 8.9  | -  |
| Bicarbonate Alkalinity (as CaCO3)  | 20     | mg/L | 790  | 51   | 52   | -  |
| Carbonate Alkalinity (as CaCO3)  | 10     | mg/L | 55   | < 10   | < 10   | -  |
| Alkali Metals  |        |      |  |  |  |  |
| Calcium  | 0.5    | mg/L | 54   | 3.9  | 3.9  | -  |
| Magnesium  | 0.5    | mg/L | 78   | 4.8  | 4.9  | -  |
| Potassium  | 0.5    | mg/L | 2.6  | 1.1  | 1.0  | -  |
| Sodium   | 0.5    | mg/L | 150  | 12   | 13   | -  |
| Heavy Metals   |        |      |  |  |  |  |
| Arsenic (filtered)   | 0.001  | mg/L | < 0.001                                      | < 0.001                                      | < 0.001                                      | < 0.001                                      |
| Cadmium (filtered)   | 0.0002 | mg/L | < 0.0002                                     | < 0.0002                                     | < 0.0002                                     | < 0.0002                                     |
| Chromium (filtered)  | 0.001  | mg/L | < 0.001                                      | < 0.001                                      | < 0.001                                      | < 0.001                                      |
| Copper (filtered)  | 0.001  | mg/L | < 0.001                                      | < 0.001                                      | < 0.001                                      | < 0.001                                      |
| Lead (filtered)  | 0.001  | mg/L | < 0.001                                      | < 0.001                                      | < 0.001                                      | < 0.001                                      |
| Nickel (filtered)  | 0.001  | mg/L | 0.002  | < 0.001                                      | < 0.001                                      | < 0.001                                      |
| Zinc (filtered)  | 0.005  | mg/L | < 0.005                                      | < 0.005                                      | < 0.005                                      | < 0.005                                      |

| Client Sample ID<br>Sample Matrix     |       |      | RINSATE<br>Water |
|---------------------------------------|-------|------|------------------|
| Eurofins Sample No.                   |       |      | M21-De46413      |
| Date Sampled                          |       |      | Dec 16, 2021     |
| Test/Reference                        | LOR   | Unit |                  |
| Polycyclic Aromatic Hydrocarbons      |       |      |                  |
| Acenaphthene                          | 0.001 | mg/L | < 0.001          |
| Acenaphthylene                        | 0.001 | mg/L | < 0.001          |
| Anthracene                            | 0.001 | mg/L | < 0.001          |
| Benz(a)anthracene                     | 0.001 | mg/L | < 0.001          |
| Benzo(a)pyrene                        | 0.001 | mg/L | < 0.001          |
| Benzo(b&j)fluoranthene <sup>N07</sup> | 0.001 | mg/L | < 0.001          |
| Benzo(g.h.i)perylene                  | 0.001 | mg/L | < 0.001          |
| Benzo(k)fluoranthene                  | 0.001 | mg/L | < 0.001          |
| Chrysene                              | 0.001 | mg/L | < 0.001          |
| Dibenz(a.h)anthracene                 | 0.001 | mg/L | < 0.001          |
| Fluoranthene                          | 0.001 | mg/L | < 0.001          |
| Fluorene                              | 0.001 | mg/L | < 0.001          |
| Indeno(1.2.3-cd)pyrene                | 0.001 | mg/L | < 0.001          |
| Naphthalene                           | 0.001 | mg/L | < 0.001          |
| Phenanthrene                          | 0.001 | mg/L | < 0.001          |
| Pyrene                                | 0.001 | mg/L | < 0.001          |
| Total PAH*                            | 0.001 | mg/L | < 0.001          |
| 2-Fluorobiphenyl (surr.)              | 1     | %    | 76               |
| p-Terphenyl-d14 (surr.)               | 1     | %    | 84               |



#### Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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 |
|--|--------------|--------------|--------------|
| Polycyclic Aromatic Hydrocarbons   | Melbourne    | Dec 21, 2021 | 7 Days       |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water                   |              |              |              |
| Total Suspended Solids Dried at 103–105°C                                  | Melbourne    | Dec 21, 2021 | 7 Days       |
| - Method: LTM-INO-4070 Analysis of Suspended Solids in Water by Gravimetry |              |              |              |
| Heavy Metals (filtered)  | Melbourne    | Jan 10, 2022 | 180 Days     |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS       |              |              |              |
| Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P                  |              |              |              |
| Ammonia (as N)   | Melbourne    | Dec 21, 2021 | 28 Days      |
| - Method: APHA 4500-NH3 Ammonia Nitrogen by FIA                            |              |              |              |
| Nitrate & Nitrite (as N)   | Melbourne    | Dec 21, 2021 | 28 Days      |
| - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA                      |              |              |              |
| Nitrate (as N)   | Melbourne    | Dec 21, 2021 | 28 Days      |
| - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA                      |              |              |              |
| Nitrite (as N)   | Melbourne    | Dec 21, 2021 | 2 Days       |
| - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA                      |              |              |              |
| Phosphate total (as P)   | Melbourne    | Dec 21, 2021 | 28 Days      |
| - Method: LTM-INO-4040 Phosphate by CFA                                    |              |              |              |
| Total Kjeldahl Nitrogen (as N)   | Melbourne    | Dec 21, 2021 | 28 Days      |
| - Method: APHA 4500-Norg B,D Total Kjeldahl Nitrogen by FIA                |              |              |              |
| Major Anions   |              |              |              |
| Chloride   | Melbourne    | Dec 21, 2021 | 28 Days      |
| - Method: LTM-INO-4090 Chloride by Discrete Analyser                       |              |              |              |
| Sulphate (as SO4)  | Melbourne    | Dec 21, 2021 | 28 Days      |
| - Method: LTM-INO-4110 Sulfate by Discrete Analyser                        |              |              |              |
| Alkalinity (speciated)   | Melbourne    | Dec 21, 2021 | 14 Days      |
| - Method: LTM-INO-4250 Alkalinity by Electrometric Titration               |              |              |              |
| Total Dissolved Solids Dried at 180°C ± 2°C                                | Melbourne    | Dec 21, 2021 | 28 Days      |
| - Method: LTM-INO-4170 Total Dissolved Solids in Water                     |              |              |              |
| Major Cations  |              |              |              |
| Alkali Metals  | Melbourne    | Jan 10, 2022 | 180 Days     |
| - Method: LTM-MET-3010 Alkali Metals Sulfur Silicon Phosphorus by ICP-AES  |              |              |              |
|  |              |              |              |

| web: w<br>email: I<br>Co<br>Ad<br>Pro | eurofins.com.au<br>EnviroSales@eurofins<br>mpany Name:<br>dress:<br>bject Name:<br>bject ID: | .com         | urne<br>EMP      |        | Eurofins Environme<br>ABN: 50 005 085 521<br>Melbourne<br>6 Monterey Road<br>Dandenong South VIC 3<br>Phone : +61 3 8564 500<br>NATA # 1261 Site # 1254 | <b>S</b><br>U<br>175 1<br>0 L<br>4 P | ydney<br>Init F3, I<br>6 Mars<br>ane Co<br>hone : -<br>IATA #<br>0<br>R<br>P | Building<br>Road<br>ve West<br>⊦61 2 99 | F<br>: NSW 2<br>900 840<br>te # 182<br><b>No.:</b><br>#: | 8<br>1/<br>0066 Pl<br>0 N.<br>17<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | lurarrie<br>hone : -<br>ATA # <sup>-</sup><br>35167<br>)3 99( | allwood<br>QLD 41<br>+61 7 39<br>1261 Sit | 02 4600<br>e # 2079 | 4,<br>N<br>) P<br>94 P           | O Box 6<br>hone : + | strial D<br>East NS<br>0 Wick<br>61 2 49 | SW 2304<br>ham 229<br>968 8448<br>te # 2507               | - A<br>44<br>3 P<br>9                   | BN: 91 05 0159 898<br>erth<br>6-48 Banksia Road<br>Velshpool WA 6106<br>hone : +61 8 6253 4444<br>IATA # 2377 Site # 2370<br>Received:<br>Due:<br>Priority:<br>Contact Name: | Eurofins Environment<br>NZBN: 9429046024954<br>Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone: +64 9 526 45 51<br>IANZ # 1327<br>Dec 17, 2021 5:29<br>Jan 6, 2022<br>10 Day<br>Jeremy McDonnell | Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7675<br>Phone : 0800 856 450<br>IANZ # 1290 |
|---------------------------------------|--|--------------|------------------|--------|---|--------------------------------------|--|---|--|--|---|---|---------------------|----------------------------------|---------------------|--|---|---|--|---|---|
|                                       |  | Sa           | mple Detail      |        |   | Arsenic (filtered)                   | Cadmium (filtered)   | Chromium (filtered)                     | Copper (filtered)  | Lead (filtered)  | Nickel (filtered)   | Total Suspended Solids Dried at 103–105°C | Zinc (filtered)     | Polycyclic Aromatic Hydrocarbons | Major Anions        | Major Cations                            | Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P | Total Dissolved Solids Dried at 180°C ± | Ins Analytical Serv  | ices Manager : Mich   | ael Cassidy   |
|                                       |  |              |                  |        |   |                                      |  |   |  |  |   | 5°C                                       |                     |                                  |                     |  |   | 2°C                                     |  |   |   |
|                                       | ourne Laborato   |              |                  | 4      |   | X                                    | X  | Х                                       | X  | Х  | Х   | X   | Х                   | Х                                | x                   | Х  | x   | Х                                       | -  |   |   |
|                                       | ney Laboratory   |              |                  |        |   |                                      |  |   |  |  |   |   |                     |                                  |                     |  |   |   | -  |   |   |
|                                       | bane Laboratory  |              |                  |        |   |                                      |  |   |  |  |   |   |                     |                                  |                     |  |   |   | -  |   |   |
|                                       | field Laboratory<br>h Laboratory - N   |              |                  |        |   |                                      |  |   |  |  |   |   |                     |                                  |                     |  | $\left  \right $  |   | -  |   |   |
|                                       | rnal Laboratory  |              |                  |        |   |                                      |  |   |  |  |   |   |                     |                                  |                     |  |   |   | -  |   |   |
| No                                    | Sample ID  | Sample Date  | Sampling<br>Time | Matrix | LAB ID  |                                      |  |   |  |  |   |   |                     |                                  |                     |  |   |   | -  |   |   |
| 1                                     | SW01 1   | Dec 16, 2021 | 11110            | Water  | M21-De46405   | х                                    | X  | Х                                       | Х  | х  | Х   | X   | х                   | Х                                | x                   | х  | x   | Х                                       | 1  |   |   |
| 2                                     | SW01_2   | Dec 16, 2021 |                  | Water  | M21-De46406   | Х                                    | X  | х                                       | X  | х  | Х   | Х   | х                   | Х                                | x                   | Х  | X   | Х                                       | 1  |   |   |
| 3                                     | SW02   | Dec 16, 2021 |                  | Water  | M21-De46407   | Х                                    | Х  | Х                                       | Х  | х  | Х   | х   | х                   | Х                                | х                   | Х  | х   | Х                                       | ]  |   |   |
| 4                                     | SW03   | Dec 16, 2021 |                  | Water  | M21-De46408   | Х                                    | Х  | х                                       | х  | Х  | Х   | Х   | Х                   | Х                                | Х                   | Х  | х   | Х                                       |  |   |   |
| 5                                     | SW04   | Dec 16, 2021 |                  | Water  | M21-De46409   | Х                                    | х  | х                                       | х  | х  | Х   | х   | х                   | Х                                | x                   | Х  | х   | Х                                       | 1  |   |   |
| 6                                     | SW05   | Dec 16, 2021 |                  | Water  | M21-De46410   | Х                                    | X  | х                                       | x  | х  | Х   | X   | х                   | Х                                | x                   | Х  | x   | Х                                       | 4  |   |   |
| 7                                     | QC01   | Dec 16, 2021 |                  | Water  | M21-De46411   | Х                                    | X  | Х                                       | х  | Х  | Х   | X   | Х                   | Х                                | X                   | Х  | х   | Х                                       | 4  |   |   |
| 8                                     | QC02   | Dec 16, 2021 |                  | Water  | M21-De46412   | Х                                    | X  | Х                                       | X  | X  | Х   |   | Х                   | Х                                |                     |  |   |   | 4  |   |   |
| 9                                     | RINSATE  | Dec 16, 2021 |                  | Water  | M21-De46413   |                                      |  |   |  |  |   |   |                     | Х                                |                     |  |   |   |  |   |   |

| 🛟 eurofir  |   | Eurofins Environmen<br>ABN: 50 005 085 521   | nt Tes             | sting A  | Austral                         | lia Pty                  |   |                           |   |   |                                  |              |                  |  |   | Eurofins ARL Pty Ltd<br>ABN: 91 05 0159 898   | Eurofins Environmen<br>NZBN: 9429046024954                     |             |
|--|---|--|--------------------|--|---------------------------------|--------------------------|---|---------------------------|---|---|----------------------------------|--------------|------------------|--|---|---|--|-------------|
| web: www.eurofins.com.au<br>email: EnviroSales@eurofins.cc | Environment Testing   | Melbourne<br>6 Monterey Road<br>Dandenong South VIC 3175<br>Phone : +61 3 8564 5000<br>NATA # 1261 Site # 1254 |                    | Unit F3, Building F<br>5 16 Mars Road<br>Lane Cove West NSW 2066 |                                 | 1/<br>M<br>2066 P<br>0 N | Brisbane<br>1/21 Smallwood Place<br>Murarrie QLD 4172<br>Phone: +61 7 3902 4600<br>NATA # 1261 Site # 20794 |                           | 4<br>N<br>0 F<br>94 F                     | Newcastle<br>4/52 Industrial Drive<br>Mayfield East NSW 2304<br>PO Box 60 Wickham 2293<br>Phone : +61 2 4968 8448<br>NATA # 1261 Site # 25079 |                                  |              | 4 \<br>93  <br>8 | Perth<br>16-48 Banksia Road<br>Welshpool WA 6106<br>Phone : +61 8 6253 4444<br>NATA # 2377 Site # 2370 | Auckland<br>35 O'Rorke Road<br>Penrose, Auckland 1061<br>Phone : +64 9 526 45 51<br>IANZ # 1327 | Christchurch<br>43 Detroit Drive<br>Rolleston, Christchurch 7675<br>Phone : 0800 856 450<br>IANZ # 1290 |  |             |
| Company Name:<br>Address:                                  | Kleinfelder Australia Pty Ltd (VIC)<br>Level 1, 95 Coventry St<br>South Melbourne<br>VIC 3205 |  |                    | Re   | rder N<br>eport<br>none:<br>ax: | #:                       | 0   | 35167<br>)3 990<br>)3 990 | 07 600                                    | -   |                                  |              |                  |  |   | Received:<br>Due:<br>Priority:<br>Contact Name:   | Dec 17, 2021 5:29<br>Jan 6, 2022<br>10 Day<br>Jeremy McDonnell | PM          |
| Project Name:<br>Project ID:                               | GLENLYON EMP<br>20223763.001A   |  |                    |  |                                 |                          |   |                           |   |   |                                  |              |                  | I  | Euro  | fins Analytical Serv  | vices Manager : Mich   | ael Cassidy |
|  | Sample Detail   |  | Arsenic (filtered) | Cadmium (filtered)   | Chromium (filtered)             | Copper (filtered)        | Lead (filtered)   | Nickel (filtered)         | Total Suspended Solids Dried at 103–105°C | Zinc (filtered)   | Polycyclic Aromatic Hydrocarbons | Major Anions | Major Cations    | Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P  | Total Dissolved Solids Dried at 180°C ± 2°C   |   |  |             |
| Melbourne Laborator  | y - NATA # 1261 Site # 1254   |  | Х                  | Х  | Х                               | Х                        | Х   | Х                         | Х   | Х   | Х                                | Х            | х                | Х  | Х   |   |  |             |
| Sydney Laboratory -  | NATA # 1261 Site # 18217  |  |                    |  |                                 |                          |   |                           |   |   |                                  |              |                  |  |   |   |  |             |
| Brisbane Laboratory  | - NATA # 1261 Site # 20794  |  |                    |  |                                 |                          |   |                           |   |   |                                  |              |                  |  |   |   |  |             |
| Mayfield Laboratory -                                      | NATA # 1261 Site # 25079  |  |                    |  |                                 |                          |   |                           |   |   |                                  |              |                  |  |   |   |  |             |
| Perth Laboratory - NA                                      | ATA # 2377 Site # 2370  |  |                    |  |                                 |                          |   |                           |   |   |                                  |              |                  |  |   |   |  |             |
| External Laboratory  |   |  |                    |  |                                 |                          |   |                           |   |   |                                  |              |                  |  |   |   |  |             |
| Test Counts  |   |  | 10                 | 10   | 10                              | 10                       | 10  | 10                        | 7   | 10  | 9                                | 7            | 7                | 7  | 7   |   |  |             |



#### Internal Quality Control Review and Glossary

#### General

- 1. 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.
- 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- 7. Samples were analysed on an 'as received' basis.
- 8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- 9. 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.

#### Units

| •••••        |                               |                                    |  |
|--------------|-------------------------------|------------------------------------|--|
| mg/kg: milli | grams per kilogram            | mg/L: milligrams per litre         | μg/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

| 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 5.4  |
| СР               | 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   |
| WA DWER          | Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA  |
|                  |  |

#### QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

#### **QC Data General Comments**

- 1. 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.
- 2. 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.
- 3. 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.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. 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 | A | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
|---|--------|----------|---|----------------------|----------------|--------------------|
| Method Blank                                |        | -        |   |                      |                |                    |
| Polycyclic Aromatic Hydrocarbons            |        |          |   |                      |                |                    |
| Acenaphthene                                | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Acenaphthylene                              | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Anthracene                                  | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Benz(a)anthracene                           | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Benzo(a)pyrene                              | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Benzo(b&j)fluoranthene                      | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Benzo(g.h.i)perylene                        | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Benzo(k)fluoranthene                        | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Chrysene                                    | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Dibenz(a.h)anthracene                       | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Fluoranthene                                | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Fluorene                                    | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Indeno(1.2.3-cd)pyrene                      | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Naphthalene                                 | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Phenanthrene                                | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Pyrene                                      | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Method Blank                                |        |          |   |                      |                |                    |
| Ammonia (as N)                              | mg/L   | < 0.01   |   | 0.01                 | Pass           |                    |
| Chloride                                    | mg/L   | <1       |   | 1                    | Pass           |                    |
| Nitrate & Nitrite (as N)                    | mg/L   | < 0.05   |   | 0.05                 | Pass           |                    |
| Nitrate (as N)                              | mg/L   | < 0.02   |   | 0.02                 | Pass           |                    |
| Nitrite (as N)                              | mg/L   | < 0.02   |   | 0.02                 | Pass           |                    |
| Phosphate total (as P)                      | mg/L   | < 0.02   |   | 0.02                 | Pass           |                    |
| Sulphate (as SO4)                           | mg/L   | < 5      |   | 5                    | Pass           |                    |
| Total Dissolved Solids Dried at 180°C ± 2°C | mg/L   | < 10     |   | 10                   | Pass           |                    |
| Total Kjeldahl Nitrogen (as N)              | mg/L   | < 0.2    |   | 0.2                  | Pass           |                    |
| Total Suspended Solids Dried at 103–105°C   | mg/L   | < 5      |   | 5                    | Pass           |                    |
| Method Blank                                | IIIg/L |          |   | 5                    | 1 855          |                    |
| Alkalinity (speciated)                      |        | L        |   |                      |                |                    |
| Bicarbonate Alkalinity (as CaCO3)           | mg/L   | < 20     |   | 20                   | Pass           |                    |
| Carbonate Alkalinity (as CaCO3)             | ŭ      | < 10     |   | 10                   | Pass           |                    |
| Method Blank                                | mg/L   | < 10     |   | 10                   | Fass           |                    |
| Alkali Metals                               |        |          |   |                      |                |                    |
| Calcium                                     |        | < 0.5    |   | 0.5                  | Pass           |                    |
|   | mg/L   |          |   |                      |                |                    |
| Magnesium                                   | mg/L   | < 0.5    |   | 0.5                  | Pass           |                    |
| Potassium                                   | mg/L   | < 0.5    |   | 0.5                  | Pass           |                    |
| Sodium                                      | mg/L   | < 0.5    |   | 0.5                  | Pass           |                    |
| Method Blank                                |        | L        |   |                      |                |                    |
| Heavy Metals                                |        | 0.004    |   | 0.004                | Dese           |                    |
| Arsenic (filtered)                          | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Cadmium (filtered)                          | mg/L   | < 0.0002 |   | 0.0002               | Pass           |                    |
| Chromium (filtered)                         | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Copper (filtered)                           | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Lead (filtered)                             | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Nickel (filtered)                           | mg/L   | < 0.001  |   | 0.001                | Pass           |                    |
| Zinc (filtered)                             | mg/L   | < 0.005  |   | 0.005                | Pass           |                    |
| LCS - % Recovery                            |        |          |   |                      |                |                    |
| Polycyclic Aromatic Hydrocarbons            |        |          |   |                      |                |                    |
| Acenaphthene                                | %      | 94       |   | 70-130               | Pass           |                    |
| Acenaphthylene                              | %      | 78       |   | 70-130               | Pass           |                    |



| Test                                 |   |                   | Units       | Result 1          | /     | Acceptance<br>Limits       | Pass<br>Limits | Qualifying<br>Code |
|--------------------------------------|---|-------------------|-------------|-------------------|-------|----------------------------|----------------|--------------------|
| Anthracene                           |   |                   | %           | 77                |       | 70-130                     | Pass           |                    |
| Benz(a)anthracene                    |   |                   | %           | 87                |       | 70-130                     | Pass           |                    |
| Benzo(a)pyrene                       |   |                   | %           | 80                |       | 70-130                     | Pass           |                    |
| Benzo(b&j)fluoranthene               |   |                   | %           | 95                |       | 70-130                     | Pass           |                    |
| Benzo(g.h.i)perylene                 |   |                   | %           | 103               |       | 70-130                     | Pass           |                    |
| Benzo(k)fluoranthene                 |   |                   | %           | 84                |       | 70-130                     | Pass           |                    |
| Chrysene                             |   |                   | %           | 107               |       | 70-130                     | Pass           |                    |
| Dibenz(a.h)anthracene                |   |                   | %           | 89                |       | 70-130                     | Pass           |                    |
| Fluoranthene                         |   |                   | %           | 83                |       | 70-130                     | Pass           |                    |
| Fluorene                             |   |                   | %           | 92                |       | 70-130                     | Pass           |                    |
| Indeno(1.2.3-cd)pyrene               |   |                   | %           | 103               |       | 70-130                     | Pass           |                    |
| Naphthalene                          |   |                   | %           | 94                |       | 70-130                     | Pass           |                    |
| Phenanthrene                         |   |                   | %           | 95                |       | 70-130                     | Pass           |                    |
| Pyrene                               |   |                   | %           | 109               |       | 70-130                     | Pass           |                    |
| LCS - % Recovery                     |   |                   |             | 1                 | 1 1 1 |                            | r              |                    |
| Ammonia (as N)                       |   |                   | %           | 109               |       | 70-130                     | Pass           |                    |
| Chloride                             |   |                   | %           | 107               |       | 70-130                     | Pass           |                    |
| Nitrate & Nitrite (as N)             |   |                   | %           | 100               |       | 70-130                     | Pass           |                    |
| Nitrate (as N)                       |   |                   | %           | 100               |       | 70-130                     | Pass           |                    |
| Nitrite (as N)                       |   |                   | %           | 105               |       | 70-130                     | Pass           |                    |
| Phosphate total (as P)               |   |                   | %           | 100               |       | 70-130                     | Pass           |                    |
| Sulphate (as SO4)                    |   |                   | %           | 82                |       | 70-130                     | Pass           |                    |
| Total Dissolved Solids Dried at 180° | C ± 2°C                                   |                   | %           | 100               |       | 70-130                     | Pass           |                    |
| Total Kjeldahl Nitrogen (as N)       |   |                   | %           | 123               |       | 70-130                     | Pass           |                    |
| Total Suspended Solids Dried at 103  | 3–105°C                                   |                   | %           | 89                |       | 70-130                     | Pass           |                    |
| LCS - % Recovery                     |   |                   |             |                   |       |                            |                |                    |
| Alkalinity (speciated)               |   |                   |             |                   |       |                            |                |                    |
| Carbonate Alkalinity (as CaCO3)      |   |                   | %           | 116               |       | 70-130                     | Pass           |                    |
| LCS - % Recovery                     |   |                   |             |                   |       |                            | -              |                    |
| Alkali Metals                        |   |                   |             |                   |       |                            |                |                    |
| Calcium                              |   |                   | %           | 111               |       | 80-120                     | Pass           |                    |
| Magnesium                            |   |                   | %           | 107               |       | 80-120                     | Pass           |                    |
| Potassium                            |   |                   | %           | 103               |       | 80-120                     | Pass           |                    |
| Sodium                               |   |                   | %           | 96                |       | 80-120                     | Pass           |                    |
| Test                                 | Lab Sample ID                             | QA<br>Source      | Units       | Result 1          |       | Acceptance<br>Limits       | Pass<br>Limits | Qualifying<br>Code |
| Spike - % Recovery                   |   |                   |             |                   |       |                            |                |                    |
| Polycyclic Aromatic Hydrocarbons     |   |                   |             | Result 1          |       |                            |                |                    |
| Acenaphthene                         | S21-De25094                               | NCP               | %           | 91                |       | 70-130                     | Pass           |                    |
| Acenaphthylene                       | S21-De25094                               | NCP               | %           | 99                |       | 70-130                     | Pass           |                    |
| Anthracene                           | S21-De25094                               | NCP               | %           | 84                |       | 70-130                     | Pass           |                    |
| Benz(a)anthracene                    | S21-De25094                               | NCP               | %           | 107               |       | 70-130                     | Pass           |                    |
| Benzo(a)pyrene                       | S21-De25094                               | NCP               | %           | 113               |       | 70-130                     | Pass           |                    |
| Benzo(b&j)fluoranthene               | S21-De25094                               | NCP               | %           | 124               |       | 70-130                     | Pass           |                    |
| Benzo(g.h.i)perylene                 | S21-De25094                               | NCP               | %           | 80                |       | 70-130                     | Pass           |                    |
| Benzo(k)fluoranthene                 | S21-De25094                               | NCP               | %           | 110               |       | 70-130                     | Pass           |                    |
| Chrysene                             | S21-De25094                               | NCP               | %           | 107               |       | 70-130                     | Pass           |                    |
| Dibenz(a.h)anthracene                | S21-De25094                               | NCP               | %           | 88                |       | 70-130                     | Pass           |                    |
| Fluoranthene                         | S21-De25094                               | NCP               | %           | 111               |       | 70-130                     | Pass           |                    |
| Fluorene                             | S21-De25094                               | NCP               | %           | 95                |       | 70-130                     | Pass           |                    |
| Indeno(1.2.3-cd)pyrene               | S21-De25094                               | NCP               | %           | 94                |       | 70-130                     | Pass           |                    |
|                                      |   | -                 |             |                   | 1 1   |                            | Pass           |                    |
| Naphthalene                          | S21-De25094                               | NCP               | %           | 110               |       | 70-130                     | 1 033          |                    |
| Naphthalene                          | S21-De25094<br>S21-De25094                | NCP<br>NCP        | %           |                   |       |                            |                |                    |
| · /· ·                               | S21-De25094<br>S21-De25094<br>S21-De25094 | NCP<br>NCP<br>NCP | %<br>%<br>% | 110<br>116<br>122 |       | 70-130<br>70-130<br>70-130 | Pass<br>Pass   |                    |



| Test                              | Lab Sample ID | QA<br>Source | Units | Result 1 |          |     | Acceptance<br>Limits | Pass<br>Limits | Qualifying<br>Code |
|-----------------------------------|---------------|--------------|-------|----------|----------|-----|----------------------|----------------|--------------------|
|                                   |               |              |       | Result 1 |          |     |                      |                |                    |
| Ammonia (as N)                    | M21-De46405   | CP           | %     | 110      |          |     | 70-130               | Pass           |                    |
| Nitrate & Nitrite (as N)          | M21-De46405   | CP           | %     | 99       |          |     | 70-130               | Pass           |                    |
| Nitrate (as N)                    | M21-De46405   | CP           | %     | 99       |          |     | 70-130               | Pass           |                    |
| Nitrite (as N)                    | M21-De46405   | CP           | %     | 106      |          |     | 70-130               | Pass           |                    |
| Phosphate total (as P)            | M21-De46405   | CP           | %     | 92       |          |     | 70-130               | Pass           |                    |
| Sulphate (as SO4)                 | M21-De38259   | NCP          | %     | 95       |          |     | 70-130               | Pass           |                    |
| Total Kjeldahl Nitrogen (as N)    | S21-De44431   | NCP          | %     | 128      |          |     | 70-130               | Pass           |                    |
| Spike - % Recovery                |               |              |       |          |          |     |                      |                |                    |
| Alkali Metals                     |               |              |       | Result 1 |          |     |                      |                |                    |
| Calcium                           | S21-De48766   | NCP          | %     | 104      |          |     | 75-125               | Pass           |                    |
| Magnesium                         | S21-De48766   | NCP          | %     | 99       |          |     | 75-125               | Pass           |                    |
| Potassium                         | S21-De48766   | NCP          | %     | 103      |          |     | 75-125               | Pass           |                    |
| Sodium                            | M21-De46405   | CP           | %     | 88       |          |     | 75-125               | Pass           |                    |
| Spike - % Recovery                |               |              |       |          |          |     |                      | •              |                    |
| •                                 |               |              |       | Result 1 |          |     |                      |                |                    |
| Total Suspended Solids Dried at   |               |              |       |          |          |     |                      |                |                    |
| 103–105°C                         | M21-De46411   | CP           | %     | 92       |          |     | 70-130               | Pass           |                    |
| Spike - % Recovery                |               |              |       |          |          |     | 1                    | 1              |                    |
| Alkali Metals                     | 1             | 1            |       | Result 1 |          |     |                      |                |                    |
| Sodium                            | M21-De46412   | CP           | %     | 81       |          |     | 75-125               | Pass           |                    |
| Test                              | Lab Sample ID | QA           | Units | Result 1 |          |     | Acceptance<br>Limits | Pass           | Qualifying         |
| Dunlianto                         |               | Source       |       |          |          |     | Limits               | Limits         | Code               |
| Duplicate                         | -             |              |       | Desult 1 | Desult 0 | 000 |                      |                |                    |
| Polycyclic Aromatic Hydrocarbon   |               | NOD          |       | Result 1 | Result 2 | RPD | 0.001                | Deer           |                    |
| Acenaphthene                      | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Acenaphthylene                    | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Anthracene                        | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Benz(a)anthracene                 | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Benzo(a)pyrene                    | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Benzo(b&j)fluoranthene            | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Benzo(g.h.i)perylene              | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Benzo(k)fluoranthene              | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Chrysene                          | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Dibenz(a.h)anthracene             | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Fluoranthene                      | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Fluorene                          | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Indeno(1.2.3-cd)pyrene            | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Naphthalene                       | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Phenanthrene                      | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Pyrene                            | M21-De45492   | NCP          | mg/L  | < 0.001  | < 0.001  | <1  | 30%                  | Pass           |                    |
| Duplicate                         |               |              |       |          |          |     |                      | 1              |                    |
|                                   | I             |              |       | Result 1 | Result 2 | RPD |                      |                |                    |
| Ammonia (as N)                    | M21-De45496   | NCP          | mg/L  | < 0.01   | < 0.01   | <1  | 30%                  | Pass           |                    |
| Chloride                          | M21-De46405   | CP           | mg/L  | 13       | 13       | 2.0 | 30%                  | Pass           |                    |
| Nitrate & Nitrite (as N)          | M21-De46405   | CP           | mg/L  | 0.23     | 0.23     | 1.0 | 30%                  | Pass           |                    |
| Nitrate (as N)                    | M21-De46405   | CP           | mg/L  | 0.23     | 0.22     | 2.0 | 30%                  | Pass           |                    |
| Nitrite (as N)                    | M21-De46405   | CP           | mg/L  | < 0.02   | < 0.02   | <1  | 30%                  | Pass           |                    |
| Phosphate total (as P)            | N21-De38854   | NCP          | mg/L  | 0.07     | 0.07     | 1.0 | 30%                  | Pass           |                    |
| Sulphate (as SO4)                 | M21-De46405   | CP           | mg/L  | < 5      | < 5      | <1  | 30%                  | Pass           |                    |
| Duplicate                         |               |              |       |          | 1 1      |     | 1                    |                |                    |
| Alkalinity (speciated)            | 1             |              |       | Result 1 | Result 2 | RPD |                      |                |                    |
| Bicarbonate Alkalinity (as CaCO3) | M21-De39001   | NCP          | mg/L  | < 20     | < 20     | <1  | 30%                  | Pass           |                    |
| Carbonate Alkalinity (as CaCO3)   | M21-De39001   | NCP          | mg/L  | < 10     | < 10     | <1  | 30%                  | Pass           |                    |



| Duplicate                                 |             |     |      |          |          |     |     |      |  |
|---|-------------|-----|------|----------|----------|-----|-----|------|--|
| Alkali Metals                             |             |     |      | Result 1 | Result 2 | RPD |     |      |  |
| Calcium                                   | S21-De48766 | NCP | mg/L | 25       | 26       | 5.0 | 30% | Pass |  |
| Magnesium                                 | S21-De48766 | NCP | mg/L | 14       | 15       | 5.0 | 30% | Pass |  |
| Potassium                                 | S21-De48766 | NCP | mg/L | 130      | 140      | 6.0 | 30% | Pass |  |
| Duplicate                                 |             |     |      |          |          |     |     |      |  |
|   | _           |     |      | Result 1 | Result 2 | RPD |     |      |  |
| Total Suspended Solids Dried at 103–105°C | M21-De46406 | СР  | mg/L | < 5      | < 5      | <1  | 30% | Pass |  |



#### Comments

This report has been revised (V2) following repeat analysis. Test (Metals) results for sample (SW03 (De46408)) have now been replaced by the repeat results.

| Sample Integrity  |     |
|---|-----|
| Custody Seals Intact (if used)  | N/A |
| Attempt to Chill was evident  | Yes |
| Sample correctly preserved  | Yes |
| Appropriate sample containers have been used                            | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime                                     | Yes |
| Some samples have been subcontracted                                    | No  |

#### **Qualifier Codes/Comments**

| Code | Description  |
|------|--|
| N07  | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs |
| Q15  | The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.  |

#### Authorised by:

Michael Cassidy Emily Rosenberg Joseph Edouard Scott Beddoes

Analytical Services Manager Senior Analyst-Metal (VIC) Senior Analyst-Organic (VIC) Senior Analyst-Inorganic (VIC)

Glenn Jackson General Manager

Final Report - this report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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| Minimidial Australia Pluzi Pluzi Australia Pluzi Pluzi Australia Pluzi Pluzi Australi Pluzi Pluzi Australia Pluzi Pluzi Australia Pluzi   | Client:           |              | 1       | _                       |             | -       |          | _          | 5      | ITE C | OC AN  | ID CON  | TACT | DATA          |               |       |          |             |        |          |         |     |                 |      |                          | aboratory:         |
|---|-------------------|--------------|---------|-------------------------|-------------|---------|----------|------------|--------|-------|--------|---------|------|---------------|---------------|-------|----------|-------------|--------|----------|---------|-----|-----------------|------|--------------------------|--------------------|
| Lay 1, 95 Coventry Street         Low 1, 95 Coventry Street         South Member / Prove (0) 3065         South Member / Prove (0) 3067         South / Prove (0) 3067         South / Prove (0)  | Kleinfelder Austr | alia Pty Ltd | Site Na | ime:                    | Glenlyon EM | P       |          |            |        |       |        |         | 1    |               |               | Mat   | t Kiraz  |             |        | _        |         |     |                 |      | Ē                        | urofins mgt        |
| V1C 3305<br>Prone:         Display=0.000, 000, 000, 000, 000, 000, 000, 00  | Level 1, 95 Cove  | ntry Street  | QUOTE   | ENUMBER                 |             |         |          |            |        |       |        |         | -    |               |               | _     |          |             |        |          |         |     | 6 Monterey Road |      |                          |                    |
| Phone:         Johne:         Johne:<   |                   |              | Job No  | u:                      | 20223763.00 | 1A      |          |            |        |       |        | 0       | Con  | tact e-n      | nail:         | mkin  | az@k eir | nfelder.com |        |          |         | 1   |                 |      | Dan                      | denong South       |
| Lebel DC USTOY         Date Interventional quark         Relative Up of Custom         Preconserved by (entry)         Preconserved by (entry)         Semidle Up of Custom         Sem  |                   |              | Require | ed TAT:                 | 24 hrs      | 48      | 3 hrs    | 3          | days   | 50    | days   | (7 days | PMI  | name (i       | if not sample | _     |          |             |        |          |         |     |                 |      |                          |                    |
| CHAM         CHAM <th< td=""><td></td><td>07 6000</td><td>Data Q</td><td>A level:</td><td>LAB minimum</td><td>n unles</td><td>s speci</td><td>fied:</td><td></td><td>_</td><td></td><td>C</td><td>PM</td><td>e-mail:</td><td></td><td>imcd</td><td colspan="4"></td><td colspan="4"></td><td>5000 Fax: (03) 8564 5090</td></th<>  |                   | 07 6000      | Data Q  | A level:                | LAB minimum | n unles | s speci  | fied:      |        | _     |        | C       | PM   | e-mail:       |               | imcd  |          |             |        |          |         |     |                 |      | 5000 Fax: (03) 8564 5090 |                    |
| (400)         (401) <t< td=""><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>_</td><td></td><td>-</td><td colspan="4"></td><td colspan="4"></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  |                   |              |         |                         |             | 1       |          | _          |        | -     |        |         |      |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |
| Image: Note:         Date / Time:         Date / Time:<  |                   |              |         | Reci                    |             |         |          |            |        |       | Relin  |         | _    | _             |               |       | 1        |             |        |          |         |     |                 |      |                          |                    |
| Impute frame         Open / Trme:   | (sign)            | )            |         |                         | (sign)      |         |          |            |        |       |        | (sign)  |      |               |               |       |          | (sign       |        |          |         |     |                 | Le   | vel 1                    | 95 Coventry Street |
|   | Date / Time:      |              |         | Date / Time:            |             |         |          |            |        | Date  | / Time |         |      |               |               | Data  | / Time:  |             |        |          |         |     |                 |      |                          |                    |
| Index:         Note:         Issue present/ no ica<br>websitati / no ica<br>setti materi / no ic |                   |              |         | Temp. ( <sup>6</sup> C) |             |         |          |            |        |       |        |         | -    | _             |               | -     |          |             |        |          |         |     |                 |      |                          |                    |
| Semple ID         Lab ID         Test Instant / no seal         Test Instant / no seal         Test Instant / no seal         Other Analytes         Other Analytes           Semple ID         Lab ID         Test Instant / no seal         Other Analytes         Other Analytes           Semple ID         Lab ID         Test Instant / no seal         Other Analytes         Comments           Semple ID         Lab ID         Test Instant / no seal         Other Analytes           Semple ID         Lab ID         Test Instant / no seal         Comments           Semple ID         Lab ID         Test Instant / no seal         Comments           SW01_1         Lab ID         Iso Instant / no seal         Iso Instant / no seal         Iso Instant / no seal         Test Ins  | Notes:            |              |         | Notes:                  |             |         |          |            |        | Notes | 5.'    |         |      |               |               |       |          |             |        |          |         |     |                 | mel  | bourne                   | ab@kleinfelder.com |
| Semple ID         Lab ID         p  |                   |              |         |                         |             |         | seals in | itact / no | seal   | -     |        |         |      |               |               | 11010 | •        |             |        | intact / | no seal |     |                 |      | Phone                    | : 03 9907 6000     |
| Semple D       Leb ID       verto       of       of </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>I</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>_</td> <td>Orga</td> <td>anic Ar</td> <td>nalytes</td> <td>-</td> <td>-</td> <td>-</td> <td>Metals</td> <td></td> <td>-</td> <td>Oth</td> <td>er Analy</td> <td>yles</td> <td>-</td> <td></td>   |                   |              |         |                         |             |         | I        |            |        | -     | -      | _       | Orga | anic Ar       | nalytes       | -     | -        | -           | Metals |          | -       | Oth | er Analy        | yles | -                        |                    |
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| with and  | Sample iD         | Lab ID       |         |                         | Date        |         |          |            |        |       | 1      |         |      | ວັ            |               |       |          |             |        |          |         |     |                 |      |                          | Comments           |
| SW01_1       I <td></td> <td></td> <td>털</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td>50</td> <td>1</td> <td></td> <td>ous</td> <td></td> <td>Ś</td> <td></td>   |                   |              | 털       | 8                       |             |         |          |            | 50     | 1     |        | ous     |      | Ś             |               |       |          |             |        |          |         |     |                 |      |                          |                    |
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| SW01_1       I <td></td> <td></td> <td>l a</td> <td>apte 1</td> <td></td> <td>1 Å</td> <td>l e</td> <td>g</td> <td>pute</td> <td></td> <td>Ferr</td> <td>s a</td> <td>8 I</td> <td>्र ह</td> <td>·    </td> <td></td>   |                   |              | l a     | apte 1                  |             | 1 Å     | l e      | g          | pute   |       | Ferr   | s a     | 8 I  | ्र ह          | ·             |       |          |             |        |          |         |     |                 |      |                          |                    |
| SW01_1       I       16/12/2021       I       4       x   |                   |              | Sar     | Sar                     |             | Sta     | E E      | Ē          | Ü<br># | PAH   | Aut.   | Cati    | Sa   | Met:<br>Ni, 2 |               |       |          |             |        |          |         |     |                 |      | 1 0                      |                    |
| Image: Second   | SW01_1            |              |         |                         | 16/12/2021  |         |          |            | 4      | x     | x      | x       | x    |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |
| SW03     18/12/2021     4     X   | SW01_2            |              |         |                         | 16/12/2021  |         |          |            | 4      | x     | x      | x       | ×    | x             |               |       |          |             |        |          |         |     |                 |      |                          |                    |
| SW05     16/12/2021     4     X   | SW02              |              |         |                         | 16/12/2021  |         |          |            | 4      | x     | x      | х       | x    | x             |               |       |          |             |        |          |         |     |                 |      |                          |                    |
| SW06     18/12/2021     4     X     X     X     X     X     X       QC01     16/12/2021     4     X     X     X     X     X     X     X       QC02     18/12/2021     4     X     X     X     X     X     X     X       QC02     18/12/2021     4     X     X     X     X     X     X     X   | SW03              |              |         |                         | 16/12/2021  |         |          |            | 4      | x     | x      | x       | x    | x             |               |       |          |             |        |          |         |     |                 |      |                          |                    |
| ACO1     16/12/2021     4     X     X     X     X     X       ACO2     16/12/2021     4     X     X     X     X     X   | SW05              |              | _       |                         | 16/12/2021  |         |          |            | 4      | x     | x      | x       | x    | х             |               |       |          |             |        |          |         |     |                 |      |                          |                    |
| ACCO2         16/12/2021         4         X         X         I  | SW06              |              |         |                         | 16/12/2021  |         |          |            | 4      | x     | x      | x       | x    | x             |               |       |          |             |        |          |         |     |                 |      |                          |                    |
| Rinsate 16/12/2021 x  | QC01              |              |         |                         | 16/12/2021  |         |          |            | 4      | x     | ×      | x       | x    | x             |               |       |          |             |        |          |         |     |                 |      |                          |                    |
| Rinsate       16/12/2021       3       X       Image: Constraint of the   | QC02              |              |         |                         | 16/12/2021  |         |          |            | 4      | x     |        |         |      | x             |               |       |          |             |        |          |         |     |                 |      |                          |                    |
|   | Rinsate           |              |         |                         | 16/12/2021  |         |          |            | 3      | x     |        |         |      |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |
|   |                   |              |         |                         |             |         |          |            |        |       |        |         |      |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |
|   |                   |              |         |                         |             |         |          |            |        |       |        |         |      |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |
|   |                   |              |         |                         |             |         |          |            |        |       |        |         |      |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |
|   |                   |              |         |                         |             |         |          |            |        |       |        |         |      |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |
|   |                   |              |         |                         |             |         |          |            |        |       |        |         |      |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |
|   |                   |              |         |                         |             |         |          |            |        |       |        |         |      |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |
|   |                   |              |         |                         |             |         |          |            |        |       |        |         |      |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |
|   |                   |              |         |                         |             |         |          |            |        |       |        |         |      |               |               |       |          |             |        |          |         |     |                 |      |                          |                    |

L 851670

### **RE: Esky Pickup**

Harry Bacalis <HarryBacalis@eurofins.com> Fri 17/12/2021 11:45 AM To: Matt Kiraz <MKiraz@kleinfelder.com> Cc: Jeremy McDonnell <JMcDonnell@Kleinfelder.com>; #AU\_CAU001\_EnviroSampleVic <EnviroSampleVic@eurofins.com> Thanks Matt

Canh - Incoming Samples, COC attached

Kind regards,

Harry Bacalis Phone: +61 3 8564 5064 Mobile: +61 438 858 924 Email : <u>HarryBacalis@eurofins.com</u>

From: Matt Kiraz <MKiraz@kleinfelder.com> Sent: Friday, 17 December 2021 10:48 AM To: Harry Bacalis <HarryBacalis@eurofins.com> Cc: Jeremy McDonnell <JMcDonnell@Kleinfelder.com> Subject: RE: Esky Pickup

EXTERNAL EMAIL\*

Thanks for that Harry.

Please find attached COCs for the samples arriving today. All soils are on HOLD, we will be able to send you an updated COC with analysis for these next week.

Kind regards,

Matt Kiraz Environmental Scientist

Level 1, 95 Coventry St South Melbourne, VIC 3205 o| + (61) 3 9907 6000 m| + (61) 467 789 650



What and a

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## Environment Testing **PROJECT INFORMATION**

| Date Received:                          | 17/12/21-5.29pu  |
|---|--|
| Company:                                |  |
| Contact person:                         |  |
| Contact Number:                         |  |
| Contact E-mail:                         |  |
| Project Name/site:                      | Glenlyon   |
|   |  |
| Project Number:                         | 2eskies  |
| COC: Attached<br>E-mailed<br>Not receiv | ct<br>Chilled:<br>Chilled:<br>Temp:<br>Correction:<br>Final Temp:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction:<br>Correction: |



| Last modified on: 16 October 2019          | Approved on: 16 October 2019               | Version: QS1039_R2 |
|--|--|--------------------|
| Last modified by: H. Le                    | Approver: M. Makarios                      | Page 1 of 1        |
| Editorial Committee: T. Lakeland, F. Sanja | Next required review date: 16 October 2022 |                    |

## RE: Eurofins Test Results, Invoice - Report 851670 : Site GLENLYON EMP (20223763.001A)

Matt Kiraz <MKiraz@kleinfelder.com> Tue 4/01/2022 11:31 AM To: #AU\_CAU001\_EnviroSampleVic <EnviroSampleVic@eurofins.com> Cc: Jeremy McDonnell <JMcDonnell@Kleinfelder.com>

EXTERNAL EMAIL\*

To whom it may concern,

I made a mistake with the first COC. The QC02 was meant to go to ALS for secondary analysis. Could you please forward the samples with the COC attached to them as soon as possible.

Kind regards,

Matt Kiraz

De46412-6755625-30/GT956-N

Environmental Scientist

Level 1, 95 Coventry St South Melbourne, VIC 3205 o| + (61) 3 9907 6000 m| + (61) 467 789 650





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From: HarryBacalis@eurofins.com <HarryBacalis@eurofins.com> Sent: Wednesday, 29 December 2021 5:23 PM To: Jeremy McDonnell <JMcDonnell@Kleinfelder.com> Cc: Melbournelab <MelbourneLab@kleinfelder.com>; Matt Kiraz <MKiraz@kleinfelder.com> Subject: Eurofins Test Results, Invoice - Report 851670 : Site GLENLYON EMP (20223763.001A)

### **External Email**

Please find attached results and invoice for your project in the subject header.

Kind regards,

Harry Bacalis

### KLEINFELDER AUSTRALIA PTY LTD

Page 1 of 1

COC number:



| Client:<br>Kleinfelder Austra | dia Ptv 1.td | -            |                       |                  | _           |           |                          | _            | SITE,  | COC        | ND CO           | INTA   | CT DATA   |         |             |               |        |                 |   |            |          |                                |                                |
|-------------------------------|--------------|--------------|-----------------------|------------------|-------------|-----------|--------------------------|--------------|--------|------------|-----------------|--------|---|---------|-------------|---------------|--------|-----------------|---|------------|----------|--------------------------------|--------------------------------|
| Level 1, 95 Cover             | the Street   | Sile N       |                       | Gleniyon Ek      | /P          |           | _                        |              |        |            |                 | _      | ampini Nama:  | T       | Matt Kiraz  |               |        | _               | -   |            |          | Laboratory:                    |                                |
| South Melbo                   |              |              | E NUMBER              |                  |             |           |                          |              | _      |            | _               | _      | Contact Number:   |         | 46778965    |               |        |                 | -1  |            |          | Eurofins/mgt                   |                                |
| VIC 3206                      |              | Jab Ne       |                       | 20223763.0       |             |           |                          |              |        |            | -               | C      | ontact - mail:  | ,       | nkinerstike | nfelder.com   |        |                 | -   |            |          | Monterey Road<br>ndenong South |                                |
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| Relinquished by (print):      |              |              | Rec                   | elved by (print) | 4           |           |                          | _            | -      | Pali       | nquishe         | A.     |   |         |             |               |        |                 | 1   | - Honor (  | SI       | and Results to:                | 5080                           |
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| ale / Time;                   |              |              |                       |                  |             | -         |                          |              |        |            | (sig            | 71)    |   |         |             | (sign)        | -      |                 | 1   |            |          |                                | 10                             |
|                               |              |              | Date / Time:          |                  | -           | -         |                          | _            | Dat    | e / Tim    | 9:              |        |   | E       | ate / Time: |               |        |                 | 1   |            |          | 95 Coventry Street             |                                |
| oles:                         |              |              | Temp. ('C)            |                  | -           | 1         |                          |              | -      |            |                 |        |   |         | amp. ("C)   |               | 1      |                 | 1   |            | South M  | leibourne, VIC 3205            | J                              |
|                               |              |              | Notes:                |                  |             | seals h   | esent / no<br>ntact / no | ica<br>seal  | Note   | 9S:        |                 |        |   |         | lofos:      |               |        | sent / na ice   | 1   | 00         | albourne | alab@kleinfelder.com           |                                |
|                               |              |              |                       |                  | -           | 1         | T                        |              | +      |            |                 | C+     | ganio Analytes  | _       |             |               |        | itact / no seal |   |            | Phon     | e: 03 9907 6000                | G                              |
|                               |              |              |                       |                  |             |           |                          |              | -      | -          | 1               | -      |   |         |             |               | letals |                 | Other                                     | r Analytes | _        |                                |                                |
| Semple (D                     | Lab (D       | Sample Point | Sample Type           | Date             | Start Dopth | End Depth | Units                    | # Containers | AH     | utriente   | ti on t/Arriens | DSATSN | vetale (As, Cd, Cr, Cu, Ma,   |         | (M)         |               |        |                 |   |            |          | Commant                        | 2                              |
| W01_1                         |              |              |                       | 16/12/2021       |             | -         | 3                        | 4            | X      | 1          | X               | X      | and Call for and  |         |             |               | -      | _               |   | 1          | -        |                                |                                |
| N01_2                         |              | -            |                       | 16/12/2021       |             |           |                          | -            | -      | -          | -               | 1      |   |         |             |               | _      |                 |   |            |          |                                |                                |
| N02                           |              |              |                       | 16/12/2021       |             | -         |                          | 4            | x<br>x | -          | X               | -      | <b>x</b> .  |         |             |               |        | -               |   |            |          |                                |                                |
| N03                           |              |              |                       | 18/12/2021       | -           |           | 1                        | 4            | x      | X          | X               | X      | 1 11 1  | -       | -           |               |        |                 |   |            |          |                                |                                |
| V05                           |              |              |                       | 16/12/2021       |             |           |                          | 4            | x      | ×          | X               | X      |   | -       |             |               |        |                 |   |            |          |                                |                                |
| V06                           |              |              |                       | 16/12/2021       |             | -         | -                        | 4            | x      |            | x<br>x          | X      |   | -       |             |               | _      | -               |   |            |          |                                |                                |
| 201                           |              |              |                       | 16/12/2021       | -           |           |                          | 4            | x      | -          | x               | +      | x   |         |             |               | _      |                 |   | -          |          |                                |                                |
| 02                            |              |              |                       | 16/12/2021       |             |           | - +-                     | 4            | x      | ~          | ^               | ŕ      | x   |         | + +         |               |        |                 |   |            |          |                                |                                |
| isate                         |              |              |                       | 16/12/2021       |             |           | 1                        | 4            | x      |            |                 | -      |   |         | -           |               |        | _               |   |            |          |                                |                                |
|                               |              |              |                       |                  |             |           | -                        | 3            |        |            | -               | -      |   | -       |             |               |        |                 |   |            |          |                                |                                |
|                               |              |              |                       |                  |             |           |                          |              |        |            |                 | 1      |   |         | +-+         |               | _      | -               |   | _          |          |                                |                                |
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|                               |              | 1            |                       |                  | -           |           |                          | -            |        |            | -               | -      |   | -       |             |               |        | _               |   |            |          |                                |                                |
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| 1                             |              |              |                       |                  |             |           |                          |              |        |            |                 |        |   |         |             |               |        |                 |   |            |          |                                |                                |
|                               |              |              |                       |                  |             |           |                          |              |        |            |                 |        |   |         |             |               |        |                 |   |            |          |                                | The spectra of section bundles |
|                               |              |              |                       |                  | -+          |           |                          | -            |        | -          | -               | -      |   | -       | 1           |               |        |                 |   |            |          |                                |                                |
|                               |              |              |                       |                  |             |           |                          |              |        |            |                 |        |   |         |             |               |        |                 |   |            |          |                                |                                |
|                               |              |              |                       |                  |             |           |                          |              |        | _          |                 | _      | the second se | _       |             |               |        |                 |   |            |          |                                |                                |

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## APPENDIX C1: NEPM HIL C CALCULATION SPREADSHEET (365 DAYS/YEAR)



## Derivation of Investigation Levels HIL C - Recreational

| Summary of Exposure Parame        | eters                        | Abbreviation     | units                   | Parameter | References/Notes  |
|-----------------------------------|------------------------------|------------------|-------------------------|-----------|---|
| Soil and Dust Ingestion Rate      | - Young children (0-5 years) | IR <sub>SC</sub> | mg/day                  | 50        | 50% of HIL A assumption, Schedule B7, Table 5   |
| Soli and Dust Ingestion Rate      | - Adults                     | IR <sub>SA</sub> | mg/day                  | 25        | 50% of HIL A assumption, Schedule B7, Table 5   |
| Surface Area of Skin              | - Young children (0-5 years) | SA <sub>C</sub>  | cm²/day                 | 2700      | As per enHealth (2012)  |
| Surface Area of Skin              | - Adults                     | SAA              | cm²/day                 | 6300      | As per enHealth (2012) for male and female combined   |
| Soil-to-Skin Adherence Factor     |                              | AF               | mg/cm <sup>2</sup> /day | 0.5       | Schedule B7, Table 5  |
| Time Spent Outdoors               |                              | ETo              | hours                   | 2         | Schedule B7, Table 5  |
| Time Spent Indoors                |                              | ETi              | hours                   | 0         | Schedule B7, Table 5  |
| Lung Retention Factor             |                              | RF               | -                       | 0.375     | Schedule B7, Table 5  |
| Particulate Emission Factor       |                              | PEFo             | (m <sup>3</sup> /kg)    | 2.6E+07   | As per Equation 21 based assumptions presented in Schedule B7   |
| Outdoor Air-to-Soil Gas Attenuat  | ion Factor                   | α                | -                       | 0.05      | Value adopted as discussed in Section 5.5 of Schedule B7  |
| Pady weight                       | - Young children (0-5 years) | BW <sub>C</sub>  | kg                      | 15        | Schedule B7, Table 5  |
| Body weight                       | - Adults                     | BW <sub>A</sub>  | kg                      | 70        | Schedule B7, Table 5  |
| Exposure Frequency                |                              | EF               | days/year               | 365       | Schedule B7, Table 5  |
| Exposure Duration                 | - Young children (0-5 years) | ED <sub>C</sub>  | years                   | 6         | Schedule B7, Table 5  |
| - Adults                          |                              | ED <sub>A</sub>  | years                   | 29        | Schedule B7, Table 5  |
| Averaging Time (non-carcinogenic) |                              | AT <sub>T</sub>  | days                    | ED*365    | Calculated based on ED for each relevant age group, multiplied by 24 hours for the assessment of inhalation exposures |
| Averaging Time (carcinogenic)     |                              | AT <sub>NT</sub> | days                    | 25550     | Based on lifetime of 70 years, multiplied by 24 hours for the assessment of inhalation exposures                      |

| Threshold Calculations - Young Ch | ild Aged 2-3 years       | 5          |                     |                     |              |                               |  |             |    |                    |            |                    |            |                      |                    |                        |          |
|-----------------------------------|--------------------------|------------|---------------------|---------------------|--------------|-------------------------------|--|-------------|----|--------------------|------------|--------------------|------------|----------------------|--------------------|------------------------|----------|
|                                   | Toxicity                 | GI         | Toxicity            | Oral                | Dermal       | Background                    | Toxicity                                 | Background  |    | Pathwa             | ay Specifi | c HILs             | Soil       | Derived Interim      | Derived Soil HIL   | Derived Soil HIL (to 1 | Notes    |
| Compound                          | <b>Reference Value</b>   | Absorption | Reference           | Bioavailability     | Absorption   | Intake                        | Reference                                | Intake      |    |                    | (mg/kg)    |                    | Vapour     | Soil Gas HIL -       | (not rounded)      | or 2 s.f.) (mg/kg)     |          |
|                                   | Oral (TRV <sub>o</sub> ) | (GAF)      | Value Dermal        | BA <sub>0</sub> (%) | Factor (DAF) | Oral/Dermal                   | Value                                    | Inhalation  |    | Soil               | Dermal     | Dust               | HIL        | Threshold (to 1 or 2 | (mg/kg) (eqn 2 for |                        |          |
|                                   | (mg/kg/day)              | (unitless) | (TRV <sub>D</sub> ) |                     | (unitless)   | (BI <sub>0</sub> ) (% of TDI) | Inhalation                               | (BIi) (% of | Ir | ngestion           | (eqn 6)    | (eqn 9)            | $(mg/m^3)$ | <b>s.f.)</b> (mg/m3) | relevant pathways) |                        |          |
|                                   |                          |            | (mg/kg/day)         |                     |              |                               | (TRV <sub>I</sub> ) (mg/m <sup>3</sup> ) | TC)         |    | (eqn 3)            |            |                    | (eqn 12)   |                      |                    |                        |          |
|                                   |                          |            |                     |                     |              |                               |  |             |    |                    |            |                    |            |                      |                    |                        |          |
| arsenic                           | 0.002                    | 1          | 0.002               | 100%                | 0.005        | 50%                           | 0.001                                    | 0%          |    | 3.0E+02            |            | 8.2E+05            |            |                      | 264                | 300                    |          |
| beryllium                         | 0.002                    | 0.007      | 0.000014            | 100%                | 0.001        | 30%                           | 0.000020                                 | 0%          |    | 1.2E+02            |            | 1.6E+04            |            |                      | 86                 | 90                     |          |
| boron                             | 0.2                      |            |                     | 100%                |              | 65%                           | 0.7                                      | 65%         |    | 2.1E+04            | NA         | 2.0E+08            |            |                      | 20998              | 20000                  |          |
| cadmium                           | 0.0008                   |            |                     | 100%                |              | 60%                           | 0.000005                                 | 20%         |    | 9.6E+01            | NA         | 3.3E+03            |            |                      | 93                 | 90                     |          |
| chromium (VI)                     | 0.001                    |            |                     | 100%                |              | 10%                           | 0.0001                                   | 0%          |    | 2.7E+02            | NA         | 8.2E+04            |            |                      | 269                | 300                    | L        |
| cobalt                            | 0.001                    | 1          | 0.0014              | 100%                | 0.001        | 20%                           | 0.0001                                   | 0%          |    | 3.4E+02            |            | 8.2E+04            |            |                      | 326                | 300                    | L        |
| copper                            | 0.14                     |            |                     | 100%                |              | 60%                           | 0.49                                     | 60%         |    | L.7E+04            | NA         | 1.6E+08            |            |                      | 16798              | 17000                  | L        |
| manganese                         | 0.16                     |            |                     | 100%                |              | 50%                           | 0.00015                                  | 20%         |    | 2.4E+04            | NA         | 9.8E+04            |            |                      | 19296              | 19000                  |          |
| methyl mercury                    | 0.00023                  | 1          | 0.00023             | 100%                | 0.001        | 80%                           | 0.000805                                 | 80%         |    | L.4E+01            | 5.1E+02    | 1.3E+05            |            |                      | 13                 | 13                     | L        |
| mercury (inorganic)               | 0.0006                   | 0.07       | 0.000042            | 100%                | 0.001        | 40%                           | 0.0002                                   | 10%         |    | L.1E+02            |            | 1.5E+05            |            |                      | 78                 | 80                     |          |
| nickel                            | 0.012                    | 1          | 0.012               | 100%                | 0.005        | 60%                           | 0.00002                                  | 20%         |    | L.4E+03            |            | 1.3E+04            |            |                      | 1157               | 1200                   |          |
| selenium                          | 0.006                    |            |                     | 100%                |              | 60%                           | 0.021                                    | 60%         |    | 7.2E+02            | NA         | 6.9E+06            |            |                      | 720                | 700                    | <b></b>  |
| zinc                              | 0.5                      | 1          | 0.5                 | 100%                | 0.001        | 80%                           | 1.75                                     | 80%         |    | 3.0E+04            |            | 2.9E+08            |            |                      | 29208              | 30000                  |          |
| cyanide (free) (no VI)            | 0.006                    | 1          | 0.006               | 100%                | 0.1          | 50%                           | 0.0008                                   | 0%          | 9  | 9.0E+02            |            | 6.6E+05            |            |                      | 243                | 240                    |          |
| TCE                               |                          |            |                     |                     |              |                               | 0.002                                    | 10%         |    | NA                 | NA         | NA                 | 4.3E-01    | 0.4                  |                    |                        |          |
| 1,1,1-TCA                         |                          |            |                     |                     |              |                               | 5  | 0%          |    | NA                 | NA         | NA                 | 1.2E+03    | 1200                 |                    |                        | L        |
| PCE                               |                          |            |                     |                     |              |                               | 0.2                                      | 10%         |    | NA                 | NA         | NA                 | 4.3E+01    | 40                   |                    |                        |          |
| cis-1,2-dichloroethene            |                          |            |                     | 1000/               |              | 2007                          | 0.007                                    | 0%          |    | NA                 | NA         | NA                 | 1.7E+00    | 2                    | 20051              | 10000                  | L        |
| phenol                            | 0.7                      | 1          | 0.7                 | 100%                | 0.1          | 30%                           | 0.035                                    | 30%         |    | L.5E+05            |            | 2.0E+07            |            |                      | 39651              | 40000                  | L        |
| pentachlorophenol                 | 0.003                    | 1          | 0.003               | 100%                | 0.24         | 0%                            | 0.0105                                   | 0%          |    | 0.0E+02            |            | 8.6E+06            |            |                      | 120                | 120                    | <b>I</b> |
| cresols                           | 0.1                      | 1          | 0.1                 | 100%                | 0.1          | 50%                           | 0.35                                     | 50%         |    | L.5E+04            |            | 1.4E+08            |            |                      | 4054               | 4000                   | L        |
| DDX                               | 0.002                    | 1          | 0.002               | 100%                | 0.018        | 0%                            | 0.007                                    | 0%          |    | 5.0E+02            |            | 5.7E+06            |            |                      | 404                | 400                    | <b></b>  |
| aldrin and dieldrin               | 0.0001                   | 1          | 0.0001              | 100%                | 0.1          | 10%                           | 0.00035                                  | 10%         |    | 2.7E+01            |            | 2.6E+05            |            |                      | 7.3                | 10                     | <b></b>  |
| chlordane                         | 0.0005                   | 1          | 0.0005              | 100%                | 0.04         | 0%<br>30%                     | 0.00175                                  | 0%<br>30%   |    | L.5E+02            |            | 1.4E+06<br>1.2E+07 |            |                      | 72                 | 70<br>340              | <b></b>  |
| endosulfan<br>endrin              | 0.006                    | 1          | 0.006               | 100%<br>100%        | 0.1          | 30%                           | 0.021                                    | 0%          |    | L.3E+03<br>5.0E+01 |            | 5.7E+05            |            |                      | 341<br>16          | <u>340</u><br>20       | <b></b>  |
|                                   | 0.0002                   | 1          | 0.0002              |                     |              |                               | 0.0007                                   |             |    | 3.0E+01<br>3.0E+01 |            | 2.9E+05            |            |                      | 8.1                | 10                     | <b></b>  |
| heptachlor<br>HCB                 | 0.0001                   | 1          | 0.0001              | 100%<br>100%        | 0.1          | 0%<br>0%                      | 0.00035                                  | 0%          |    | 4.8E+01            |            | 4.6E+05            |            |                      | 13                 | 10                     | <b></b>  |
| methoxychlor                      | 0.005                    | 1          | 0.00016             | 100%                | 0.1          | 0%                            | 0.0175                                   | 0%          |    | 1.5E+01            |            | 1.4E+07            |            |                      | 405                | 400                    | <b></b>  |
| mirex                             | 0.0002                   | 1          | 0.0002              | 100%                | 0.1          | 0%                            | 0.0007                                   | 0%          |    | 5.0E+03            |            | 5.7E+05            |            |                      | 16                 | 20                     | <b>I</b> |
| toxaphene                         | 0.00035                  | 1          | 0.0002              | 100%                | 0.1          | 10%                           | 0.001225                                 | 10%         |    |                    |            | 9.0E+05            |            |                      | 26                 | 30                     | L        |
| 2,4,5-T                           | 0.00035                  | 1          | 0.00                | 100%                | 0.1          | 0%                            | 0.035                                    | 0%          |    | 3.0E+01            |            | 2.9E+03            |            |                      | 811                | 800                    | <b>I</b> |
| 2,4-D                             | 0.01                     | 1          | 0.01                | 100%                | 0.05         | 0%                            | 0.035                                    | 0%          |    |                    |            | 2.9E+07            |            |                      | 1277               | 1300                   | <u> </u> |
| MCPA                              | 0.01                     | 1          | 0.01                | 100%                | 0.03         | 0%                            | 0.035                                    | 0%          |    | 3.0E+03            |            | 2.9E+07            |            |                      | 811                | 800                    | <u> </u> |
| МСРА                              | 0.01                     | 1          | 0.01                | 100%                | 0.1          | 0%                            | 0.035                                    | 0%          |    | 3.0E+03            |            | 2.9E+07            |            |                      | 811                | 800                    |          |
| mecoprop                          | 0.01                     | 1          | 0.01                | 100%                | 0.1          | 0%                            | 0.035                                    | 0%          | -  | 3.0E+03            |            | 2.9E+07            |            |                      | 811                | 800                    | <b></b>  |
| picloram                          | 0.01                     | 1          | 0.01                | 100%                | 0.1          | 0%                            | 0.245                                    | 0%          |    |                    |            | 2.9L+07<br>2.0E+08 |            |                      | 5676               | 5700                   |          |
| atrazine                          | 0.005                    | 1          | 0.005               | 100%                | 0.1          | 0%                            | 0.0175                                   | 0%          |    | L.5E+03            |            | 1.4E+07            |            |                      | 405                | 400                    | <u> </u> |
| chlorpyrifos                      | 0.003                    | 1          | 0.003               | 100%                | 0.03         | 50%                           | 0.0175                                   | 50%         |    | 1.5E+03            |            | 4.3E+06            |            |                      | 249                | 250                    |          |
| bifenthrin                        | 0.003                    | 1          | 0.003               | 100%                | 0.03         | 10%                           | 0.035                                    | 10%         |    | 2.7E+02            |            | 2.6E+07            |            |                      | 730                | 730                    | <u> </u> |
| PCBs                              | 0.00002                  | 1          | 0.00002             | 100%                | 0.14         | 0%                            | 0.00007                                  | 0%          |    |                    |            | 5.7E+04            |            |                      | 1.3                | 1                      |          |
| PBDE Flame Retardants (Br1-Br9)   | 0.0001                   | 1          | 0.0001              | 100%                | 0.14         | 80%                           | 0.00035                                  | 80%         |    |                    |            | 5.7E+04            |            |                      | 1.5                | 2                      | <b></b>  |

| NA | Pathway n | ot of significance | e for chemica | assessed ( | refer to A |
|----|-----------|--------------------|---------------|------------|------------|
|    |           |                    |               |            |            |

| Non-Threshold Effects - Lifetime Ex | posures [young o          | child and adul | tj                        |                     |              |  |        |             |             |          |            |                      |                    |                        |       |
|-------------------------------------|---------------------------|----------------|---------------------------|---------------------|--------------|--|--------|-------------|-------------|----------|------------|----------------------|--------------------|------------------------|-------|
|                                     | Toxicity                  | GI             | Non-Threshold             | Oral                | Dermal       | Toxicity                                 | Target | Pathwa      | ay Specific | HILS     | Soil       | Derived Interim      | Derived Soil HIL   | Derived Soil HIL (to 1 | Notes |
| Compound F                          | Reference Value           | Absorption     | Slope Factor              | Bioavailability     | Absorption   | Reference                                | Risk   |             | (mg/kg)     |          | Vapour     | Soil Gas IL -        | (not rounded)      | or 2 s.f.) (mg/kg)     |       |
|                                     | Oral (TRV <sub>o</sub> )  | (GAF)          | Dermal (SFd)              | BA <sub>0</sub> (%) | Factor (DAF) | Value                                    | (TR)   | Soil        | Dermal      | Dust     | HIL        | Threshold (to 1 or 2 | (mg/kg) (eqn 2 for |                        |       |
|                                     | (mg/kg/day) <sup>-1</sup> | (unitless)     | (mg/kg/day) <sup>-1</sup> |                     | (unitless)   | Inhalation                               |        | Ingestion   |             | (eqns 10 | $(mg/m^3)$ | <b>s.f.)</b> (mg/m3) | relevant pathways) |                        |       |
|                                     |                           |                |                           |                     |              | (TRV <sub>I</sub> ) (mg/m <sup>3</sup> ) |        | (eqns 4 and | and 8)      | and 11)  | (eqns 13   |                      |                    |                        |       |
|                                     |                           |                |                           |                     |              | 1  |        | 5)          |             |          | and 14)    |                      |                    |                        |       |
| TCE                                 |                           |                |                           |                     |              | 0.004                                    | 1E-05  | NA          | NA          | NA       | 1.2E+00    | 1                    |                    |                        |       |
| vinyl chloride                      |                           |                |                           |                     |              | 0.0088                                   | 1E-05  | NA          | NA          | NA       | 5.5E-01    | 0.5                  |                    |                        |       |
| benzo(a)pyrene                      | 0.5                       | 1              | 0.5                       | 14%                 | 0.013        | 1.43E-01                                 | 1E-05  | 3.3E+02     | 5.8E+01     | 1.1E+05  |            |                      | 49.6               | 50                     | 1     |
| benzo(a)pyrene (Early-Life)         | 0.5                       | 1              | 0.5                       | 14%                 | 0.013        | 1.43E-01                                 | 1E-05  | 8.1E+01     | 2.1E+01     | 4.3E+04  |            |                      | 16.8               | 20                     | 1     |

NA Pathway not of significance for chemical assessed (refer to Appendix A for chemical-specific details)
 1 Refer to Appendix A for discussion on different calculations conducted for benzo(a)pyrene and basis for HIL adopted

Appendix A for chemical-specific details)

## APPENDIX C2: NEPM HIL C CALCULATION SPREADSHEET (104 DAYS/YEAR)

J



### Derivation of Investigation Levels HIL C - Recreational

| Summary of Exposure Paramet         | ers  | Abbreviation     | units                   | Parameter | References/Notes  |
|-------------------------------------|--|------------------|-------------------------|-----------|---|
| Soil and Dust Ingestion Rate        | <ul> <li>Young children (0-5 years)</li> </ul> | IR <sub>SC</sub> | mg/day                  | 50        | 50% of HIL A assumption, Schedule B7, Table 5   |
| Son and Dust Ingestion Rate         | - Adults                                       | IR <sub>SA</sub> | mg/day                  | 25        | 50% of HIL A assumption, Schedule B7, Table 5   |
| Surface Area of Skin                | <ul> <li>Young children (0-5 years)</li> </ul> | SA <sub>C</sub>  | cm²/day                 | 2700      | As per enHealth (2012)  |
| - Adults                            |  | SAA              | cm²/day                 | 6300      | As per enHealth (2012) for male and female combined   |
| Soil-to-Skin Adherence Factor       |  | AF               | mg/cm <sup>2</sup> /day | 0.5       | Schedule B7, Table 5  |
| me Spent Outdoors                   |  | ETo              | hours                   | 2         | Schedule B7, Table 5  |
| ime Spent Indoors                   |  | ETi              | hours                   | 0         | Schedule B7, Table 5  |
| Lung Retention Factor               |  | RF               | -                       | 0.375     | Schedule B7, Table 5  |
| Particulate Emission Factor         |  | PEFo             | (m <sup>3</sup> /kg)    | 2.6E+07   | As per Equation 21 based assumptions presented in Schedule B7   |
| Outdoor Air-to-Soil Gas Attenuation | n Factor                                       | α                | -                       | 0.05      | Value adopted as discussed in Section 5.5 of Schedule B7  |
| Body weight                         | <ul> <li>Young children (0-5 years)</li> </ul> | BW <sub>C</sub>  | kg                      | 15        | Schedule B7, Table 5  |
| Body weight                         | - Adults                                       | BW <sub>A</sub>  | kg                      | 70        | Schedule B7, Table 5  |
| Exposure Frequency                  |  | EF               | days/year               | 104       | Schedule B7, Table 5  |
| Exposure Duration                   | <ul> <li>Young children (0-5 years)</li> </ul> | ED <sub>C</sub>  | years                   | 6         | Schedule B7, Table 5  |
| Exposure Duration                   | - Adults                                       | EDA              | years                   | 29        | Schedule B7, Table 5  |
| Averaging Time (non-carcinogenic)   |  | ATT              | days                    | ED*365    | Calculated based on ED for each relevant age group, multiplied by 24 hours for the assessment of inhalation exposures |
| Averaging Time (carcinogenic)       |  | AT <sub>NT</sub> | days                    | 25550     | Based on lifetime of 70 years, multiplied by 24 hours for the assessment of inhalation exposures                      |

| Threshold Calculations - Young ( | Child Aged 2-3 yea   | rs                                      |   |  |              |  |   |  |      |                                  |         |           |   |                                       |  |  |       |
|----------------------------------|--|---|---|--|--------------|--|---|--|------|----------------------------------|---------|-----------|---|---------------------------------------|--|--|-------|
| Compound                         | Toxicity<br>Reference Value<br>Oral (TRV <sub>o</sub> )<br>(mg/kg/day) | GI<br>Absorption<br>(GAF)<br>(unitless) | Toxicity<br>Reference<br>Value Dermal<br>(TRV <sub>D</sub> )<br>(mg/kg/day) | Oral<br>Bioavailability<br>BA <sub>o</sub> (%) | Factor (DAF) | Background<br>Intake<br>Oral/Dermal<br>(BI <sub>0</sub> ) (% of TDI) | Toxicity<br>Reference<br>Value<br>Inhalation<br>(TRV <sub>I</sub> )<br>(mg/m <sup>3</sup> ) | Background<br>Intake<br>Inhalation<br>(BIi) (% of<br>TC) | F    | Pathway Specific HILs<br>(mg/kg) |         |           | Soil<br>Vapour                          | Derived Interim<br>Soil Gas HIL -     | Derived Soil HIL<br>(not rounded)        | Derived Soil HIL (to 1<br>or 2 s.f.) (mg/kg) | Notes |
|                                  |  |   |   |  |              |  |   |  | Inge | <b>Soil</b><br>estion<br>qn 3)   | Dermal  | Dust      | HIL<br>(mg/m <sup>3</sup> )<br>(eqn 12) | Threshold (to 1 or<br>2 s.f.) (mg/m3) | (mg/kg) (eqn 2 for<br>relevant pathways) |  |       |
| arsenic                          | 0.002  | 1                                       | 0.002   | 100%   | 0.005        | 50%  | 0.001   | 0%   | 1.1  | E+03                             | 7.8E+03 | 3 2.9E+06 | 1                                       |                                       | 927                                      | 900  |       |
| bervllium                        | 0.002  | 0.007                                   | 0.000014  | 100%   | 0.001        | 30%  | 0.000020  | 0%   |      |                                  |         | 2 5.8E+04 |   |                                       | 302                                      | 300  |       |
| boron                            | 0.2  | 0.007                                   | 01000021  | 100%   | 0.001        | 65%  | 0.7   | 65%  |      | E+04                             | NA      | 7.1E+08   |   |                                       | 73694                                    | 70000  |       |
| cadmium                          | 0.0008   |   |   | 100%   |              | 60%  | 0.000005  | 20%  |      | E+02                             | NA      | 1.2E+04   |   |                                       | 327                                      | 300  |       |
| chromium (VI)                    | 0.001  |   |   | 100%   |              | 10%  | 0.0001  | 0%   |      | E+02                             | NA      | 2.9E+05   |   |                                       | 944                                      | 900  |       |
| cobalt                           | 0.001  | 1                                       | 0.0014  | 100%   | 0.001        | 20%  | 0.0001  | 0%   |      |                                  | 4.4E+04 | 1 2.9E+05 |   |                                       | 1144                                     | 1000   |       |
| copper                           | 0.14   |   |   | 100%   |              | 60%  | 0.49  | 60%  | 5.9  | E+04                             | NA      | 5.6E+08   |   |                                       | 58955                                    | 59000  |       |
| manganese                        | 0.16   |   |   | 100%   |              | 50%  | 0.00015   | 20%  | 8.4  | E+04                             | NA      | 3.5E+05   |   |                                       | 67723                                    | 68000  |       |
| methyl mercury                   | 0.00023  | 1                                       | 0.00023   | 100%   | 0.001        | 80%  | 0.000805  | 80%  | 4.8  | E+01                             | 1.8E+03 | 3 4.6E+05 |   |                                       | 47                                       | 47   | 1     |
| mercury (inorganic)              | 0.0006   | 0.07                                    | 0.000042  | 100%   | 0.001        | 40%  | 0.0002  | 10%  | 3.8  | E+02                             |         | 2 5.2E+05 |   |                                       | 273                                      | 300  |       |
| nickel                           | 0.012  | 1                                       | 0.012   | 100%   | 0.005        | 60%  | 0.00002   | 20%  | 5.1  | E+03                             | 3.7E+04 | 4.6E+04   |   |                                       | 4060                                     | 4100   |       |
| selenium                         | 0.006  |   |   | 100%   |              | 60%  | 0.021   | 60%  | 2.5  | E+03                             | NA      | 2.4E+07   |   |                                       | 2527                                     | 3000   |       |
| zinc                             | 0.5  | 1                                       | 0.5   | 100%   | 0.001        | 80%  | 1.75  | 80%  | 1.1  | E+05                             | 3.9E+06 | 5 1.0E+09 |   |                                       | 102510                                   | 100000                                       |       |
| cyanide (free) (no VI)           | 0.006  | 1                                       | 0.006   | 100%   | 0.1          | 50%  | 0.0008  | 0%   | 3.2  | E+03                             | 1.2E+03 | 3 2.3E+06 |   |                                       | 853                                      | 850  |       |
| TCE                              |  |   |   |  |              |  | 0.002   | 10%  |      | NA                               | NA      | NA        | 1.5E+00                                 | 1.5                                   |  |  |       |
| 1,1,1-TCA                        |  |   |   |  |              |  | 5   | 0%   |      | NA                               | NA      | NA        | 4.2E+03                                 | 4212                                  |  |  |       |
| PCE                              |  |   |   |  |              |  | 0.2   | 10%  |      | NA                               | NA      | NA        | 1.5E+02                                 | 200                                   |  |  |       |
| cis-1,2-dichloroethene           |  |   |   |  |              |  | 0.007   | 0%   |      | NA                               | NA      | NA        | 5.9E+00                                 | 6                                     |  |  |       |
| phenol                           | 0.7  | 1                                       | 0.7   | 100%   | 0.1          | 30%  | 0.035   | 30%  | 5.2  | E+05                             |         | 5 7.1E+07 |   |                                       | 139161                                   | 140000                                       |       |
| pentachlorophenol                | 0.003  | 1                                       | 0.003   | 100%   | 0.24         | 0%   | 0.0105  | 0%   | 3.2  | E+03                             | 4.9E+02 | 2 3.0E+07 |   |                                       | 422                                      | 420  |       |
| cresols                          | 0.1  | 1                                       | 0.1   | 100%   | 0.1          | 50%  | 0.35  | 50%  | 5.3  | E+04                             | 1.9E+04 | 1 5.0E+08 |   |                                       | 14228                                    | 10000  |       |
| DDX                              | 0.002  | 1                                       | 0.002   | 100%   | 0.018        | 0%   | 0.007   | 0%   | 2.1  |                                  |         | 3 2.0E+07 |   |                                       | 1417                                     | 1000   |       |
| aldrin and dieldrin              | 0.0001   | 1                                       | 0.0001  | 100%   | 0.1          | 10%  | 0.00035   | 10%  |      |                                  |         | l 9.1E+05 |   |                                       | 25.6                                     | 10   |       |
| chlordane                        | 0.0005   | 1                                       | 0.0005  | 100%   | 0.04         | 0%   | 0.00175   | 0%   |      |                                  |         | 2 5.0E+06 |   |                                       | 253                                      | 300  |       |
| endosulfan                       | 0.006  | 1                                       | 0.006   | 100%   | 0.1          | 30%  | 0.021   | 30%  |      |                                  |         | 3 4.2E+07 |   |                                       | 1195                                     | 1200   |       |
| endrin                           | 0.0002   | 1                                       | 0.0002  | 100%   | 0.1          | 0%   | 0.0007  | 0%   |      | -                                |         | 1 2.0E+06 |   |                                       | 57                                       | 60   |       |
| heptachlor                       | 0.0001   | 1                                       | 0.0001  | 100%   | 0.1          | 0%   | 0.00035   | 0%   |      |                                  |         | 1.0E+06   |   |                                       | 28.5                                     | 10   |       |
| HCB                              | 0.00016  | 1                                       | 0.00016   | 100%   | 0.1          | 0%   | 0.00056   | 0%   |      |                                  |         | 1.6E+06   |   |                                       | 46                                       | 50   |       |
| methoxychlor                     | 0.005  | 1                                       | 0.005   | 100%   | 0.1          | 0%   | 0.0175  | 0%   |      |                                  |         | 3 5.0E+07 |   |                                       | 1423                                     | 1000   |       |
| mirex                            | 0.0002   | 1                                       | 0.0002  | 100%   | 0.1          | 0%   | 0.0007  | 0%   |      |                                  |         | 1 2.0E+06 |   |                                       | 57                                       | 60   |       |
| toxaphene                        | 0.00035  | 1                                       | 0.00035   | 100%   | 0.1          | 10%  | 0.001225  | 10%  |      |                                  |         | 2 3.2E+06 |   |                                       | 90                                       | 90   |       |
| 2,4,5-T                          | 0.01   | 1                                       | 0.01  | 100%   | 0.1          | 0%   | 0.035   | 0%   |      |                                  |         | 3 1.0E+08 |   |                                       | 2846                                     | 3000   |       |
| 2,4-D                            | 0.01   | 1                                       | 0.01  | 100%   | 0.05         | 0%   | 0.035   | 0%   |      |                                  |         | 3 1.0E+08 |   |                                       | 4480                                     | 4500   |       |
| МСРА                             | 0.01   | 1                                       | 0.01  | 100%   | 0.1          | 0%   | 0.035   | 0%   |      |                                  |         | 3 1.0E+08 |   |                                       | 2846                                     | 3000   |       |
| МСРВ                             | 0.01   | 1                                       | 0.01  | 100%   | 0.1          | 0%   | 0.035   | 0%   |      | -                                |         | 3 1.0E+08 |   |                                       | 2846                                     | 3000   |       |
| mecoprop                         | 0.01   | 1                                       | 0.01  | 100%   | 0.1          | 0%   | 0.035   | 0%   |      |                                  |         | 3 1.0E+08 |   |                                       | 2846                                     | 3000   |       |
| picloram                         | 0.07   | 1                                       | 0.07  | 100%   | 0.1          | 0%   | 0.245   | 0%   |      |                                  |         | 4 7.1E+08 |   |                                       | 19919                                    | 20000  |       |
| atrazine                         | 0.005  | 1                                       | 0.005   | 100%   | 0.1          | 0%   | 0.0175  | 0%   |      |                                  |         | 3 5.0E+07 |   |                                       | 1423                                     | 1000   |       |
| chlorpyrifos                     | 0.003  | 1                                       | 0.003   | 100%   | 0.03         | 50%  | 0.0105  | 50%  |      |                                  |         | 3 1.5E+07 |   |                                       | 873                                      | 870  |       |
| bifenthrin                       | 0.01   | 1                                       | 0.01  | 100%   | 0.1          | 10%  | 0.035   | 10%  |      |                                  |         | 3 9.1E+07 |   |                                       | 2561                                     | 2600   |       |
| PCBs                             | 0.00002  | 1                                       | 0.00002   | 100%   | 0.14         | 0%   | 0.00007   | 0%   |      |                                  |         | ) 2.0E+05 |   |                                       | 4.4                                      | 4  |       |
| PBDE Flame Retardants (Br1-Br9)  | 0.0001   | 1                                       | 0.0001  | 100%   | 0.1          | 80%  | 0.00035   | 80%  | 2.1  | E+01                             | 7.8E+00 | 2.0E+05   |   |                                       | 5.7                                      | 6  |       |

NA Pathway not of significance for chemical assessed (refer to Appendix A for chemical-specific details)

| Oral (TRVo)<br>(mg/kg/day) <sup>-1</sup> (GAF)<br>(unitless)Dermal (SFd)<br>(mg/kg/day) <sup>-1</sup> BAo (%)Factor (DAF)<br>(unitless)Value<br>Inhalation<br>(mg/m) <sup>-1</sup> (TR)Soil<br>Ingestion<br>(eqns 4 and 5)Dermal<br>(eqns 7<br>and 8)Dust<br>(eqns 7<br>and 8)HIL<br>(mg/m) <sup>3</sup> Threshold (to 1 or<br>2 s.f.) (mg/m)(mg/kg) (eqn 2 for<br>relevant pathways)Complete (mg/m)<br>(mg/m)Threshold (to 1 or<br>2 s.f.) (mg/m)(mg/kg) (eqn 2 for<br>relevant pathways)Complete (mg/m)<br>(mg/m)Complete (mg/m)<br>(mg/m)HIL<br>(mg/m)Threshold (to 1 or<br>2 s.f.) (mg/m)(mg/kg) (eqn 2 for<br>relevant pathways)Complete (mg/m)<br>(mg/m)Complete (mg/m)Complete (mg/  | Non-Threshold Effects - Lifetime Exposures [young child and adult] |                           |            |                           |                     |              |  |                                    |  |        |             |                       |          |                      |                 |                    |                        |       |
|--|--|---------------------------|------------|---------------------------|---------------------|--------------|--|------------------------------------|--|--------|-------------|-----------------------|----------|----------------------|-----------------|--------------------|------------------------|-------|
| Oral (TRVo)<br>(mg/kg/day)^1(GAF)<br>(unitless)Dermal (SFd)<br>(mg/kg/day)^1BAo (%)Factor (DAF)<br>(unitless)Value<br>Inhalation<br>(TRV1)<br>(mg/m)^1(TR)Soil<br>Ingestion<br>(eqns 4 and 5)Dermal<br>(eqns 7<br>and 8)Dust<br>(eqns 10<br>and 11)Threshold (to 1 or<br>(mg/m3)<br>(eqns 13 and<br>14)(mg/kg) (eqn 2 for<br>relevant pathways)Constrained<br>(mg/kg) (eqn 2 for<br>relevant pathways)Constrained<br>(eqns 13 and<br>14)TCE<br>vinyl chloride<br>benzo(a)pyrene0.00.0041E-05NANANA4.2E+0040.00.00.004TCE<br>vinyl chloride<br>benzo(a)pyrene0.510.514%0.0131.43E-011E-05NANANA1.9E+031.9E+031.9E+031.9E+031.0E+05 </th <th></th> <th>Toxicity</th> <th>GI</th> <th>Non-Threshold</th> <th>Oral</th> <th>Dermal</th> <th></th> <th>Toxicity</th> <th></th> <th>Target</th> <th>Pathwa</th> <th colspan="3">Pathway Specific HILs</th> <th>Derived Interim</th> <th>Derived Soil HIL</th> <th>Derived Soil HIL (to 1</th> <th>Notes</th>  |  | Toxicity                  | GI         | Non-Threshold             | Oral                | Dermal       |  | Toxicity                           |  | Target | Pathwa      | Pathway Specific HILs |          |                      | Derived Interim | Derived Soil HIL   | Derived Soil HIL (to 1 | Notes |
| (mg/kg/day)^{-1}(unitless)(mg/kg/day)^{-1}(unitless)(unitless)(unitless)(unitless)Inhalation<br>(TRV1)<br>(mg/m3)^{-1}Ingestion<br>(eqns 4 and 5)(eqns 7<br>and 8)(eqns 10<br>and 11)(mg/m3)<br>(eqns 13 and 14)2 s.f.) (mg/m3)<br>(eqns 10<br>(eqns 13 and 14)2 s.f.) (mg/m3)<br>(eqns 10<br>(eqns 10)<br>(eqns 10<br>(eqns 10<br>(eqns 10)<br>(eqns 10<br>(eqns 10<br>(eqns 10)<br>(eqns 10<br>(eqns 10)<br>(eqns 10<br>(eqns 10)<br>(eqns 10<br>(eqns 10)<br>(eqns 10<br>(eqns 10)<br>(eqns 10<br>(eqns 10)<br>(eqns 10) <b< th=""><th>Compound</th><th><b>Reference Value</b></th><th>Absorption</th><th>Slope Factor</th><th>Bioavailability</th><th>Absorption</th><th></th><th>Reference</th><th></th><th>Risk</th><th colspan="2">(mg/kg)</th><th>Vapour</th><th>Soil Gas IL -</th><th>(not rounded)</th><th>or 2 s.f.) (mg/kg)</th><th></th></b<> | Compound   | <b>Reference Value</b>    | Absorption | Slope Factor              | Bioavailability     | Absorption   |  | Reference                          |  | Risk   | (mg/kg)     |                       | Vapour   | Soil Gas IL -        | (not rounded)   | or 2 s.f.) (mg/kg) |                        |       |
| Image: series of the series  |  | Oral (TRV <sub>0</sub> )  | (GAF)      | Dermal (SFd)              | BA <sub>0</sub> (%) | Factor (DAF) |  |                                    |  | (TR)   | Soil        |                       |          |                      |                 |                    |                        |       |
| Image: style   |  | (mg/kg/day) <sup>-1</sup> | (unitless) | (mg/kg/day) <sup>-1</sup> |                     | (unitless)   |  |                                    |  |        | Ingestion   | (eqns 7               | (eqns 10 | (mg/m <sup>3</sup> ) | 2 s.f.) (mg/m3) | relevant pathways) |                        |       |
| TCE         O  |  |                           |            |                           |                     |              |  | (TRV <sub>I</sub> )                |  |        | (eqns 4 and | and 8)                | and 11)  | (eqns 13 and         |                 |                    |                        |       |
| vinyl chloride         one   |  |                           |            |                           |                     |              |  | (mg/m <sup>3</sup> ) <sup>-1</sup> |  |        | 5)          |                       |          | 14)                  |                 |                    |                        |       |
| benzo(a)pyrene 0.5 1 0.5 14% 0.013 1.43E-01 1E-05 1.2E+03 2.0E+02 4.0E+05 173.9 <b>200</b> 1   | TCE  |                           |            |                           |                     |              |  | 0.004                              |  | 1E-05  | NA          | NA                    | NA       | 4.2E+00              | 4               |                    |                        |       |
|  | vinyl chloride   |                           |            |                           |                     |              |  | 0.0088                             |  | 1E-05  | NA          | NA                    | NA       | 1.9E+00              | 1.9             |                    |                        |       |
| benzo(a)pyrene (Early-Life) 0.5 1 0.5 14% 0.013 1.43E-01 1E-05 2.8E+02 7.4E+01 1.5E+05 58.8 <b>60</b> 1  |  | 0.5                       | 1          | 0.5                       | 14%                 |              |  |                                    |  |        |             |                       |          |                      |                 | 173.9              | 200                    | 1     |
|  | benzo(a)pyrene (Early-Life)  | 0.5                       | 1          | 0.5                       | 14%                 | 0.013        |  | 1.43E-01                           |  | 1E-05  | 2.8E+02     | 7.4E+01               | 1.5E+05  |                      |                 | 58.8               | 60                     | 1     |

NA Pathway not of significance for chemical assessed (refer to Appendix A for chemical-specific details)
 1 Refer to Appendix A for discussion on different calculations conducted for benzo(a)pyrene and basis for HIL adopted

